

Ham Hum

Amateur Television

John Gebuhr, WB0CMC, gave a talk on the basics of ATV. He said that it doesn't take much to set up a station: a \$15 camera, a monitor, a 440 MHz transceiver, an NTSC tuner/VCR that can tune to cable channels 57 through 60, and a 70 cm beam antenna. For setting up a repeater, consider adding a 200W analog linear. (However, a 20 watt transmitter has been



used in the past on his system.) A 2 meter transceiver that can be used for simplex talk-around on 146.52 would also be handy.

If you wish to experiment with receiving ATV, you can try a cable-ready tuner set to channel 57, a monitor, and the beam antenna. Note that is cable channel 57 (421.25 MHz), not broadcast channel 57 (720.25 MHz). Point your antenna to Benson High School where John has his repeater. For details, see the web page at:

https://www.repeaterbook.com/repeaters/details.php?state_id=31&ID=16765

John noted that, besides using ATV for experimenting, it can be used for disaster work--such as providing live updates from the field.

Bill KC0SVZ



AKSARBEN ARC Club Meeting – August 10, 2018

The meeting was called to order at 7:05 PM by saying the Pledge of Allegiance followed by introductions by name and call. There were 29 attendees.

Officers and Board members present included: Bill, WA9ASD; Brian, KE0GKB; Dave, N0JSB; Dan, N0POT;

Secretary's Report - Brian, KE0GKB - The minutes of the previous meeting, as published in Ham Hum are accepted with one Corrections. Heartland hams and SWI-ARC will have a Special Event Station at the Offutt Airshow.

Treasurer's Report - Dave, N0JSB - In the month of July there were deposits of \$74.00 Consisting of: \$20.00 from Membership, \$21.00 from Treats, \$33.00 from Equipment Sales.

Payments of \$20.73 for meeting treats, \$231.96 for Flea-Esta Prizes, \$35.00 for Nebraska QSO Plaque, \$208.91 for Field Day food, and \$301.95 for Trailer equipment.

This leaves the balance of all the club accounts at \$23,692.10

President's Report - Bill, WA9ASD - No Report

Vice President's Report - Bill, WA9ASD

Tonight's program is "A demonstration of ATV" by John WB0CMC.

Next Month's program Will be The Status of DSTAR in Nebraska.

ARES/SATERN/COMMUNITY EVENTS

ARES Steve, N0UP No Report

OMMRS - Mary, N0TRK - No Report

SATERN - No Report

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Community Events - Pat KOCTU -

The Corporate Cup Run will be September 9, The Sunday after the Flea-Esta. Please contact Pat if you can volunteer for this event. It will start at 8 am at Aksarben Village.

Crop Walk for Hunger October 14 and Market to Market Relay will be Saturday October 6, if you have any questions please see me after the meeting.

Education Committee - Mary N0TRK- Class will begin this Thursday August 16. We have between 10 and 15 people signed up for the class already, so registration will probably be closed by Monday. The only expense for the class is the book if you wish to purchase it.

Membership Committee - Mary, N0TRK -
Jordan Eppersen K9FAX

Motion was made by Norm and Second by Kyle. After a brief discussion Jordan was approved by unanimous vote.

Publications/Web Services

Ham Hum - Brian, WEOBEP - No Report

Web Services - Mary, N0TRK/Adam, KDOMMG - The website is working. Flea-Esta is not prominent on the web site but it will be updated as we get more information on what the door prizes will be and other information.

Repeater Committee - John, WBOCMC - The repeater is working fine. We did find two oscillations that were happening inside the repeater one from a microprocessor and the other from a DC to DC converter inside the repeater itself. We were able to suppress both signals, so it is working as it should. The remote site is working fine.

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Field Day - Adam, KDOMMG - Thank you for everyone who operated this year. The results on the clubs standing will be published in November issue of QSL

QSL and Technical Committee - Eddy, K0IL - No update

Courtesy Committee - Bill, KE0XQ - No cards sent out.

Trailer/Equipment Committee - Mary, N0TRK - Some of the equipment that the club has will be offered at Flea-Esta at a Silent Auction. Please stop by and place your bids.

Public Awareness - Jim, KA0KCV - No Report

Transmitter Hunt - Dan, N0POT No activity this month we will wait for better weather.

Flea-Esta - Chris - The dated for Flea-Esta is September 8 from 8 to 12 at the Sarpy county fairgrounds in the 4H building. The grand prize is an Anytone DMR radio. Setup will be Friday September 7 beginning at 4. Tables are \$8 in advance and \$10 at the event, we have sold 12 tables so far and D&L will be there. We are still in need of Volunteers so see Chris after the meeting.

Old Business -

The Nebraska QSO Party is looking for a new home. What is need is a champion to lead the effort. If you might be interested, please see Bill WA9ASD for more information

New Business - No new Business.

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Announcements - SWIARC and Heartland hams will have a Special Event Station at the Offutt Airshow HT Radios will be allowed in but have a copy of your license with you. They will try to operate on 20 and 40 meter and hope to foster some interest from the general public in HAM Radio. Please stop by and show your support.

Mary N0TRK received an email from Homestead National Monuments that they miss us and wonder if we will be back there to Operate. After looking at the calendar we noticed that August 26 will be the 102ND anniversary of the National parks system. Since National Parks On the air was such a great success last year there has been a grassroots effort to do Parks on the Air. We will be going down on August 25 to activate at Homestead National Monument rain or shine.

Door Prizes - Adam, KDOMMG said, "Door prizes, we got em.". All tickets are retained until the December meeting for the big drawing.

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

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

At 7:45 PM, there being no more business before the club the meeting is adjourned.

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

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 SSB 10-Meter Net.

8:00 PM 144.250 2-Meter SSB Net.

8:00 PM 146.360 Heartland DX Association.

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.

BOARD MEETING NOTICE

The next AARC Board Meeting is scheduled for **25 September 2018 at 6:30PM**, Peony Park Hy-Vee on Cass Street, Omaha. Unless further Notice, the board meetings are held on the fourth Tuesday of each month.

Good idea to check the WEB Site for any changes in Dates or Locations.

Club Officers & Board Members

President	Bill True	WA9ASD	president@aksarbenarc.org
Vice President	Justin Tabor	KE0BHP	vicepresident@aksarbenarc.org
2018 Secretary	Brian Sohl	KE0GKB	secretary@aksarbenarc.org
2018 Treasurer	Dave Rice	NØJSB	treasurer@aksarbenarc.org
2017-2018 Director	Dan Buchholz	NØPOT	board@aksarbenarc.org
2018-2019 Director	Brian Sohl	KC0HLB	board@aksarbenarc.org
2018-2019 Director	Barb Westcott	KE0GKB	board@aksarbenarc.org
Immediate Past President	Kevin Hill	KAØVNY	board@aksarbenarc.org

Club Committees

Courtesy Committee	Bill McCollum	KEØXQ	courtesy@aksarbenarc.org
Education	Justin Tabor	KEØBHP	education@aksarbenarc.org
Field Day	Adam Kavan	KDØMMM	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	Adam Kavan	KDØMMM	prizes@aksarbenarc.org
A.R.E.S.	Steve Schmitz	NØUP	n0up@arrl.net
Publications	Brian Pitchanau	WEØBEP	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
Member	Russ Hilton	ADØQH	repeater@aksarbenarc.org

Other Contacts

ARRL Midwest Director	Rod Blocksome	KØDAS	k0das@arrl.org
ARRL Midwest Vice-Dir.	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 Coord.	Bill McCollum	KEØXQ	oo_coordinator@aksarbenarc.org

AARC Ham Hum Post Office Box 24551, Omaha, NE 68124-0551

EQUIPMENT ADS

Items are sold by the Aksarben ARC and inquiries should be directed to

equipment@aksardenarc.org

Home Brew Amplifier

A superb construction of a full legal limit HF amp. by the book. Needs only a 3-1000Z tube and HV P.S. needs to be reassembled. See Aksarben eSwap for more details. just reduced to \$500. We deliver.

Sinclair SRL-229 Base Station Antenna. Gain 6.1 dB (8.3 dBi). Bandwidth 6 MHz (centered @ 144-148 MHz). Power rating: 300 watts, polarization: vertical. omnidirectional. Lightning protection: DC ground. Termination: N-male. Length: 258". Weight 25 Lbs. Rated wind velocity: 125 MPH. Rated wind with 1/2" radial ice: 105 MPH. Horizontal thrust @ rated wind and ice load: 190 Lbs. New price: \$1,338.75 + S&H. Your price: only \$500 (OBO) The antenna has had a minor repair and is in good working order.

The following list of equipment is from Jessica Jurgensen. These items belonged to her late husband and she has asked if anyone in our club would be interested in them. You may email Jessica at pjjurgensen@gmail.com

ICom 1200mhz All mode (IC-1271A) UHF Transceiver...\$400 obo

Kenwood HF Transceiver TS930s...&700 obo

Kenwood HF Transceiver TS450s...\$350 obo

Ameritron mobile amplifier ALS-500m Solid State No Tune...\$400 obo

Uniden Bearcat Trunktracker IV (BCD996XT)...\$160 obo

Yaesu G-800DXA...\$100 obo

MFJ Deluxe DC power outlet (model MFJ-1129)...\$100 obo

Realistic 10m SSB/CW Transceiver (HTX-100)...\$75 obo

Bencher paddles...\$70 obo

VCI RF Watt Meter PM-30...\$65 obo

Diamond antenna SWR & Power Meter SX-100

RadioShack Switching power supply cat#22-510

RadioShack power testers (have 2)

Midland power testers

RadioShack Regulated power supply (3Amp 13.8VDC)

This page normally consists of a listing of equipment items for sale. Those items are removed and will be available for you to acquire during a silent auction at the Flea-Esta, September 8, 2018 from 8:00 am to 12:00 noon, Sarpy County Fair Grounds, Springfield, Nebraska.

There will be Food, Refreshments, Door Prizes, with a Grand Prize of an Anytone Digital DMR Analog (AT-D868UV) hand-held radio.



Club Calendar

- Sep 12** Lincoln ARC meeting, 7:30PM 6131 North 14th Street, Lincoln, NE
Sep 14 AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
Sep 15 AARC Coffee and Conversation, 10770 M St, Village Inn Omaha, 6:30 PM
(Corner of 108th and L Streets)
- Sep 19** 7:00 PM Heartland Hams Meeting, 403 Railroad Ave, Glenwood, IA
Sep 20 7:30 PM Bellevue ARC meeting, Bellevue Masonic Hall Dining Room,
1908 Franklin St, Bellevue, NE
- Sep 25** License Testing Omaha Area VE Team, 6:30 PM 2912 S 80th Ave, Omaha, NE
- Sep 27** 7:00 PM SWIARC meeting 705 N 16th St, Council Bluffs, IA.
Sep 27 7:30 PM PARC Meeting, 1900 E. Military Road, Fremont, NE
- Oct 4** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE
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Volunteers are needed for the upcoming **Market to Market relay**, scheduled for October 6, 2018. Radio operators from the Ak-Sar-Ben Amateur Radio Club will be posted at the starting line (Omaha Blue Cross Blue Shield in AkSarBen Village) through exchange point 9 near the Platte River. The Lincoln Club will then take over from there to the Finish line near Haymarket Square in Lincoln.

If you are interested in manning one of the exchange points, please contact the Special Events Coordinator at

community_service@aksarbenarc.org

For those who receive the Ham Hum in PDF format, click on the link below and watch the video.

<https://www.markettomarketrelay.com/locations/nebraska/>

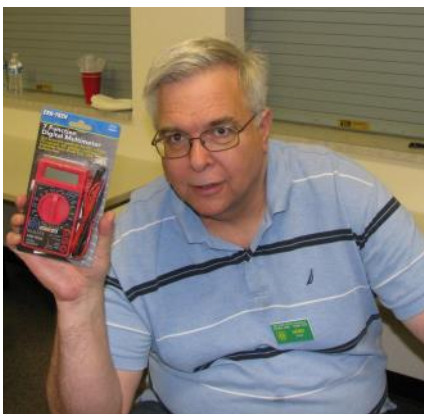
August Raffle Prizes

Bill KC0SVZ and Bill WA9ASD and Adam KD0MMG handed out door prizes to the following winners at the August meeting:

Dave N0JSB was awarded an HT bendy antenna and a four-spool assortment of colored twine. Von KD0KFR received an iCom hat. Jon KE0DVL won a JTSP-1 JETSTREAM external speaker.

Russ NE0G picked up the Brown Bag Door Prize, a CEN-TECH 7 Function Digital Multimeter.

Dan N0POT was the lucky winner of a 36" steel grip pickup tool. Unfortunately, his luck ran out and his name was also picked for the dreaded Mr. Reeh Door prize. This turned out to be an anodized box with an SO-239 connector and six BNC connectors. According to Anton Reeh's biographer, Bill WA9ASD, the box dual UHF coaxial relay that contains "...2 outputs on each end. It's all wired with RG-58 and the relays have BNC connectors on them. The power connection has a common neutral and a single pin to activate each relay. There are diodes across each relay coil. The coil voltages are unknown - probably 24 vdc. All connections are silver plated." Perhaps Dan was not so unlucky, after all.



Russ NE0G with the Brown Bag Prize



Dan N0POT holding the Mr. Reeh Prize

Radio Wave Propagation

A number of observatories around the world measure solar activity. A weighted average of this data is used to determine the International Sunspot Number (INS) each day. Solar cycles (Sun Spot cycles) have an average duration of about 11 years. Solar maximum and solar minimum refer respectively to periods of maximum and minimum sunspot counts. Cycles span from one minimum to the next. Sunspots are temporary phenomena on the Sun's photosphere that appear as spots darker than the surrounding areas. They are regions of reduced surface temperature caused by concentrations of magnetic field flux that inhibit convection. They usually appear in pairs of opposite magnetic polarity. Their number varies according to the approximately 11-year solar cycle. Samuel Schwabe, a German astronomer, was known for his studies and observations on sunspots. The thing to remember for test questions is the sunspot cycle is typically 11 years. The fact that Schwabe was looking for the planet Vulcan inside the orbit of Mercury might be a myth. One should ask Mary about that.

