



ARRL  
Nebraska State Convention  
"End of Winter Hamfest #7"



Sponsored by the Lincoln Amateur Radio Club  
Saturday March 15<sup>th</sup> 2014

FLEA MARKET – FORUMS – FCC TESTING  
TECH DEMOS

Lancaster County Event Center  
84th and Havelock Ave., Lincoln, NE.

**HOURS**

General Adm. Saturday 8:30 am to 2:00 pm  
Flea Market table setup starting at 7:30 am Saturday

**CONFIRMED EXHIBITORS:**

Arrow Antenna, D & L Antennas,  
Creative Edge Embroidery, WBØW  
Q-ES (Quality Electronic Supply), & Others

**PROGRAMS / FORUMS**

10:00 am *Digital Modes, Bill Lyons, W1LXE*  
11:00 am *Logbook of the World, Dave Patton NN1N*  
12:00 pm  
01:00 pm *ARRL Members Meeting*

**TECHNICAL DEMOS**

Digital Modes  
PSK31 JT65  
WSPR Digital Voice

VE Exams – 10:00 am

**ADMISSION & TABLE PRICES**

Entry for 18 yrs and over is \$8.00 each & includes 1 raffle ticket. Under 18 yrs free.  
  
LARC members is \$5.00 & includes 1 - \$1.00 Raffle Ticket (LARC membership is \$15.00 / year).

Flea market tables (8 ft.) – are \$10 each.  
  
You can use PayPal by clicking the link at:  
[www.lincolnhamfest.org](http://www.lincolnhamfest.org)

**GREAT PRIZES!**

Attendance Prize Drawings every Quarter Hour  
Two Grand Prize Drawings at 2:15 pm  
For all prizes, you **MUST** be present to win  
  
General Manager – Reynolds Davis, KØGND  
Treasurer – Greg Brown, KTØK  
Secretary – Heather Poysa, KDØBXA  
(Visit [www.lincolnhamfest.org](http://www.lincolnhamfest.org) for latest updates)



**Staybridge Suites Official Convention Hotel**  
\$79 Conference Rate  
[www.staybridgesuites.com/lincolnne](http://www.staybridgesuites.com/lincolnne)

**Free Convention Parking**  
200 RV Camper Hookups

**TALK-IN KØKKV 146.16/76**  
D-Star 145.25(-)  
APRS beacon on 144.39  
Search Google MAPS.  
"Lancaster Event Center  
Lincoln NE"

BOARD MEETING NOTICE

The next AARC Board Meeting is scheduled for March 25, 2014, 6:30 PM at the Village Inn on 78th and Dodge Streets. Unless noted otherwise, Board meetings take place at that time and location on the fourth Tuesday of the month. For any changes to this schedule, check for an announcement at the next Club meeting, or on the AARC web page at <http://www.aksarbenarc.org/>.

# Ham Hum

## Winging It



Dave NØJSB and Instructograph Trainers

The speaker for the February meeting had to cancel, so the club filled in with a show-and-tell session and general chat among the members.

During the business portion of the meeting, Joe KØNEB made some announcements and then demonstrated a PixMob light hat that he'd obtained. These tuques, or "video ski hat" according to their packaging, were used at the SuperBowl during half time to turn the crowd into a giant video screen.

Joe described what they did and gave a quick rundown on how they did it. He said that the hat contains LEDs, a battery, and circuits to detect and respond to infrared light. The IR light would send coded signals to the hat and cause the LEDs to turn on and off upon command. He attempted to give a demonstration using a standard hand-held TV remote control, but unfortunately the battery in the hat had died, so it wouldn't flash. (See the *Club Meeting Minutes* starting on page 4 for further information on Joe's announcements.)

After the business meeting, the club broke for cookies, soft drinks, and general discussion. Dave NØJSB had set up a table at one end of the room with a couple of Morse Code Instructographs along with sounders and digital code readers. The Instructographs were trainers that were manufactured from 1920 to 1986. Basically a spool of punched paper tape is fed past a reader that consists of a set of brushes on one side and a metal surface on the other. When a hole in the tape passes through the reader, the brush would make contact to complete the circuit. This would cause a connected sounder or oscillator to activate, producing dihs and dahs.

(Winging It continued on page 9.)

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☞ **March Meeting: Antenna Analyzers** ☞

For the March meeting, Cam Cushing, W7CAM, will discuss the practical applications of antenna analyzers. Don't miss it.

Friday, March 14th, 7:00 PM, Red Cross Building, 81<sup>st</sup> & Spring Streets, Omaha, NE.

HAM HUM is the official newsletter of the AK-SAR-BEN Amateur Radio Club, Inc. in Omaha, Nebraska. It is printed monthly and is distributed to members of the club, local disaster officials, local electronics outlets, and editors of other ham radio newsletters.

Articles about activities of members are solicited. The subject matter must be of general interest to radio amateurs and be understandable to a significant portion of the membership. No payment will be made to contributors and submissions will be subject to the usual editorial review. Articles containing statements that could be construed as libel or slander will not be accepted. No guarantee can be made that an accepted article will be published by a certain date. Send your contributions to Ham Hum, P.O. Box 24551, Omaha, NE 68124-0551 or email [hamhum@aksarbenarc.org](mailto:hamhum@aksarbenarc.org). Please contact the editor for permission to reprint anything appearing in the Ham Hum.

### Club Officers & Board Members

President	Adam Kavan	KDØMMG	402-598-1521	<a href="mailto:akavan@gmail.com">akavan@gmail.com</a>
Vice President	Mitch Saure	WBØGBI	402-455-6205	<a href="mailto:skyking195@aol.com">skyking195@aol.com</a>
2014 Secretary	Bill True	WA9ASD	402-426-2813	<a href="mailto:williamtrue@aol.com">williamtrue@aol.com</a>
2014 Treasurer	Dave Rice	NØJSB	402-571-8915	<a href="mailto:davegr@netzero.net">davegr@netzero.net</a>
2014-2016 Director	Russ Rosenquist	NØMNW		<a href="mailto:n0mnw@yahoo.com">n0mnw@yahoo.com</a>
2014-2016 Director	Barb Westcott	KCØHLB	402-510-0308	<a href="mailto:barbwestcott@cox.net">barbwestcott@cox.net</a>
Immediate Past President	Tomas Hood	NW7US	402-915-1771	<a href="mailto:nw7us@nw7us.us">nw7us@nw7us.us</a>

### Club Committees

Courtesy Committee	Bill McCollum	KEØXQ	402-690-7965	<a href="mailto:ke0xq@cox.net">ke0xq@cox.net</a>
Education	Mary Joseph	NØTRK	402-492-9156	<a href="mailto:n0trk@arrl.net">n0trk@arrl.net</a>
Field Day	Tomas Hood	NW7US	402-915-1771	<a href="mailto:nw7us@nw7us.us">nw7us@nw7us.us</a>
Flea-esta	Chris Rice		402-571-8915	<a href="mailto:davegr@netzero.net">davegr@netzero.net</a>
Membership	Mary Joseph	NØTRK	402-492-9156	<a href="mailto:n0trk@arrl.net">n0trk@arrl.net</a>
Monday Night .94 Net	Rich Swig	WAØZQG	712-256-7774	<a href="mailto:wa0zqg@hotmail.com">wa0zqg@hotmail.com</a>
Prizes	Rollie Miller	ABØNN	402-333-1606	<a href="mailto:ab0nn@arrl.net">ab0nn@arrl.net</a>
Public Service/Emergency	Jim Westcott	KAØKCV	402-510-0308	<a href="mailto:ka0kcv@cox.net">ka0kcv@cox.net</a>
Publications	Bill Wilkinson	KCØSVZ	402-397-8803	<a href="mailto:kc0svz@gmail.com">kc0svz@gmail.com</a>
QSL Manager & Technical	Ed Edwards	KØIL		<a href="mailto:k0il@arrl.net">k0il@arrl.net</a>
Special Events Coordinator	Pat Joseph	KØCTU	402-492-9156	<a href="mailto:ppjoseph@cox.net">ppjoseph@cox.net</a>
Web Services	Mary Joseph	NØTRK	402-492-9156	<a href="mailto:n0trk@arrl.net">n0trk@arrl.net</a>

### Repeater Committee

Chairman	John Gebuhr	WBØCMC	402-932-3443	<a href="mailto:wb0cmc@cox.net">wb0cmc@cox.net</a>
Vice Chairman	Steve Schmitz	NØUP	402-306-2972	<a href="mailto:n0up@arrl.net">n0up@arrl.net</a>
Control Operator	Mary Joseph	NØTRK	402-492-9156	<a href="mailto:n0trk@arrl.net">n0trk@arrl.net</a>
Club Callsign Trustee	Corby Krick	KØSKW	402-540-5483	<a href="mailto:k0skw@k0skw.net">k0skw@k0skw.net</a>

### Other Contacts

ARRL Midwest Director	Clifford Ahrens	KØCA	573-221-8618	<a href="mailto:k0ca@arrl.org">k0ca@arrl.org</a>
ARRL Midwest Vice-Director	Rod Blocksome	KØDAS	319-393-8022	<a href="mailto:k0das@arrl.org">k0das@arrl.org</a>
EC Douglas County	Steve Schmitz	NØUP	402-306-2972	<a href="mailto:n0up@arrl.net">n0up@arrl.net</a>
EC Sarpy County	Dennis Mitchell	KCØYKN		
Exams/Vol. Council	Brian Zdan	KMØY	402-553-2610	<a href="mailto:bzdan@novia.net">bzdan@novia.net</a>
NE Section Manager	Matt Anderson	KAØBOJ	402-580-5515	<a href="mailto:ka0boj@arrl.org">ka0boj@arrl.org</a>
Official Observer Coordinator	Bill McCollum	KEØXQ	402-690-7965	<a href="mailto:ke0xq@cox.net">ke0xq@cox.net</a>

### 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 Bill KCØSVZ (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/>

(Want Ads continued from page 14.)

For Sale: Tower, Antennas, etc. Used 48' HDBX Self Supporting, Tilt-over Tower. Cushcraft 214B 2 Meter Antenna. Ham 4 Rotor/controller. Climbing Belt. Two 40' and one 30' Hardline with connectors. 20' Mast. Cushcraft 617-6B 6 Meter Antenna, 34 ft. boom, 6 elements, 14 dB gain. All as is and loaded in trailer ready for delivery. Price: \$500. Contact: Dave NØJSB at [davegr@netzero.net](mailto:davegr@netzero.net) or call 402-571-8915.

### IARCHS Annual Antique Radio Auction

The Iowa Antique Radio Club and Historical Society is holding their annual auction on Saturday, May 3, 2014 at 10:00 AM. Location: Auction Building at Hawkeye Downs, 4400-6<sup>th</sup> Street SW, Cedar Rapids, IA. Hayrack items, if consigned, start at 9:00 AM. Radio check-in and auction set up will be Thursday and Friday, May 1st and 2nd from 9:00AM to 5:00PM. Auction organized by IARCHS and conducted by Brent Wears, one of Iowa's leading auctioneers. Send digital photos of items to be consigned to Dwight Baker for advance promotion. Watch the Wears Auctioneering website for featured radios and the latest auction information. \$5 minimum opening bids except for hayrack. Questions? Please contact us: Dwight Baker, Club President 515-965-0999, e-mail: [vtaudio@hotmail.com](mailto:vtaudio@hotmail.com), or Dave Perkins, 641-485-7919, e-mail: [spamhole1951@gmail.com](mailto:spamhole1951@gmail.com).

*Auction Information:* Brent Wears, Wears Auctioneering, Inc. 319-624-3779, e-mail: [brent@wearsauctioneering.net](mailto:brent@wearsauctioneering.net), [www.wearsauctioneering.com](http://www.wearsauctioneering.com)

*Club Information:* [www.iowa-antique-radio-club.com/](http://www.iowa-antique-radio-club.com/)

*de Rich WA0ZQG*

### Club Dues Change

At the AARC Directors' Meeting on February 25<sup>th</sup>, Membership Committee Chair Mary NØTRK proposed the following change to the Club dues structure:

I would like to propose that a change to the dues be made to make it more affordable for a family to have multiple members in the club.

This would not change the dues for any member type or add any new membership class that is currently defined, but rather cap the amount paid for (licensed) members who all reside at the same residence, regardless of age or marital status.

I would propose that a maximum of \$25 annually be put on the dues amount paid per household.

Current dues Regular member \$20, spouse \$4, minor dependents \$4 and students \$8.

This will allow for kids to stay at home longer, aging parents who move in with their kids and domestic partnerships.

The Board members voted and approved the change. Note that this conforms to the current Club Bylaws (copies available from the AARC Secretary, Bill WA9ASD).

## Want Ads

Wanted: Linksys Router Did you upgrade your router? Still have your old one in the closet? I am looking for Wireless Linksys Router Models WRT54G (version 1 – 4), WRT54GS (version 1- 4), and WRT54GL (any version). If you aren't sure of the version, email me the first 4 characters of the serial number and I can tell you if I can use it. This is for a ham radio project. Willing to pay \$10 for complete and working units, Will still take them off your hands if they aren't working. Contact: Mary NØTRK at the next AARC meeting, or email [n0trk@arrl.net](mailto:n0trk@arrl.net)

For Sale: ARRL Repeater Directory 2011-2012 Desktop Edition. Spiral binding. Excellent condition. Includes 21,800+ repeaters around the country, D-Star, and APCO-25. Has operating practices, emergency messaging handling, tips for dealing with interference, SKYWARN/NWS severe weather reporting guidelines, and more. Price \$5. Contact any AARC officer at the next meeting, or send an email to the club at the following URL: <http://tinyurl.com/kyhwwvn>

For Sale: IC-HM7 Microphone. Icom hand-held dynamic microphone with built-in preamplifier. In excellent cosmetic condition with light signs of use, wire and insulation is excellent, no drying/cracking, or kinks. PTT button has good positive spring action. Has an 8 pin connector installed. Price \$30. Contact any AARC officer at the next meeting, or send an email to the club at the following URL: <http://tinyurl.com/18o8oxn>

For Sale: 1978 ARRL *The Radio Amateur's Handbook*. Good condition, pages are yellowed. There is some minor dog-earing, but the binding is still solid. Price \$5. Contact any AARC officer at the next meeting, or send an email to the club at the following URL: <http://tinyurl.com/khzjf2h>

For Sale: Vintage Harvey-Wells Station R-9A receiver, T90 transmitter, Z-Matcher, APS90 power supply (120 VAC transmitter power supply), VPS-T91 (6 VDC power supply for transmitter), VPS-R9 (6 VDC power supply for receiver). Complete station from the middle 50s. Price \$250 or best offer. *Also:* R-9A receiver, \$65. T90 transmitter, \$50. TS-90 transmitter, \$50. No power supplies available for either transmitter but requirements are modest. Contact Bill WA9ASD to purchase. Email: [williamtrue@aol.com](mailto:williamtrue@aol.com).

For Sale: Heathkit SB-104A HF Transceiver Vintage Heathkit SB-104A powers on, receives and transmits, needs tweaking to take it back to full potential. Comes with Heath Power Supply, matching SB-604 speaker. Power supply is not currently mounted in the SB-604 case, but it is designed to do so. Includes the Heathkit extender board (selling for over \$50 on eBay), Assembly and Operation manuals for the SB-104A, manual for the PS-1144 power supply, and the SB-605 Speaker and schematics. (Manuals go for \$10 to \$25 each) Everything is in great condition. Price: \$400.00, but all offers considered. Contact an AARC officer at the next meeting or send an email to the Club web site at <http://tinyurl.com/m6jdhud>

(Want Ads continued on page 15.)



## Veep Speaks

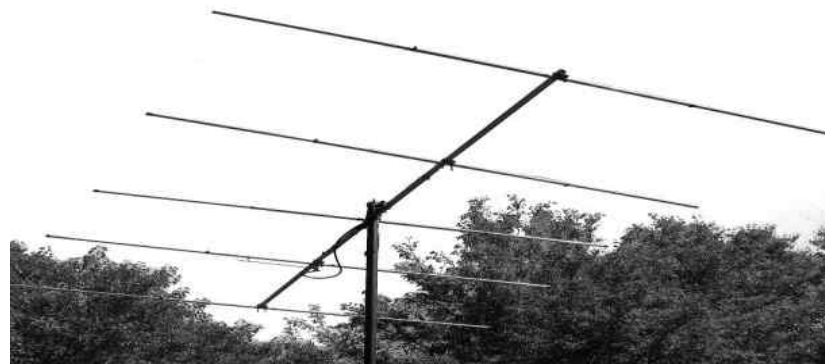
The program for our March meeting will be on Antenna Analyzers and their practical application for hams by one of our members, Cam Cushing, W7CAM.

Some of the Aksarben ARC members participate in our local 10 Meter net on Thursdays, at 8:00PM on 28.350. This frequency was chosen so our Tech licensed members can participate and get on the HF bands. All are welcome to this

informal net.

If you like shortwave listening, you can use your HF radio on general coverage to listen to WTWW, a 100,000 watt shortwave station in Tennessee. They have a ham radio program on Saturday evenings hosted by a ham, Ted Randall, at 6:30 or 7:00. The frequency is 5.085 MHz. They also have a request-by-email program on Sunday evenings playing older country music.

*Mitch WBØGBI, Vice President AARC*



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## Charles Rush, NØAZ, Silent Key

It is with deep regret to report that Charles Rush, NØAZ, became a silent key on February 24, 2014. He was 64. Chuck was a life member of AARC and an avid bicyclist. He served as the Club Callsign Trustee for many years and often helped with communications for various charity events. A 1975 graduate of the Creighton University School Of Medicine, Dr. Rush worked as a pediatrician at the Joshua Medical Center.

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## Club Meeting Minutes – February 14, 2013

*Bill WA9ASD, Secretary AARC*

The meeting was called to order at 7:04 PM by the Vice President Mitch, WBØGBI by saying the Pledge of Allegiance followed with introductions by name and call. There were 22 attendees.

Officers and Board members present included: Mitch, WBØGBI; Bill, WA9ASD; Barb, KCØHLB; Dave NØJSB and Russ NØMNW.

Secretary's Report - Bill, WA9ASD - The minutes of the January meeting were published in the *Ham Hum*. A motion was made by Mary, NØTRK, seconded by Russ, NØMNW to accept the December club meeting minutes as published in the *Ham Hum*. There were corrections to reverse the descriptions of two itemized expenses in the Treasurer's Report and the date of the Lincoln Hamfest was corrected to March 15th and the motion with corrections passed unanimously.

Treasurer's Report – Dave, NØJSB - In the month of January Dave, NØJSB reported that there were deposits of dues for \$556, a donation of \$2 from NØUP, and \$21 for refreshments. Payments consisted of \$24.06 for meeting refreshments, \$84.95 for *Ham Hum* supplies, \$58.99 for a membership mailing, \$10 for trailer license registration, and a \$3 bank fee. This leaves the balance of all the club accounts at \$22,183.57.

President's Report - Adam, KDØMMG - Adam, through a note to the Vice President said he was sorry he could not make it to the meeting and looked forward to seeing everyone in March. He further noted that anyone should feel free to contact him if they need anything before then.

Vice President's Report - Mitch, WBØGBI - Mitch reported that tonight's original program on robots could not be presented and instead he had a couple of videos that we could watch and that Dave, NØJSB had brought a collection of code machines to display and demonstrate.

### Public Service

- COMMUNITY EVENTS - Pat, KØCTU - This is a reminder that the 2014 Nebraska State Track Meet will be on Friday, May 23<sup>rd</sup> and Saturday May 24<sup>th</sup>. Let Pat know if you would like to volunteer.
- ARES - Steve, NØUP - The annual Douglas County Siren Test will be February 22 at 10 AM and 10:30 AM. The net will start at 9 AM with check-ins at 9:30 and everyone should be at their assigned location at 9:45. The test should be done by 11 AM and if additional reports are needed it may go a little longer. The Sarpy County Siren Test will be April 5th and to contact KCØKYN for details.
- SATERN - Jim Westcott, KAØKCV - Jim reported that the NWS will be running spotter training classes. Take the training. See the NWS website for details.

(Meeting Minutes continued on page 5.)

## Club Calendar

<b>Mar 12</b>	7:30 PM LARC Meeting, <i>Hardin Hall, 33<sup>rd</sup> &amp; Holdrege</i> , Lincoln, NE.
<b>Mar 12</b>	9:00 AM BARC Hamfest. American Legion, 230 West Lincoln St, Papillion, NE
<b>Mar 14</b>	7:00 PM AARC Meeting. Red Cross Building, 81 <sup>st</sup> & Spring St, Omaha, NE.
<b>Mar 15</b>	8:30 AM ARRL Nebraska State Convention, 84th and Havelock Ave., Lincoln, NE
<b>Mar 15</b>	6:00 PM AARC Coffee. Perkins Restaurant, 108 <sup>th</sup> & L Streets, Omaha, NE.
<b>Mar 19</b>	7:00 PM Heartland Hams, 403 Railroad Ave., Glenwood, IA.
<b>Mar 20</b>	7:30 PM BARC Meeting. Masonic Hall, 1908 Franklin St, Bellevue, NE.
<b>Mar 25</b>	6:30 PM AARC Directors' Meeting. Village Inn, 78th & Dodge Streets, Omaha, NE.
<b>Mar 25</b>	6:30 PM AARC VE Session, Red Cross Building, 81st & Spring St, Omaha NE.
<b>Mar 27</b>	7:30 PM PARC Meeting. 1900 E. Military Ave, Fremont, NE.
<b>Mar 27</b>	7:30 PM SWIARC Meeting. 705 N 16 <sup>th</sup> , Council Bluffs, IA.
<b>Apr 6</b>	8:30 AM Creighton Regatta. Carter Lake (north side).
<b>Apr 9</b>	7:30 PM LARC Meeting, 4647 Superior St., Lincoln, NE.
<b>Apr 11</b>	7:00 PM AARC Meeting. Red Cross Building, 81 <sup>st</sup> & Spring St, Omaha, NE.
<b>Apr 12</b>	HBQRP. No meeting planned due to OzarkCon 2014.
<b>Apr 12</b>	9:00 AM MS Walk. Stinson Park, 2285 S. 67 <sup>th</sup> ST, Omaha, NE.
<b>Apr 16</b>	7:00 PM Heartland Hams, 403 Railroad Ave., Glenwood, IA.
<b>Apr 17</b>	7:30 PM BARC Meeting. Masonic Hall, 1908 Franklin St, Bellevue, NE.
<b>Apr 19</b>	6:00 PM AARC Coffee. Perkins Restaurant, 108 <sup>th</sup> & L Streets, Omaha, NE.
<b>Apr 22</b>	6:30 PM AARC Directors' Meeting. Village Inn, 78th & Dodge Streets, Omaha, NE.
<b>Apr 24</b>	7:30 PM PARC Meeting. 1900 E. Military Ave, Fremont, NE.
<b>Apr 24</b>	7:30 PM SWIARC Meeting. 705 N 16 <sup>th</sup> , Council Bluffs, IA.
<b>Apr 26</b>	10 AM Public Safety Expo. Westroads Mall, Omaha, NE.
<b>May 23</b>	State Track Meet (thru May 24).
<b>Jun 28</b>	Field Day (thru June 29).
<b>Sep 6</b>	Flea-esta. Sarpy County Fairgrounds, Springfield, NE.
<b>Sep 27</b>	3900 Club Hamboree. Firefighters Hall, 2108 Franklin St, Bellevue, NE.

For more details and the latest updates, see the *Calendar* section of the AARC web site (<http://www.aksarbenarc.org/>).

## 3900 Club Hamboree in September

The 3900 Club has reserved the Firefighters Hall in Bellevue for the 3900 Club Hamboree on September 27<sup>th</sup>. More details to be worked out. For updated info, check <http://www.wd0bfo.com> and follow the 3900 Club menu at top to Hamboree 2014. While there, check the BARC menu for that flea market on March 12.

If you would like to help, just drop a note; there are contact pages on my site, or just email me at [wd0bfo@cox.net](mailto:wd0bfo@cox.net).

*Tom WDØBFO*

## QCWA Chapter 210 News

Dick WØHXL, has announced his retirement as Secretary of the local QCWA chapter. Also, the regular meeting location, the Old Country Buffet at 14545 West Center Street, will be closing on March 23<sup>rd</sup>. Currently no decision has been made about where to have future meetings. For the latest updates, see the QCWA web page at <http://qcwa-chapter210.tripod.com/>

*Bill KEØXQ, President QCWA Chapter 210*

## 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.  
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 3.896.000 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.

### ***Want to Use KØUSA 146.940 for Community Service Events?***

The KØUSA repeater is an open system and is available for any licensed ham radio operator to use. We welcome other clubs and organizations to use it for providing communications support for nonprofit activities. To avoid scheduling conflicts, the Club asks that you obtain permission from the AARC Repeater Committee *at least 72* hours in advance. To submit your request, please click the *KØUSA Use Request Form* link on the AARC web site: <http://tinyurl.com/msodyvh>

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*You may be a ham radio operator if...you have put a GPS tracker in the XYL's car or on the riding mower, just so you could watch it on APRS.*

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(Meeting Minutes *continued from page 4.*)

### Public Service (continued)

- OMMRS - Mary, NØTRK - Mary reported that the Major Accident Response Exercise will be on Saturday morning of Field Day weekend. There may be time to get that in before Field Day operating begins.

Education Committee - Mary, NØTRK - Mary reported that we will need to have a class finished up by mid-June so attendees can take the test before the question pool changes at the end of the month. There is no location or dates yet.

Membership Committee - Mary, NØTRK - Pay your dues.

### Publications/Web Services

- *Ham Hum* - Bill, KCØSVZ - Bill reported that there were no paper jams.
- Web Site - Mary, NØTRK - Check out the club equipment for sale on the web site. Steve, NØUP reported that it is usually in good condition.

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

Field Day - Tomas, NW7US - Tomas, NW7US has agreed to be Field Day Chairman.

QSL and Technical Committee - Eddy, KØIL - No report.

Courtesy Committee - Bill, KEØXQ - No report.

Trailer/Equipment Committee - Mary, NØTRK - The club trailer is hibernating. The club has 2 HTs available for loan. If you'd like to participate in a public service event, but don't have a radio, borrow one from the club. Work is progressing on getting a carrying case and instructions for the club antenna analyzer.

Public Awareness - There will be a Boy Scout Merit Badge College on March 1st. Contact Dudley, KDØNMD if you would like to assist.

Flea-Esta - Chris Rice - The building at the Sarpy County Fairgrounds has been reserved. We will be setting up on September 5, and the Flea-Esta will be September 6th. Volunteers are needed.

Old Business - None.

New Business - None.

Cookies and coffee are available in the lunchroom - please donate to help fund these delights.

Rollie announced the door prizes of a set of Dewalt hand operated tools, an Arduino/PIC programming book, The Brown Bag Door Prize and The Mr. Reeh Door prize are available.

Mary, NØTRK displayed and discussed the First Place In Nebraska Certificate that the club earned in the 2012 Phone Sweepstakes.

(Meeting Minutes *continued on page 6.*)

Announcements

- Joe, KØNEB announced that the Lincoln Hamfest will be March 15. A featured speaker will be NN1N presenting the Logbook of the World. Joe also provided directions to the hamfest.
- He also reported that there was a printing problem with CQ magazine and the printer was working on speeding up delivery.
- He then discussed the radio and hat supplied to SuperBowl attendees.

At 7:42 PM a motion was made by John, WBØCMC, seconded by Jim, KAØKCV, Steve, NØUP, and Rollie, ABØNN to end the meeting. Passed unanimously.

*Bill WA9ASD, Secretary AARC*

### Saturday Night Coffee

The February get-together at Perkins included Pat KØCTU, Bill KCØSVZ, Christina NØRIS, Mary NØTRK, Steve NØUP, and Cam W7CAM. Plus, there was a huge crowd of people in town for an AMWAY convention. Huge as in nearly filling the south end of the restaurant. This group was unplanned-for as the Perkins staff wasn't expecting them until next week—so there were only two waitresses on duty that night. Luckily our group had arrived about an hour before they did, so we got our orders served on time.

The topics under discussion covered the usual wide variety of subjects: multilevel marketing techniques, siren testing, wireless mesh networks, Cam's planned talk for the March meeting, 3D printing, mud skiing while geocaching, and favorite television shows, to name a few.

Despite the excess crowd, the Perkins staff managed to serve us on time with excellent food. That, along with the entertaining conversation, made for an excellent evening.

The AARC Coffee get-together is held at Perkins restaurant at the corner of 108th and L Streets in Omaha on the third Saturday of the month, starting at 6 PM. Everyone is invited.

**ATTENTION:** This month, the third Saturday occurs immediately after the second Friday, so we'll be at Perkins for coffee and conversation the day after the regular club meeting instead of eight days after. Mark your calendar! It will be an excellent way to end the evening after you return from the Lincoln hamfest.

*Bill KCØSVZ*



## Contest Calendar

March 2014

QRP Fox Hunt	0100Z-0230Z, Mar 12
CWops Mini-CWT Test	1300Z-1400Z, 1900Z-2000Z, Mar 12 and 0300Z-0400Z, Mar 13
RSGB 80m Club Championship, CW	2000Z-2130Z, Mar 12
QRP Fox Hunt	0100Z-0230Z, Mar 14
SARL VHF/UHF Analogue/Digital Contest	1600Z, Mar 14 to 1000Z, Mar 16
BARTG HF RTTY Contest	0200Z, Mar 15 to 0200Z, Mar 17
PN Quick CW Contest	0900Z-1040Z, Mar 15
F9AA Cup, SSB	1200Z, Mar 15 to 1200Z, Mar 16
Russian DX Contest	1200Z, Mar 15 to 1200Z, Mar 16
Virginia QSO Party	1400Z, Mar 15 to 0200Z, Mar 16 and 1200Z-2400Z, Mar 16
AGCW VHF/UHF Contest	1400Z-1700Z, Mar 15 (144) and 1700Z-1800Z, Mar 15 (432)
Feld Hell Sprint	1600Z-1800Z, Mar 15
North American Sprint, SSB	0000Z-0400Z, Mar 16
UBA Spring Contest, 2m	0700Z-1100Z, Mar 16
Run for the Bacon QRP Contest	0100Z-0300Z, Mar 17
QRP Fox Hunt	0100Z-0230Z, Mar 19
NAQCC Straight Key/Bug Sprint	0030Z-0230Z, Mar 20
RSGB 80m Club Championship, SSB	2000Z-2130Z, Mar 20
QRP Fox Hunt	0100Z-0230Z, Mar 21
FOC QSO Party	0000Z-2359Z, Mar 22
Oklahoma QSO Party	1300Z, Mar 22 to 0100Z, Mar 23 and 1300Z-1900Z, Mar 23
Louisiana QSO Party	1500Z, Mar 22 to 0300Z, Mar 23
QCWA Spring QSO Party	1800Z, Mar 22 to 1800Z, Mar 23
UBA Spring Contest, SSB	0700Z-1100Z, Mar 23
SKCC Sprint	0000Z-0200Z, Mar 26
QRP Fox Hunt	0100Z-0230Z, Mar 26
CWops Mini-CWT Test	1300Z-1400Z, 1900Z-2000Z, Mar 26 and 0300Z-0400Z, Mar 27
QRP Fox Hunt	0100Z-0230Z, Mar 28
CQ WW WPX Contest, SSB	0000Z, Mar 29 to 2359Z, Mar 30
PN Quick CW Contest	1600Z-1740Z, Mar 29

April 2014

QRP Fox Hunt	0100Z-0230Z, Apr 2
SARL 80m QSO Party	1700Z-2000Z, Apr 3
QRP Fox Hunt	0100Z-0230Z, Apr 4
LZ Open 40m Sprint Contest	0400Z-0800Z, Apr 5
Mississippi QSO Party	1400Z, Apr 5 to 0200Z, Apr 6
SP DX Contest	1500Z, Apr 5 to 1500Z, Apr 6
ARS Spartan Sprint	0100Z-0300Z, Apr 8

Sources: <http://www.hornucopia.com/contestcal/index.html> & <http://www.aksarbenarc.org>

*You may be a ham radio operator if...you have thought you were still hearing CW, SSB, or SSTV tones even when your ham radio was off.*



(Picture courtesy of WBØGBI.)

## 2012 ARRL 10 Meter Contest Award

AARC Vice President Mitch WBØGBI won first place in the 2012 ARRL 10 Meter Contest in the Single Operator, Phone-Only, High-Power, Nebraska category. He made 453 QSOs for a score of 45,904 points. Congratulations, Mitch!

His certificate did not arrive until last month due to personnel changes within the ARRL Contest Branch. See page 8 of the February 2014 *Ham Hum* for details.

If you've participated in a recent ARRL contest and am expecting a plaque or certificate, you can check its current status at the following URL:

<http://www.arrl.org/plaques-and-certificates>

*Bill KCØSVZ*

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*You may be a ham radio operator if...your teenager has refused to ride in your car because it looks like a porcupine.*

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## Practical Fox Hunting

*[Editor's Note: Denny KØLGI is a long-time contributor to the Ham Hum. The following is from an email he sent to me after he'd read the ARDF article in the January issue. The email is a preface to an article he'd written for the RF Café web page. Read the following, then check out the article on the URL at the end. You'll find it interesting. --Bill KCØSVZ]*

Just a short note today about a favorite website (RF Café) of many others I often visit, where this one—after some minor editing—accepted a recent submission, *Tracking Down a Mystery Signal*, for online publication. It is under the moniker appropriately called "Out of Order."

This one is about one of my past RF 'adventures' of which there are a multitude of others dealing with interferer's of a wide variety of types and sources. Many are not directly amateur related—such as emergency services, for example.

In total, there are over a dozen or more that are gradually being written—for posterity reasons and for future publication—about the usefulness of amateur participation in the sport of "finding the Fox," be it involving amateur radio frequencies or otherwise.

Another reason this is being done is to bring an increased awareness of the value of how hams fox hunting expertise can contribute when time is of essence to quickly resolve an interferer source—especially if there are few other options available.

<http://www.rfcafe.com/miscellany/out-of-order/tracking-down-mystery-signal.htm>

(Alternate easier-to-type link: <http://tinyurl.com/mw2dcm1>)

*Denny KØLGI*

## 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 just itching to get on the air as you shop for your new radio.

Other equipment includes an ARRL *Introduction to Morse Code* CD set and (in the near future) an MFJ-259B antenna analyzer. A policy for the antenna analyzer is still being set—see the AARC web page at <http://www.aksarbenarc.org/main/> for its status.

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 listed above.

*de AARC Equipment Committee*

## February Door Prizes

There were only two door prizes this month. "We're going for quality instead of quantity this time," said Door Prize Maestro Rollie ABØNN. The first was a DeWALT multi-toolkit, while the other was *Ham Radio for Arduino and Picaxe* by Leigh L. Klotz, Jr, WA5ZNU. The book is from the ARRL and provides theory and experiments for building and programming microcontroller circuits for amateur radio.

Note that if you ignore the word "quality" in Rollie's statement, then the first sentence should read "...four door prizes..." The extras, of course, are the Brown Bag Prize and the dreaded Mr. Reeh Door Prize.

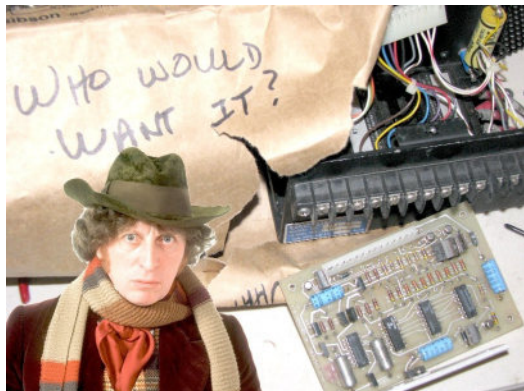
Pat KØCTU drew the tickets—this time with his back turned so that he couldn't see the ones he was picking; thus ensuring fairness.

The toolkit went to Russ NØMNW and the technical book went to Dave NØJSB. The less-than-fortunate winners of the "other" door prizes were Mitch WBØGBI, who won the Brown Bag Prize (a seven-day digital timer) and Bill KCØSVZ, who got the Mr. Reeh Door Prize.

The latter prize was just that: a mystery. Unwrapping the package revealed a black box with a 14-lug connector strip and a label marked "Purvis Systems Model PS101, Serial Number 010. Upon a close (but expert) examination, Bill WA9ASD determined that it "...appears to be two independent 15-to-24 volt regulated DC supplies in a single box. All inputs and outputs via unmarked terminal strip. Probably good for 2 to 3 amps each."

Upon taking the unit home and tearing it apart, a quick inspection by Ye Editor revealed (among other things) a 556 dual timer, two 74LS10 triple 3-input NAND gates, and a 74LS10 dual D-type latch—indicating that it might be a switching power supply. Some more reverse engineering is needed.

Note that the proceeds for each month's tickets go for buying next month's prizes. Also, all tickets are kept and included in the Grand Prize drawing in December.



(Winging It continued from page 5.)

One of Dave's units was motor driven and contained a 70L7 pentode-diode oscillator/rectifier circuit for tone generation. The other was spring powered and required it to be wound up with a hand crank before it could be used.

To make the demo more interesting Dave used a modified Heathkit HD-1416 Code Oscillator as a sounder, plus an MFJ-461 Pocket CW Reader and a Microcraft Morse-A-Word CW decoder to demonstrate the output of the Instructographs. They worked quite well, though one of the tapes would confuse the decoders because it was generating American Morse code (Railroad code) instead of International.

Bill KCØSVZ



Bill KCØSVZ

