

Ham Hum

September 2015 Volume LXV,

Network Mesh Broadband over Ham Radio

Because of the continuing interest in how the “Mesh” worked during the field days weekend , Mary NOTRK, Pat KOCTU, Adam KDOMMG, provided an elaborate demonstration as well as a detailed description of just how it worked at our August general membership meeting. Converting internet routers into nodes forming an independent network for high speed multi media. In addition to passing data, such as the contact logs during the Field Day week end, they demonstrated camera monitoring with infrared systems that you can see in low light conditions as well as telephone communications. Logon to the AARC web site and view the entire presentation which was video recorded by Russ, NONMW.



SEPTEMBER MEETING:

The next meeting will be held on *Friday, Sep 11, 7:00 PM, Red Cross Bldg, 81st & Spring Streets, Omaha, NE.*

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Saturday Night Coffee and Conversation

Brian KD0SVD

A nice turnout at the Village Inn this past month for Coffee, Conversation and Food; present were Mary N0TRK, Pat KOCTU, Bill KC0SVZ, Kevin KA0VNY, Shelley KC0KAY, Andrew Schmitz, Steve N0UP, and myself Brian KD0SVD. Some of the topics of discussion were the up coming Market to Market relay race on 3 Oct 2015. In addition to Slug Bugs and Legos, Hot Wheels, Prizes in cereal boxes and cracker jacks. But the thing that seemed to draw the most attention was the television which was airing a CNN News Recap from the 1970's. A lot of remember when type information.

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.



The AKSARBEN Amateur Radio Club

FLEA—ESTA

SEPTEMBER 12th 2015

Springfield, NE at the Sarpy County Fair Grounds

Inside the Air Conditioned 4-H Building



Club Meeting Minutes — August 14, 2015

The meeting was called to order at 7:02 PM by the President Adam, KD0MMG by saying the Pledge of Allegiance followed by introductions by name and call. There were 35 attendees.

Officers and Board members present included: Adam, KD0MMG, Mitch, WB0GBI; Dave, N0JSB; Bill, WA9ASD and Russ, N0MNW.

Secretary's Report - Bill, WA9ASD - Pat, K0CTU noted that the call sign for Tom who made the motion to accept the club meeting minutes in last month's minutes should have been N0STN. A motion was made by Pat, K0CTU, seconded by Rollie, AB0NN to accept the minutes of the July club meeting minutes as revised. Passed unanimously.

Treasurer's Report - Dave, N0JSB - In the month of July there were deposits of \$21 for meeting refreshments, \$101 from equipment sales and \$150 from the sale of Technician Class License manuals for a total of \$272. Payments consisted of \$302.20 for Field Day gas and food, \$19.01 for meeting refreshments, \$329.30 for Ham Hum supplies, \$531.59 for antenna trailer materials and a \$3 bank fee for a total of \$1,185.10. This leaves the balance of all the club accounts at \$20,621.16.

President's Report - Adam, KD0MMG - He thanked everyone for coming to the meeting. We had a good Field Day turn-out. Our Technician class just finished and the General Class Study Group is beginning in a couple of weeks. Thanks to everyone for participating and we're having fun.

Vice President's Report - Mitch, WB0GBI - Tonight's program will be on the use of the MESH wireless logging network at Field Day. Public Service ARES/SATERN/COMMUNITY EVENTS

Community Events - Pat, K0CTU - The Corporate Cup will be on Sunday, September 13 and volunteers are needed to cover street crossings. There will be a 10K run that should be over by 1 PM.

On October 3 the Market-to-Market Relay will be 3 miles shorter due to changes in the course.

AREA/OMMRS - Steve, N0UP - There will be a combined training session on August 18 at the Salvation Army facility.

There is a SATERN net that operates on 7.265 MHz on Saturday mornings.

Education Committee - Mary, N0TRK - The Technician class is done and all of the students who tested passed.

The General Class License Study Group will begin meeting on August 1st on Saturday afternoons at the Red Cross from 1 PM until 4 PM. This will be an informal class to work towards passing the General Class license exam.

Membership Committee - Mary, N0TRK - We have applications for membership for Robert Hutson, KE0FDJ and Russ Hilton, KE0FDK. There was a motion by Dan, N0POT, seconded by Norm, WA0JYD to accept these applicants as club members. Passed unanimously.

Publications/Web Services

Ham Hum - Brian, KD0SVD - Please send material for Ham Hum as .txt file attachments via e-mail.

Web Site - Adam, KD0MMG - We have stuff and it's being updated.

Repeater Committee - John, WBOCMC - It's still working.

Field Day - Adam, KD0MMG and Fred KB0LF - It's still over.

QSL and Technical Committee - Eddy, K0IL - no report .

Courtesy Committee - Bill, KE0XQ - nothing to report

Trailer/Equipment Committee - Mary, N0TRK - Bill, WA9ASD reported that he sold a pair of 3-500Z tubes for \$100 and a book for \$1 at the Pioneer ARC flea market at North Bend. No cookbooks sold. Mary reported that she found more of them.

Public Awareness - Jim, KA0KCV, club P.I.M.P. - Pat, K0CTU will be submitting an application for a display at the Mini-Maker Fair on September 19.

Transmitter Hunt - Since Dave, N0JSB won the last transmitter hunt he will be hiding the transmitter on Sunday, August 16 at 3 PM. The transmitter hunt will begin at Memorial Park. Come out and join us - there is always room for someone to ride along.

Flea-Esta - Chris, N0CALL - We will be checking on the table count for this year. Setup will be Friday afternoon. Sign up on the sign-up sheet to help. We have 2 confirmed vendors; D & L Antennas and Flatwater Trading Post from Hastings. Mary will be doing the cooking so we'll have plenty of good food. Sarpy County Fairgrounds likes us because we clean up afterwards.

(Minutes, Continued from page 5)

Old Business - We need to follow up on the Museum Ships On The Air QSL cards.

New Business - We have received more membership applications. They are from Dalton Van Stratten, KE0FJH; Rick Ellis, W0RGE; Ronald Ridge, no call yet; Roger Ridge, KE0FJM and Brad Moran, KG7OTQ. There was a motion by Tom, N0STL, seconded by Norm, WA0JYD to accept these applicants for membership. Passed unanimously.

Announcements -

There are door prizes and raffle tickets available.

The club picnic will be Sunday, September 20 at Lake Zorinsky Park shelter number 3 at 168th street at 3:30 PM.

John, WB0CMC announced that the Benson Farmers Market will be having a tomato contest.

Terry Leahy, KD0VPF thanked the club for the card that was sent.

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 7:32 PM a motion was made by Steve N0UP 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 Zorinsky 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

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

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

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

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.

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

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

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 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

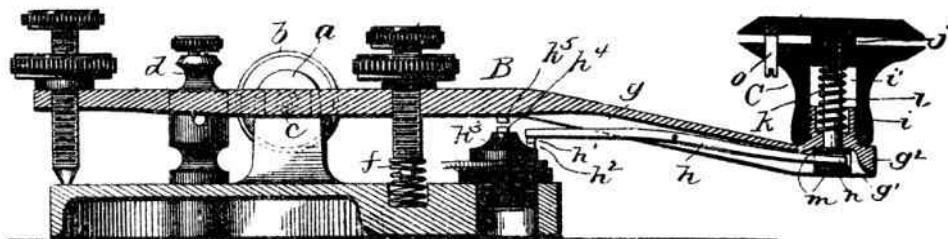
8:00 AM 3.902.500 Swap Net.

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

- Sep 11 7:00 PM AARC Meeting Red Cross Building, 81st & Spring St, Omaha, NE
- Sep 12 8:00-12:00 Noon AARC **Flea Esta Sarpy County Fair Grounds**, Springfield, NE
- Sep 13 3:00 PM AARC FOX Hunt, Memorial Park, 57th and Underwood, Omaha, NE.
- Sep 16 7:00 PM Heartland Hams Meeting
- Sep 17 7:30 PM Bellevue ARC Meeting
- Sep 19 6:30 PM AARC Coffee & Conversation at Village Inn, 108th and L St. Omaha.
- Sep 24 7:30 PM PARC Meeting, Hero's Gambino Restaurant 1900 E Military, Fremont., NE Check web site for changes <http://www.k0jfn.com>
- Sep 24 7:30 PM SWIARC Meeting, Loss Hills Chapter Red Cross, 705 N 16th St, Council Bluffs, IA
- Sep 29 6:30 PM License Testing—Omaha Area VE Team, At the American Red Cross building — 81st and Spring St, Omaha, NE

- Oct 01 6:30 PM License Testing — Lincoln ARC, The Northside Café, 2701 N 48th St, Lincoln, NE
- Oct 09 7:00 PM AARC Meeting Red Cross Building, 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.

Contest Calendar

For more details on contests visit: www.hornucopia.com/contestcal/contestcal.html

RSGB 80m Club Sprint, SSB	1900Z-2000Z, Sep 9
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 11
NCCC Sprint	0230Z-0300Z, Sep 11
Kulikovo Polye Contest	0000Z-2359Z, Sep 12
FOC QSO Party	0000Z-2359Z, Sep 12
WAE DX Contest, SSB	0000Z, Sep 12 to 2359Z, Sep 13
SARL Field Day Contest	1000Z, Sep 12 to 1000Z, Sep 13
SKCC Weekend Sprintathon	1200Z, Sep 12 to 2400Z, Sep 13
Arkansas QSO Party	1400Z, Sep 12 to 0200Z, Sep 13
Ohio State Parks on the Air	1600Z-2400Z, Sep 12
ARRL September VHF Contest	1800Z, Sep 12 to 0300Z, Sep 14
North American Sprint, CW	0000Z-0400Z, Sep 13
Swiss HTC QRP Sprint	1300Z-1900Z, Sep 13
Phone Fray	0230Z-0300Z, Sep 16
NAQCC CW Sprint	0030Z-0230Z, Sep 17
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 18
NCCC Sprint	0230Z-0300Z, Sep 18
AGB NEMIGA Contest	2100Z-2400Z, Sep 18
ARRL 10 GHz and Up Contest	0600 local, Sep 19 to 2400 local, Sep 20
SARL VHF/UHF Analogue/Digital Contest	1000Z, Sep 19 to 1000Z, Sep 20
Scandinavian Activity Contest, CW	1200Z, Sep 19 to 1200Z, Sep 20
SRT HF Contest SSB	1300Z, Sep 19 to 1300Z, Sep 20
South Carolina QSO Party	1400Z, Sep 19 to 0300Z, Sep 20

Washington State Salmon Run	1600Z, Sep 19 to 0700Z, Sep 20 and 1600Z-2400Z, Sep 20
New Jersey QSO Party	1600Z, Sep 19 to 0359Z, Sep 20 and 1400Z-2000Z, Sep 20
QRP Afield	1600Z-2200Z, Sep 19
Feld Hell Sprint	1800Z-1959Z, Sep 19
North American Sprint, RTTY	0000Z-0400Z, Sep 20
Classic Exchange, CW	1300Z, Sep 20 to 0800Z, Sep 21 and 1300Z, Sep 22 to 0800Z, Sep 23
BARTG Sprint 75	1700Z-2100Z, Sep 20
Run for the Bacon QRP Contest	0100Z-0300Z, Sep 21
144 MHz Fall Sprint	1900 local - 2300 local, Sep 21
SKCC Sprint	0000Z-0200Z, Sep 23
Pirate QSO Party	0030Z-0330Z, Sep 23
Phone Fray	0230Z-0300Z, Sep 23
CWops Mini-CWT Test	1300Z-1400Z, Sep 23 and 1900Z-2000Z, Sep 23 and 0300Z-0400Z, Sep 24
RSGB 80m Club Sprint, CW	1900Z-2000Z, Sep 24
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 25
NCCC Sprint	0230Z-0300Z, Sep 25
CQ Worldwide DX Contest, RTTY	0000Z, Sep 26 to 2400Z, Sep 27
Maine QSO Party	1200Z, Sep 26 to 1200Z, Sep 27
Texas QSO Party	1400Z, Sep 26 to 0200Z, Sep 27 and 1400Z-2000Z, Sep 27
AGCW VHF/UHF Contest	1400Z-1700Z, Sep 26 (144) and 1700Z-1800Z, Sep 26 (432)
UBA ON Contest, 6m	0700Z-1000Z, Sep 27
Classic Exchange, Phone	1300Z, Sep 27 to 0800Z, Sep 28 and 1300Z, Sep 29 to 0800Z, Sep 30
Peanut Power QRP Sprint	2000Z-2200Z, Sep 27
222 MHz Fall Sprint	1900 local - 2300 local, Sep 29
Phone Fray	0230Z-0300Z, Sep 30
CWops Mini-CWT Test	1300Z-1400Z, Sep 30 and 1900Z-2000Z, Sep 30 and 0300Z-0400Z, Oct 1

August Door Prizes

Paul, N6RBL, picked up a Repeater Directory.

Terry, KD0VPF , acquired a 100 piece Security Bit Set.

James, WBOBIK, won a 20 bin storage case.

Marvin, AE0EG, won a 12 inch tool bag.

There were some zip ties someone won , but my hearing picked up the call sign as KD0QH; which must be incorrect as it did not pull up a name in QRZ.com.

The Mr. Reeh door prize was won by **Rick, W0RGE**, A Bearcat scanner complete with crystals.

The Brown Bag Award was picked up by **Roger, KE0FJM**. A 25 foot tape measure and a screw driver set.



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. For more details, see the AARC web page .

*de AARC Equipment Com-
mittee*

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/>

The Ak-Sar-Ben Amateur Radio Club, Inc. of Omaha, Nebraska as we know it today has been around since 1945 and has been affiliated with the ARRL since that time, but there is evidence of the existence of the club dating back to the 1920s.

Today, the Ak-Sar-Ben Amateur Radio Club, is a general interest club that makes a special effort to provide communications support to many public service events such as the MS Walk, the Nebraska State Track Meet, the Market-to-Market Relay Race and the Omaha Marathon.

The club operates the **KØUSA** repeater on 146.940 MHz which is the primary repeater for the Douglas County Amateur Radio Emergency Service (ARES). The club encourages its members to be active in ARES, SATERN and with the Red Cross Disaster Services.

The club also participates in Field Day every year and members often participate in other contests through out the year using the KØUSA call sign. The club has been working with the volunteer force at Omaha's Freedom Park and recently donated the necessary funds to obtain an original TBS-6 as part of the restoration of the radio room of Museum Ship the USS Hazard. The club plans on participating annually in Museum Ships Weekend from the USS Hazard.

As part of its mission, the club also teaches classes for those wishing to obtain their amateur radio license and sponsors regularly scheduled Volunteer Examiners as part of the ARRL VEC program. Recently members of the club have taken the message about amateur radio to area science fiction conventions with a presentation of Communications in a Post-Apocalyptic World.

The Ak-Sar-Ben Amateur Radio Club has a long and a long history of community service and promotion of ham radio in the city, county and state that continues today and hopefully long into the future.