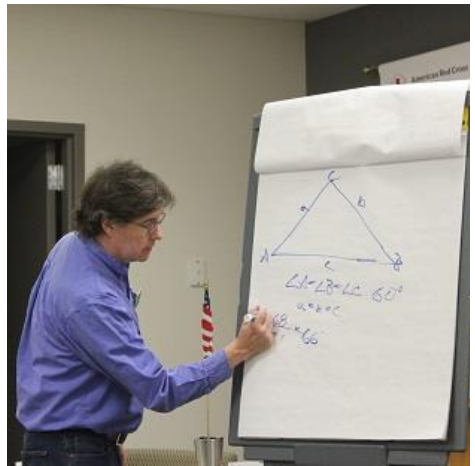
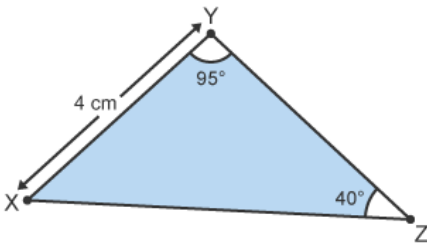




# Ham Hum

February 2019 Volume LXIX, Issue 2

Sean Edwards-AD0QG provided an informative briefing on using Triangles and Geometry to identify relative positions of placing antennas within properties of available space.



Plot the points on square paper and you will see that line  $AB$  is sloping down, therefore the gradient is negative.

Make a right angled triangle with the line  $AB$  as hypotenuse.

Gradient of line  $AB = \frac{\text{vertical height}}{\text{horizontal distance}} = \frac{7}{7} = 1$

Gradient of line  $AB = -1$  (negative one)

It was all Greek. Bottom line could be that your antenna will not fit in your back yard.

# AKSARBEN ARC Club Meeting – January 11, 2019

The meeting was called to order at 7:00 PM by saying the Pledge of Allegiance followed by introductions by name and call. There were 28 attendees.

Officers and Board members present included: Kevin, KA0VNY; Sean, AD0QG; Brian, KE0GKB; Dave, N0JSB; Dan, N0POT; Bill, WA9ASD

**Secretary's Report - Brian, "I'll Never be a court reporter" KE0GKB** - The minutes of the previous meeting, as published in Ham Hum are accepted with one Corrections. Witch should be which.

**Treasurer's Report - Dave, N0JSB** - In January the club accounts had starting balances of: Main Checking \$7859.57, Repeater Checking \$530.62 Savings \$1976.68, CD Life Member one \$6437.08, CD Life Member two \$6678.09, and CD Repeater \$1103.10 This leaves the balance of all the club accounts at \$24,585.14.

The club dinner had a charge of \$248.49, They charged us twice for one of the dinners, so they gave us a \$65.00 gift card and then I put \$65.00 in the main account to balance it out. We also had a \$20.00 donation to the repeater from CQG.

**President's Report - Kevin, KA0VNY** - I would like to say a few things, we have quite a few things going on and I would like to see more people start participating in some of these events. There is a core group that comes out time and time again, we need to get more of the club members involved if we can, We have the courtesy committee chair open right now if any one would be interested in that, it is just sending out a card when someone is in the hospital or passes away that is ham club related. I would also like to talk to each of the committee chairs after the meeting to see if they would like to make changes or if they are good to continue.

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**Vice President's Report - Sean, AD0QG** - Tonight's program will be on Triangles and how they pertain to ham radio.

**ARES/SATERN/COMMUNITY EVENTS**

**ARES Steve NOUP** - On January 26 and 27 we will be having winter field days at the Salvation Army building. General operations will be between 1:00 and 9:00 PM. Then February 9 from 1:00 to 3:00 PM we will have training on how to program your HT in the field. Then March 9 there will be two events, The Nebraska State convention and Lincoln Ham Fest in Lincoln, and Douglas county siren testing, and finally April 6 from 1:00 to 3:00 PM will be Packet Radio 101 also held at Salvation Army building.

**OMMRS - Mary, N0TRK** - No Report

**SATERN** - No report

**Community Events - Pat KOCTU** - May 17 and 18 is Nebraska State Track meet, we provide communications from the field events back to the press box and communication to the medical tent for emergencies at the field events. Museum ships weekend will be June 1 and 2. July 20 is communications support for Beat the Heat Race.

September 8 is communications support for the Corporate Cup Run and October 12 is the Market to Market Relay

**Education Committee - Help wanted-** See Kevin

**Membership Committee - Mary, N0TRK** - Pay your dues.

**Publications/Web Services**

**Ham Hum - Brian, WEOBEP** - No updates

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**Web Services - Mary, NOTRK/Adam, KDOMMG** - The website is working.

**Repeater Committee - John, WBOCMC** - The repeater is working fine. There appears to be some issues at the Council Bluffs site that are temperature related.

**Field Day - Adam, KDOMMG** - 2019 field day will be June 23 and 24, More information will be coming.

**QSL and Technical Committee - Eddy, KOIL** - No report

**Courtesy Committee - Help Wanted** - This position is open please see Kevin.

**Trailer/Equipment Committee - Mary, NOTRK** - No Report

**Public Awareness** - No Report

**Transmitter Hunt - Dave, NOJSB** - no hunt this month.

**Flea-Esta - Chris** - No Report

**Old Business** - No Old Business

**New Business** - John WBOCMC moved that next month's cookie fund be given to the Red Cross for the use of their building and that the club would contribute to make the total \$100.00. Steve NOUP seconded the motion. The club voted and passed the motion.

**Announcements** - John WBOCMC. Many of you don't know what goes on behind the scene on the repeater committee. We have been completely reorganizing the coordination database, Steve, NOUP has been entering the data by hand because it would not go from the old DOS program to the new system. We have sent out annual Update forms to everyone that has a repeater so please fill them out completely and proof read them especially this year.

Continued on Page 5

Bellevue ARC is having a training class starting tomorrow and running for three consecutive Saturdays.

**Door Prizes** - Door Prizes - Adam, KD0MMG - No drawing this month

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 7:28 PM, there being no more business before the club the meeting is adjourned.

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## The Program for February 2019

### Full Draw Antenna Hanging

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The next **Coffee and Conversation** is February 16th at the Village Inn --- 10770 M St, Omaha, NE

This is an Unofficial gathering of AARC members and other area ham radio operators to enjoy great food and talk about whatever.

Come on out... 6:30 PM — 9:30 PM.



## 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 **27 Feb 2019 at 6:30PM**, Peony Park Hy -Vee on Cass Street, Omaha. Unless further Notice, the board meetings are held on the fourth Wednesday of each month.

## Club Officers & Board Members

President	Kevin Hill	KAØVNY	president@aksarbenarc.org
Vice President	Sean Edwards	ADØQG	vicepresident@aksarbenarc.org
2018 Secretary	Brian Sohl	KEØGKB	secretary@aksarbenarc.org
2018 Treasurer	Dave Rice	NØJSB	treasurer@aksarbenarc.org
2019-2021 Director	Dave Rice	NØJSB	board@aksarbenarc.org
2019-2021 Director	Dan Buchholz	NØPOT	board@aksarbenarc.org
2018-2019 Director	Brian Sohl	KEØGKB	board@aksarbenarc.org
2018-2019 Director	Barb Westcott	KCØHLB	board@aksarbenarc.org
Immediate Past President	Bill True	WA9ASD	board@aksarbenarc.org

## Club Committees

Courtesy Committee	(Open)	(Open)	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

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](mailto: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). (Also works 440) Power rating: 300 watts, polarization: vertical. omni-directional. 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.

## Club Calendar

- Feb 8** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
- Feb 9** License Testing Bellevue ARC 11111 S 84th St Papillion, NE (Midlands Hospital) 1:00 PM
- Feb 9** Douglas County ARES training: Program your HT in the field w/o a computer. 1:00PM—3:00PM 10629 Burt Cir, Omaha, NE.
- Feb 13** Lincoln ARC meeting 7:30PM LI-COR (4647 Superior St, Lincoln, NE
- Feb 16** AARC Coffee and Conversation, 10770 M St, Village Inn Omaha, 6:30 PM (Corner of 108th and L Streets)
- Feb 20** 7:00 PM Heartland Hams Meeting, 403 Railroad Ave, Glenwood, IA
- Feb 21** Bellevue ARC Meeting 7:30 PM, 1908 Franklin St, Bellevue, NE
- Feb 28** 7:00 PM SWIARC Meeting,, 705 N 16th, Council Bluffs, IA
- Feb 28** 7:30 PM PARC Meeting, 1900 E. Military Road, Fremont, NE
- Mar 7** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE
- Mar 26** License Testing Omaha ARC, 6:30 PM 2912 S 80th Ave, Omaha, NE
  
- Apr .4** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE



## AKSARBEN AMATEUR RADIO CLUB 2019 BUDGET

<b><u>INCOME</u></b>		<b><u>EXPENSES</u></b>	
<b>Donations</b>		<b>Donations</b>	
Red Cross	\$50.00	Red Cross	\$200.00
<b>Meeting Refreshments</b>	\$275.00	<b>Meeting Refreshments</b>	\$400.00
<b>Membership</b>	\$1,600.00	<b>Membership</b>	\$100.00
<b>Flea Market</b>	\$2,300.00	<b>Flea Market</b>	\$1,775.00
		<b>Ham Hum</b>	\$1,000.00
<b>Interest/Bank Fees/Transfers</b>	\$50.00	<b>Interest/Bank Fees/Transfers</b>	\$30.00
		<b>Insurance (Liability)</b>	\$200.00
		<b>P O Box Rental</b>	\$100.00
		<b>Registrations</b>	
		Non-Profit Corporation Biennial	\$25.00
		Trailers	\$40.00
		<b>Web Site</b>	\$50.00
<b>Education</b>	\$200.00	<b>Education</b>	\$200.00
<b>Equip/Trailer Main't</b>		<b>Equip/Trailer Main't</b>	
Equipment	\$380.00	Equipment	\$100.00
		Trailers	\$125.00
		<b>Field Day</b>	\$250.00
		<b>QSL</b>	\$50.00
		<b>Activities</b>	
		Nebraska QSO	\$35.00
		Special Projects	\$25.00
		<b>Courtesy</b>	\$50.00
		<b>Programs/Thanks</b>	\$100.00
<b>Total Operating Income</b>	<b>\$4,855.00</b>	<b>Total Operating Expenses</b>	<b>\$4,855.00</b>

## WINTER FIELD DAY 2019

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Kevin KA0VNY setting up his Antenna at the Winter Field Day site and operated on the 40 Meter Band pictured below.

AARC operated "2 I" from the Salvation Army Emergency Disaster Services building at 10629 Burt Circle and had a great turn out.

The Salvation Army provided Hot Coffee, Donuts and Sandwiches.



Results have yet to be tabulated but most of the contacts were made on 40 and 20 Meters Further information will be available on [www.aksarbenarc.org](http://www.aksarbenarc.org)

Working the 20 Meter Band below are Russ-AD0QH while Ray-N00YV logs in the contacts on the computer. To the right is the 20 M antenna mounted on the roof.



Pat-K0CTU working 20 M as Sean-AD0QG observes.

## Grand Island HAMFEST

### CENTRAL NEBRASKA AMATEUR RADIO CLUB'S 58th ANNUAL VICTORIA SPRINGS STEAK-FRY

New Location: Bader Memorial Park [www.BaderPark.com](http://www.BaderPark.com)  
Chapman, NE 10 Miles Northeast of Grand Island.

July 27th and 28th 2019

## Lincoln HAMFEST

Nebraska State ARRL Convention Center

Saturday, March 9, 2019

84th and Havelock Ave, Lincoln, NE

### **Programs / Forums**

- T.H.O.R. Heartland Organization of Rocketry Presentation, Greg Rothman
- Matt Anderson, KAØBOJ, Nebraska Section Manager ARRL, "What's Happening in Amateur Radio"
- Joe Eisenburg, KØNEB, QRP HF Operating Set-Ups Including Power Supply, Radio and Antenna

**VE Exams offered from 9:00 am to 1:30 pm.**

### **Grand prize drawing at 2:30 pm**

- 1x – \$300 gift certificate to Associated Radio
- 2x – \$200 gift certificates to Associated Radio