

# Ham Hum

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## Field Day Network Saves the Day

This years Field Day included the addition of a mesh network. What is a mesh network? It's a network configuration where each node relays data for the network. You can think of it as a packet digipeater or a linked repeater system, but in this case the network determines the best pathway between the node and the destination. It will also automatically identify when a node enters or leaves the network and will adjust the pathways accordingly.

The network put together by Justin KE0BPH, Adam KD0MMG, Mary NOTRK, Steve NOUP and Kevin KA0VNY was primarily made up of a typical consumer grade Linksys wireless router; the exact type that many of you probably use at home. These routers have had their firmware replaced with the Broad Band Ham Net (BBHN) firmware developed by hams for ham. This type network allowed for a solid connection between each shack even as they were spread about the grounds of the Douglas County Crime Lab.



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### AUGUST MEETING:

The next meeting will be held on *Friday, Aug 14th, 7:00 PM, Red Cross Bldg, 81st & Spring Streets, Omaha, NE.*

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All shacks that were on the network and running N3FJP's Field Day software not only updated each contact to the central database, but also every 15 minutes made a backup locally of the complete log. The redundancy of the network and the well thought out programming behind the chosen logging software proved to be a life saver.

Sunday morning, the computer used for logging at the 15 meter shack failed to boot due to a hardware failure. But the logs were not lost, they were all safely on the server, and 7 other computers. It was a simple task for the IT department to put another computer at the 15 meter shack and they were back in business and no contacts lost.

Job well done to the "IT Department" for saving a full day's work with their mesh network.



## **Veep Speaks**

For our August Program our President , Adam KD0MMG and Mary N0TRK and others in the group will discuss the Mesh network, made up of computer network routers that was used by the club for our Field Day. This very clever network allowed each logging computer at our nine stations to communicate with each other. Each operator could see what contacts each other station was making which was one of the networks many features. To find out more how the system worked and how it saved our field day be sure to attend the August meeting. Our thanks goes out to the group for providing this high tech, leading edge technology.

*Mitch WBØGBI, Vice President AARC*

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# *Saturday Night Coffee and Conversation*

**Brian KD0SVD**

Was a pretty good time at Village Inn this past month. Mary NOTRK, Pat KOCTU, Bill DOSVZ, Kevin KAOVNY, John WBOCMC, Joe KONEB, and myself Brian KD0SVD. Later, Chris NORIS showed up and we had a full table. Joe KONEB brought in a small kit he put together, a very small, 5 watt, CW transceiver, for 40 Meters. I was not able to get a picture of it.

Pat shared some pictures of his bicycle, with his lighting system he used during the Omaha Owl Ride. See more at: <https://www.facebook.com/Owlride/photos/gm.939257219450426/10150588690974963/?type=1&theater>

The AARC Coffee get together is held at the Village Inn restaurant at the southeast corner of 108th and L Streets in Omaha on the third Saturday of the month starting at 6:30 PM. Everyone is invited.



## Club Meeting Minutes — July 10, 2015

The meeting was called to order at 7:03 PM by the Vice President Mitch. WB0GBI by saying the Pledge of Allegiance followed by introductions by name and call. There were 25 attendees.

Officers and Board members present included: Mitch, WB0GBI; Dave, N0JSB; Bill, WA9ASD and Barb KC0HLB.

**Secretary's Report** - Bill, WA9ASD - A motion was made by Tom, WD0BFO, seconded by Mary, N0TRK to accept the minutes of the June club meeting minutes as published in Ham Hum. Passed unanimously.

**Treasurer's Report** - Dave, N0JSB - In the month of June there were deposits of \$14 for meeting refreshments, \$20 from dues payments and a donation by KD0MMG of \$5, a payment from Amazon Smiles of \$5.82 and \$55 from the sale of Field Day T-shirts for a total of \$99.82. Payments consisted of \$89.75 for the purchase of Field Day T-shirts, \$101.66 for the Field Day Port-A-Potty, \$13.45 for meeting refreshments, \$224.60 for books for the Technician license class, \$420.65 for Flea-Esta prizes and a \$3.00 bank fee for a total of \$853.11. This leaves the balance of all the club accounts at \$21,530.40.

**President's Report** - Adam, KD0MMG - not present

**Vice President's Report** - Mitch, WB0GBI - Adam passed along a brief Field Day report on the logging network. By the use of donated laptops and the mesh network all logs were stored on a server which saved the 15 meter station contacts when their laptop crashed. No data was lost. This network was put together by Mary, N0TRK, Adam, KD0MMG, Justin, KE0BHP and Kevin, KA0VNY.

Tonight's program will be a mini swap meet in the parking lot.

### Public Service

### ARES/SATERN/COMMUNITY EVENTS

**OMMRS** - Mary, N0TRK - The next training session will be the 3rd Tuesday in August at the Salvation Army facility.

**Community Events** - Pat, K0CTU - The Corporate Cup will be September 13 and volunteers are needed to cover street crossings.

**Education Committee** - Mary, N0TRK - The Technician class has 10 students; about 1/2 are women and there is one 15 year-old and one 18 year-old. Bill, WA9ASD announced that there will be a General Class study group meeting at the Red Cross on Saturday afternoons at 1 PM starting August 1. This will be an informal class to work towards passing the General Class license exam.

**Membership Committee** - Mary, N0TRK - We have members. Mary also announced that she has some dues payments at home.

### **Publications/Web Services**

Ham Hum - Brian, KD0SVD - We will be adding return addresses to the mailed newsletters to collect information about bad addresses. Brian also thanked Bill, KC0SVZ for assistance with the Ham Hum. Brian wanted to know what to do with other club's newsletters he receives. The answer was to use anything he likes as fill for Ham Hum.

**Web Site** - Mary, N0TRK - The club's web site is up and there were a couple of mentions of the club on Twitter.

**Repeater Committee** - John, WB0CMC - It's working.

**Field Day** - Adam, KD0MMG and Fred KB0LF - The club score is about 6,900 or 7,000 points which is a club record for at least the last 10 years and is probably the highest score in the state of Nebraska.

The antenna trailer was a great help for 20 meters SSB. The 6 meter opening was a big help. On CW, Jim had about 430 contacts. Thanks to Kevin, KA0VNY for the food; pizza, chicken and others. We a visitor from Iowa and the ARRL Nebraska Public Information Officer also visited. We had good scoring, good visitors and good members. There was good separation of the stations and antennas and the antenna trailer was used on 20 meters, 15 meters and 10 meters.

Fred presented some graphical information on the contact volume, ham population density and the predicted antenna patterns with our contact volume. It worked.

**QSL and Technical Committee** - Eddy, K0IL - With 340 contacts on Museum Ships weekend are special QSL cards in order? Kevin, KA0VNY made a motion to get special cards printed, seconded by Jim, KA0KCV. Motion passed unanimously.

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## **Minutes (Continued)**

**Courtesy Committee** - Bill, KE0XQ - The club sent a cards to W0HLD and WA9ASD.

**Trailer/Equipment Committee** - Mary, N0TRK - The N6KVA trailer is at her house.

**Public Awareness** - Jim, KA0KCV, club P.I.M.P. - The Arrows to Aerospace event will occur in Bellevue on August 15. They need volunteers and interested people should contact Jim, KA0KCV who will re-direct their contact to the organizer.

John, WB0CMC said the Benson Farmers Market could use a ham radio table.

**Transmitter Hunt** - The transmitter hunt will be on Sunday July 12 at 3 PM starting from Memorial Park.

Bill, WA9ASD will be hiding the transmitter. Come out and join us - there is always room for someone to ride along.

**Flea-Esta** - Chris, N0CALL - We need volunteers for both Friday night and Saturday. We have the drawing prizes and the grand prize is a Yaesu FT-60 HT. D & L Antennas will be there along with Flatwater Trading Post. The scheduled date is September 12 at the Sarpy County Fairgrounds.

**Old Business** - none

**New Business** - none

## **Announcements -**

There are door prizes and raffle tickets available.

Fred, KB0LF announced that there will be a rare counties special event activity on October 3 and 4. The rules are on the QCWA website. Activity will be mainly on 15 meters and 20 meters near the County Hunters frequencies.

Bill, WA9ASD announced that the Pioneer Amateur Radio Club will be having their annual swap meet on Saturday July 12 in North Bend.

Coffee and cookies are available in the break room before the program. Please donate to help offset the cost of these treats.

Also, support you local repeater. The club accepts donations for any area repeater and forwards the money to the appropriate owner.

At 7:44 PM a motion was made by John, WB0CMC to end the meeting. So moved.

Bill WA9ASD, Secretary AARC

## Club Officers & Board Members

President	Adam Kavan	KDØMMG	president@aksarbenarc.org
Vice President	Mitch Saure	WBØGBI	vicepresident@aksarbenarc.org
2014 Secretary	Bill True	WA9ASD	secretary@aksarbenarc.org
2014 Treasurer	Dave Rice	NØJSB	treasurer@aksarbenarc.org
2014-2016 Director	Russ Rosenquist	NØMNW	board@aksarbenarc.org
2014-2016 Director	Barb Westcott	KCØHLB	board@aksarbenarc.org

## Club Committees

Immediate Past President	Corby Krick	KØSKW	board@aksarbenarc.org
Courtesy Committee	Bill McCollum	KEØXQ	courtesy@aksarbenarc.org
Education	Adam Kavan	KDØMMG	education@aksarbenarc.org
Field Day			fieldday@aksarbenarc.org
Flea-Esta	Chris Rice		flea@aksarbenarc.org
Membership	Mary Joseph	NØTRK	membership@aksarbenarc.org
Monday Night .94 Net	Rich Swig	WAØZQG	wa0zqg@hotmail.com
P.I.M.P.	Jim Westcott	KAØKCV	pr@aksarbenarc.org
Prizes	Rollie Miller	ABØNN	prizes@aksarbenarc.org
Public Service/Emergency	Jim Westcott	KAØKCV	pr@aksarbenarc.org
Publications	Brian Pitchanau	KDØSVD	hamhum@aksarbenarc.org
QSL Manager & Technical	Ed Edwards	KØIL	qslmanager@aksarbenarc.org
Special Events Coordinator	Pat Joseph	KØCTU	community_service@aksarbenarc.org
Technical Assistance	Ed Edwards	KØIL	technical@aksarbenarc.org
Web Services	Mary Joseph	NØTRK	web_master@aksarbenarc.org

## Repeater Committee

Chairman	john Gebuhr	WBØCMC	repeater@aksarbenarc.org
Vice Chairman	Steve Schmitz	NØUP	repeater@aksarbenarc.org
Control Operator	Mary Joseph	NØTRK	repeater@aksarbenarc.org
Club Call sign Trustee	Corby Krick	KØSKW	trustee@aksarbenarc.org

## Other Contacts

ARRL Midwest Director	Rod Blocksome	KØDAS	k0das@arrl.org
ARRL Midwest Vice-Director	Art Zygielbaum	KØAIZ	k0aiz@arrl.org
EC Douglas County	Steve Schmitz	NØUP	dcares@aksarbenarc.org
EC Sarpy County	Dennis Mitchell	KCØYKN	
Exams/Vol. Council	Brian Zdan	KMØY	testing@aksarbenarc.org
NE Section Manager	Matt Anderson	KAØBOJ	ka0boj@arrl.org
Official Observer Coordinator	Bill McCollum	KEØXQ	oo_coordinator@aksarbenarc.org

# IT's Picnic Time

Come Join Us at Zorinski at Picnic Shelter #3

Sunday, September 20th at 4:00PM

Open to All Members and Family!. Please let us know how many people are coming at:

[picnic@aksarbenarc.org](mailto:picnic@aksarbenarc.org)

Hot Dogs Hamburgers and More

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## EQUIPMENT ADS

### **Dentron MT-2000A Antenna Matching Unit**

Legal limit HF antenna matching unit with 4:1 balun and bypass. No metering. See complete description here :

<http://wireless-girl.com/Projects/Transmatches/DentronMT2000A.html>  
\$150 or best offer. Contact: [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org)

### **HF Amplifier - Legal Limit - 80, 40, 20, 15, 10 meters.**

Finest components in a superb home-brew amplifier. Built right from the Eimac/W6SAI design. Requires a 3-1000Z tube. Power supply is disassembled consisting of motorized variac for setting HV, broadcast quality plate transformer, diode stack, swinging choke, and filter capacitors. Includes metering panel for setting and monitoring line voltage and plate voltage, line circuit breaker, etc.

RF Deck is stand-alone with vacuum variable w/ turns counter, air variable, B & W tank circuit coupled to band specific input matching circuits, meters for plate current, drive level and directional coupler and Dow-Key transfer relay. 30"H x 29"D x 21"W See Pictures at: <http://www.aksarbenarc.org> \$700 or best offer.— We deliver. Contact: [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org)

### **HF Dummy Load**

You don't have a transmitter that will exceed this load's rating. Unit consists of 12 X 600 Ohm 375 non-inductive resistors in parallel with UHF connector. Not enclosed. 4,500 watts continuous rating. 21"L x 6 1/2" D See pictures at:

<http://www.aksarbenarc.org>.  
\$225 or best offer contact: [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org)



## EQUIPMENT ADS

(Continued)

### **Non-Inductive Resistors**

600 Ohm, 375 watts continuous. 1" X 18" ceramic. Good for high power rhombic or Beverage antenna termination. Six available. See picture at:

<http://www.aksarbenarc.org>.

\$20 each Contact: [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org).

### **Low Speed 120VAC Reversible Motor**

Operates at 11 or 23 RPM in either direction. 1/4" output shaft. Simple to wire up. Includes capacitor for controlling direction. Great for a roller inductor or air variable in a remote tuner. Four available. See picture at:

<http://www.aksarbenarc.org>.

\$25 each Contact: [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org)

### **Samsung CLP-510 - Two Printers for the Price of One**

Industrial strength color laser printer. One works good the other burned-up its line cord - unknown problem. Includes documentation, ink cartridges, ink cartridge refill tools and instructions.

\$65 for both or best offer. Contact [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org)

### **Complete HF Setup**

Kenwood TS-870S AT (with DSP) HF Amateur band transceiver in excellent condition with the original manual, matching PS-52 Power Supply, SP-31 speaker, and MC-80 desk mic. A great looking and performing radio photos available at:

<http://www.aksarbenarc.org> or email [equipment@aksarbenarc.org](mailto:equipment@aksarbenarc.org) for details

# Area Nets

## Monday

7:00 PM 145.290 South-West Iowa ARES Glenwood, IA.

8:00 PM 144.250 NE Missouri SWOT.

9:00 PM 146.940 AARC Chat Net. Ak-Sar-Ben ARC Omaha, NE.

## Tuesday

7:00 PM 147.360 QCWA Net, Chapter 210 (seasonal, October through March).

8:00 PM 50.200 6m SSB Net.

9:00 PM 145.310 Washington Co. ARES Washington Co, NE.

## Wednesday

7:00 PM 146.670 Dodge Co. ARES Dodge Co, NE.

7:30 PM 7.122 CW Four State QRP Comfortable Net.

8:00 PM 3.564 CW Four State QRP Comfortable Net.

8:00 PM 145.310 Saunders Co. ARES Saunders Co, NE.

8:30 PM 7.122 CW Four State QRP Comfortable Net.

9:00 PM 3.580.5 PSK Four State QRP Comfortable Net.

9:00 PM 146.820 Pottawattamie County ARES Council Bluffs, IA.

## Thursday

8:30 AM 7.122 CW Four State QRP 40M Morning Net.

7:30 PM 145.310- Lincoln/Omaha SATERN Net. Ashland, NE.

8:00 PM 28.350 10-Meter Net.

8:00 PM 144.250 2-Meter SSB Net.

8:00 PM 146.360 Heartland DX Association.

9:00 PM 28.305 10-Meter Net.

## Saturday

12:00 PM 146.82 Swap Net Council Bluffs, IA.

8:30 PM 3.921.000 QCWA Chapter 20.

## Sunday

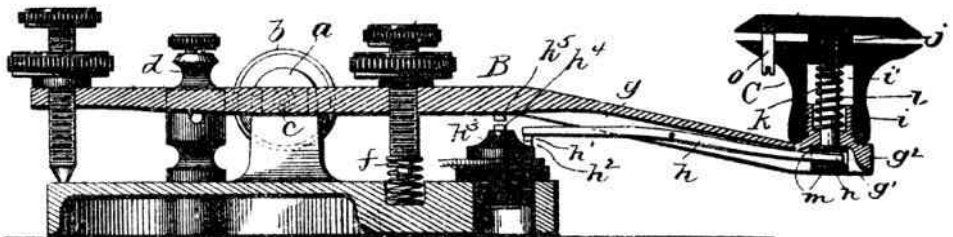
8:00 AM 3.902.500 Swap Net.

8:30 AM 3.896.500 3900 Club.

8:30 PM 443.925+ (103.5 tone) IRLP Net.

9:00 PM 146.940- Douglas Co. ARES net, KØUSA repeater.

Please let us know of any updates or corrections to the above.



## Calendar

- Aug 14** 7:00 PM AARC Meeting Red Cross Building, 81st & Spring St, Omaha, NE
- Aug 15** 6:30 PM AARC Coffee and Conversation—Village Inn 108th and L St, Omaha
- Aug 16** AARC Rabbit Hunt (Transmitter Hunt) — Memorial Park, 57th and Underwood, Omaha, NE—Starts promptly at 3:00PM Be early!
- Aug 19** 7:00 PM Heartland Hams Meeting
- Aug 20** 7:30 PM Bellevue ARC Meeting
- Aug 25** 6:30 PM License Exam at Council Bluffs
- Aug 27** 7:30PM PARC and SWIARC meetings (Separate locations)
- Aug 29 Bellevue ARC FLEAESTA POC LaDonna Clark 402-291-6774
- Sep 03 Lincoln ARC License Exam 6:30—8:00PM
- Sep 11 7:00PM AARC Meeting Red Cross Buling, 81st & Spring St, Omaha, NE

For more details and the latest updates, see the *Calendar* section of the AARC web site (<http://www.aksarbenarc.org/>). If you know of an event of interest to other hams and want to see it here, please contact the *Ham Hum* editor or one an AARC officer.

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## Transmitter Hunt

The monthly Fox Hunt (AKA Transmitter Hunt) saw 3 teams assemble at the starting point: KOCTU with NOTRK and KA0VNY; NOJSB with Chris and Justin, KE0BHP with another ham new to the area. The hunt started on time with all stations able to hear the transmitter on the first or second transmission. The Lazy Fox tried to play a mind game with Dave, NOJSB who won the hunt 2 months ago. I hid in the same spot, thinking Dave would say to himself, “He wouldn’t hide in the same spot”. Bad idea on my part. In less than an hour into the hunt Dave came tooling along to the parking lot of Bogey’s Sports Bar, right where I hid in May at about 105th and Bedford overlooking I-680. He explained that he remembered the spot because it was high and unobstructed in all directions and would be a good place to take a reading, So much for mid games. After more than an our Pat, KOCTU called in for a hint and it was told to review the hunt results from May. (Continued on page 14)

## Contest Calendar

For more details on contests visit: [www.hornucopia.com/contestcal/contestcal.html](http://www.hornucopia.com/contestcal/contestcal.html)

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RSGB 80m Club Sprint, CW	1900Z-2000Z, Aug 12
QRP Fox Hunt	0100Z-0230Z, Aug 14
NCCC RTTY Sprint	0145Z-0215Z, Aug 14
NCCC Sprint Ladder	0230Z-0300Z, Aug 14
SARTG WW RTTY Contest	0000Z-0800Z, Aug 15 and 1600Z-2400Z, Aug 15 and 0800Z-1600Z, Aug 16
ARRL 10 GHz and Up Contest	0600 local, Aug 15 to 2400 local, Aug 16
Russian District Award Contest	0800Z, Aug 15 to 0800Z, Aug 16
Keyman's Club of Japan Contest	1200Z, Aug 15 to 1200Z, Aug 16
North American QSO Party, SSB	1800Z, Aug 15 to 0559Z, Aug 16
Feld Hell Sprint	2000Z-2159Z, Aug 15
CVA DX Contest, CW	2100Z, Aug 15 to 2100Z, Aug 16
SARL HF Digital Contest	1300Z-1630Z, Aug 16
ARRL Rookie Roundup, RTTY	1800Z-2359Z, Aug 16
Run for the Bacon QRP Contest	0100Z-0300Z, Aug 17
Phone Fray	0230Z-0300Z, Aug 19
CWops Mini-CWT Test	1300Z-1400Z, Aug 19 and 1900Z-2000Z, Aug 19 and 0300Z-0400Z, Aug 20

QRP Fox Hunt	0100Z-0230Z, Aug 21
NCCC RTTY Sprint	0145Z-0215Z, Aug 21
NCCC Sprint Ladder	0230Z-0300Z, Aug 21
Hawaii QSO Party	0400Z, Aug 22 to 0400Z, Aug 24
Ohio QSO Party	1600Z, Aug 22 to 0400Z, Aug 23
CVA DX Contest, SSB	2100Z, Aug 22 to 2100Z, Aug 23
SKCC Sprint	0000Z-0200Z, Aug 26
Phone Fray	0230Z-0300Z, Aug 26
CWops Mini-CWT Test	1300Z-1400Z, Aug 26 and 1900Z-2000Z, Aug 26 and 0300Z-0400Z, Aug 27
RSGB 80m Club Sprint, SSB	1900Z-2000Z, Aug 27
QRP Fox Hunt	0100Z-0230Z, Aug 28
NCCC RTTY Sprint	0145Z-0215Z, Aug 28
NCCC Sprint Ladder	0230Z-0300Z, Aug 28
Feld Hell Sprint	0000Z-2359Z, Aug 29
ALARA Contest	0400Z-1359Z, Aug 29 and 0400Z-1359Z, Aug 30
YO DX HF Contest	1200Z, Aug 29 to 1200Z, Aug 30
W/VE Islands QSO Party	1200Z, Aug 29 to 0300Z, Aug 30
SCC RTTY Championship	1200Z, Aug 29 to 1159Z, Aug 30
Kansas QSO Party	1400Z, Aug 29 to 0200Z, Aug 30 and 1400Z-2000Z, Aug 30
North American SSB Sprint Contest	0000Z-0400Z, Aug 30
SARL HF CW Contest	1300Z-1630Z, Aug 30

# TRANSMITTER HUNT (Continued)

After a few rude comments about not having time to read old news, the team eventually arrived about 1 1/2 hours after the start. At this point I called Justin and told him his finishing position had been determined. Then he told me where he was and I told him all he had to do was go straight South about 6 blocks to find us.

Join us on August 16 at 3 PM for more transmitter hunting fun.

Bill WA9ASD

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## JULY Door Prizes

**Jim, WOBK**, was the winner of a pair of Forceps and some Magic furniture moving pads,

**Dave, NOJSB**, received a pair of Helping Hands complete with a Magnifying Glass.

**Russell, NCSY** (No Call Sign Yet), was the winner of a bag of Zip Ties.

**Mitch, WBOGBI**, won some bunji cord tie downs and a new Tool Box .

**The MR. Ree door prize** was won by **Russell Hilton**, NCSY (No Call Sign Yet, but it's In The Mail) A Not So New, Honeywell Keypad.

**The Brown Bag Award** was picked up by **Dave, NOJSB**. I don't know what it was. One look and he ran out the door to see what stuff was in the parking lot in everyone's trunks. My Bad.

## Museum Ships Weekend –

Last minute arrangements made it possible for K0USA to be on the air from the USS Hazard for the annual Museum Ship's Weekend held on July 6<sup>th</sup>. Freedom Park is not yet open so access was limited, and at the time the Hazard was still undergoing the effort straighten her after the 2011 floods left her listing about 7 degrees to port.

Club member Peter KE7RDM arranged for members to setup and operate at the park. With the threat of rain, and not being able to board the ship, a quick decision that morning was made to setup in the park's gazebo. A dipole was strung between the upper level of the gazebo and one of the large ship propellers and the operators got on 20 meters about 11:00 am.

8 hours later, at 7:00 pm when the even ended, they had reached 340 stations including a DX conversation to Brussels Belgium. This year operators included Peter KE7RDM, Pat K0CTU, Kevin KA0VNY, Ronnie WD0GCN, Ryan KD0FJQ and Mary N0TRK

Next year the plans are to operate from the renovated radio room on board the ship, and perhaps to operate during the entire 24 hours and to add more bands to the operation.

Museum Ships weekend is an annual amateur radio operating event, in which HAMS operate on the amateur band waves from retired maritime vessels, both military and commercial, from all over the world, to enable the amateur community at large the opportunity to contact these historic museum entities and receive written confirmation of the contact. Maritime museums, maritime memorials, historic aircraft, and other appropriate entities also participate. In 2015 there were 104 ships that participated in the event.



## AARC Equipment Loaner Program

Ak-Sar-Ben Amateur Radio Club members who are in good standing and possessing an active FCC issued US Amateur Radio License may borrow one of two Icom HTs. Each radio is a basic two meter transceiver with an NiMH battery and charger. It is perfect for when you need to borrow a rig to help with that community service event, or if you are itching to get on the air as you shop for your new radio.

You can check out a radio for one month at any Club meeting and return it at the next. Alternately, you can contact the equipment committee at [equipment-committee@aksarbenarc.org](mailto:equipment-committee@aksarbenarc.org). For more details, see the AARC web page .

*de AARC Equipment Committee*

### ***Address Change?***

If you've changed your mailing address, or would prefer to receive the *Ham Hum* via email, please contact Mary NØTRK (Membership) or Brian KDØSVD (Publications) with your new information.

### AARC on the Web

**Club Web Site:** <http://www.aksarbenarc.org/>

**Facebook:** <https://www.facebook.com/aksarbenarc>

**Yahoo! Groups:** <http://groups.yahoo.com/group/AKSARBENTalk/>