



Ham Hum

December 13, 2019 Volume LXIX, Issue 12

The December meeting is the Clubs Annual Christmas Party and the Club will be providing sandwich fixings and sweet treats to be enjoyed after the election of the 2020 Officers.

In addition, some members will also provide Side Dishes and Dessert Trays. If you have a favorite side or dessert, please feel free to bring it in. There will be plenty of drawings for door prizes and all those door prize tickets you purchased throughout the year have been placed back in the "Pot" for the drawings. The Grand Prize is To be announced at the meeting. Dec 13th, 7:00 PM, Red Cross Bldg, Omaha.



AKSARBEN ARC Club Meeting – November 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 39 attendees. Officers and Board members present included: Kevin KA0VNY; Sean, ADOQG; Bill, WA9ASD; Brian, KE0GKB; Dan, N0POT; Dave, N0JSB

Secretary's Report - Brian, KE0GKB - The minutes of the previous meeting as published in Ham Hum are accepted with one correction, the repeater committee section was missing and should have read: Joe and I did some testing, Joe was coming back from Iowa and we wanted to test the coverage of the new channel 12 site, he was near Underwood and he contacted me to see if I was listening and said he would contact me again when he got closer to the Platt Valley. I know he was getting into the Council Bluffs receiver because the audio quality is slightly different than the main repeater. He called me again about a half hour later when he got to Sapp brothers. He had PL on and was able to talk with full quieting all the way to his driveway in Lincoln. What I did to make it work as well as it does is there is now a sixty Millisecond delay on the main receiver, that is about the time it takes for PL to activate. We use PL tone instead of a voting card system because it is probably not available for this system anymore, so if you are using the system pause for a second after you key your microphone so the full transmission is heard.

Treasurer's Report - Dave, N0JSB – As of October 31 the club accounts had balances of: Main Checking \$3,547.03 Repeater Checking \$412.45 Savings \$6,986.72, CD Life Member one \$6,463.71, CD Life Member two \$6,713.26, and CD Repeater \$1,108.36 This leaves the balance of all the club accounts at \$25,231.53.

In the month of October there were deposits of \$39.00 from Refreshments.

October Monthly expenses of \$306.93, this included \$26.24 for meeting treats, \$80.69 for Ham Hum supplies, and \$200.00 for Liability insurance.

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President's Report - Kevin, KA0VNY - We are still looking for a prize chair, if you are interested please see Mary, N0TRK or myself. Vice President's Report - Sean, AD0QG - I invited the Omaha Makers Group but, I do not see them here yet, if not we will do something else. ARES/Disaster Preparedness/

ARES Steve NOUP - No report

SATERN - Mary, N0TRK - We are planning on having an open house at the EDS building next Saturday between six and eight PM. Last year we had an open house during sweepstake so we operated as K0TSA and K0TSA took the division so, we will try to defend the title. If you think you will come to the open house let me know so we will know how much food to order.

The Salvation Army was given a large grant from the Kroc family, Of McDonalds Fame, to build these community centers. I met the director of the Kroc Center during the Patriot exercise and he suggest we start Jr. Satern so, as of Monday we will be doing some basic S.T.E.M projects with the kids for the next five or six weeks teaching basic electricity, Morse code, and radio. Then, the first weekend in January is Kids Day, we will have a better idea of what we can do for Kids Day after the group has seen the layout. We will be looking for some assistance for Kids Day so it would be a good opportunity to see the place if you haven't been there before.

Community Events - Pat K0CTU- no new events but we would like to say thank you to the volunteers who helped on the Market to Market Relay.

Education Committee - Rea N0REA- Congratulations to all the new Hams!

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Membership Committee - Mary, N0TRK - We have three new member applications, Suzanne Blackburn, KE0WYL, James Nelson W0JRN and Jay Cooper, KJ3DI. A motion to accept these applications was made by Norm, WA0JYD with a second by John, WBOCMC, after a brief discussion all applications were confirmed by a unanimous vote.

Publications/Web Services

Ham Hum - Brian, WE0BEP - If you are being nominated for any position I need a resume and picture for Ham Hum.

Web Services - Mary, N0TRK/Adam, KDOMMG - The website is up, there is some new equipment for sale listed so check it out.

Repeater Committee - John, WBOCMC - I wanted to clarify one thing, there is only one 94 repeater and two remote receivers, there has been some discussion that we have three repeaters.

Field Day - Adam, KDOMMG - No report

QSL and Technical Committee - Eddy, K0IL - No report

Courtesy Committee - Bill Snyder K0FJR - No report

Trailer/Equipment Committee - Mary, N0TRK - No report

Public Awareness - Jim, KA0KCV - No report.

Transmitter Hunt - Dave, N0JSB - no transmitter hunt this month.

Flea-Esta - Chris - No report

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Election Committee - Bill, WA9ASD - The election committee has been formed consisting of Myself, Sean AD0QG and Brian, KE0GKB. If you are interested or know of someone who is interested in one of these positions, please see one of us. Also, the elections will be held next month and the club will provide a meat tray, if you have a side or dessert that you could share it would be appreciated.

Old Business – No Old Business

New Business – No New Business

Announcements

John, WBOCMC and Pat, KOCTU would like to thank Scott, KA4ZZQ and Avery, K0KUP for their assistance in mounting an antenna on Pat's roof and installing the chimney mount on John's house. John is still in need of assistance doing the final installation of the antennas.

Bill KDOFJR also passed on that the SWIARC repeater 146.82 will be undergoing maintenance so don't be alarmed if the repeater might be down over the next couple of weeks. Door Prizes – Tickets are one dollar each or six for five dollars. All tickets will be held for the big drawing in December, but you must be present to win!

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.

There being no more business before the club, the meeting was adjourned at 7:24 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.

Friday

10:00 PM 224.760- Tone 146.2 Promote the Band 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.

2:00 PM 50.200 6 Meter Net

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

BOARD MEETING NOTICE

The next AARC Board Meeting is scheduled for **24 Dec 2019 at 6:30PM**, Peony Park Hy -Vee on Cass Street, Omaha. Board meetings are held on the fourth **Tuesday** 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	Bill Snyder	KDØFJR	courtesy@aksarbenarc.org
Education	Ray Blackburn	NØREA	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	Mary Joseph *	NØTRK	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

* NØTRK Mary is temporarily running Door Prizes, but only until Dec 2019. Looking for someone to run this for 2020.

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). (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

- Nov 9** License Testing Bellevue ARC, 1:00 PM 11111 S 84th St Papillion, NE (Midlands Hospital)
- Dec 11** Lincoln ARC meeting 7:30PM LI-COR (4647 Superior St, Lincoln, NE
- Dec 13** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
- Dec 18** Heartland Hams Meeting, 7:00 PM, 403 Railroad Ave, Glenwood, IA
- Dec 19** Bellevue ARC Meeting 7:30 PM, 1908 Franklin St, Bellevue, NE
- Dec 20** Heartland DX Association, 6:00 PM, Village Inn, 78th and Dodge, Omaha.
- Dec 21** AARC Coffee and Conversation, 10770 M St, Village Inn Omaha, 6:30 PM (Corner of 108th and L Streets)
- Dec 26** SWIARC Meeting, 7:00 PM, 705 N 16th, Council Bluffs, IA
- Dec 26** PARC Meeting, 7:30 PM, 1900 E. Military Road, Fremont, NE
- Dec 31** License Testing—Council Bluffs 705 N 16th St 6:30 PM
- Jan 2** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE
- Jan 8** Lincoln ARC meeting 7:30PM LI-COR (4647 Superior St, Lincoln, NE
- Jan 10** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE

Rea 'Ray' Blackburn originally licensed as n0oyv in 1991. My original exposure to the hobby/service was in the mid to late 60s.

Was active in public service i.e, American Red Cross, Skywarn, Douglas county ARES, Pottawattamie county ARES, have worked weather nets, damage assessment, parades, RAGBRAI, open houses, mostly 2 meters.

Was inactive for several years while parenting nine children.

Became active again about a year and a half ago after field day. Upgraded to General in 2018 and Extra in 2019. Changed my call to n0rea because it's my first name and easier to send in Morse code.

Since then I have been a Volunteer Examiner, and an ARRL Instructor. Just finished teaching a technician class with help from several other club members. Currently serving as the Education committee chair.

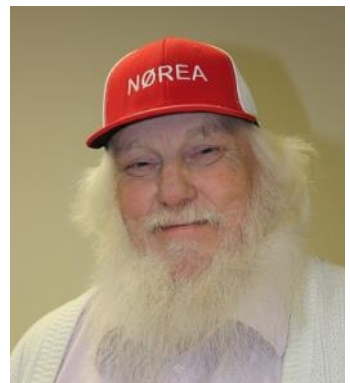
Looking for interest in general and extra class licenses. Also any thing else radio related you may be interested to learn more about.

I have gotten a taste of what operating portable is about and am excited to try my hand at contesting.

There is much to learn and do in this hobby/service. I love to learn and serve.

Other areas of interest include, being Santa, acting, performing musically, family history, spending time with grandchildren.

Some life experiences. Grew up in Phoenix. Spent about 12 years in the Air Force. Moved to Council Bluffs in '85 to take a programmer position. Programmed for 15 years. I've been working with developmentally disabled adults for the last 14 years. I'm an Eagle scout.



During a recent **Monday Info Net on 146.94 MHz, Rich (WA0ZQG)**, asked a question about Alessandro Volta, a pioneer in the field of electrochemistry, inventor of the Voltaic pile in 1799. Basically he was credited as the inventor of the electric battery. Rich also asked about Andre'-Marie Ampere, a founder of classical electromagnetism, which the name ampere is named after him. And finally he talked about Georg Ohm who found that there is a direct proportionality between the potential difference (voltage) applied across a conductor and the resultant electric current as we know today as Ohm's law.

After the net, I wondered about what I was told in grade school about electricity which I conclude was not as accurate as remembered (maybe I was just not paying attention because my head was up in the air thinking about air planes and battleships. I seem to recall a science topic about "Who Invented Electricity?"

Well, we should all know that electricity was not invented, that it was discovered because it has existed since the beginning of time. I could imagine that in the early days long ago one of the earliest Australopithecines was looking up at the clouds and was hit by a bolt of lightning which could have been the discovery of electricity.



But we were told that it was discovered by Benjamin Franklin—the year was 1752, during a thunderstorm demonstrated the connection between lightning and electricity as he launched a kite and collected an ambient electrical charge in a Leyden jar. He was interested in electricity in the mid 1740s and spent almost 10 years conducting electrical experiments. Part of his works included the lightning rod, used to protect buildings and ships. **However**, before Franklin, there was:

William Gilbert in 1600 published his notes in a treatise on the Magnet explaining his research and experiments on electricity and magnetism. Gilbert first used the term electric and invented the Versorium needle; presenting a true account of electricity and magnetism. Early Greeks found that rubbing fur against Amber created a Static discharge but may not have really known what it was. The Greeks believed that amber alone could be charged by rubbing. Gilbert, using his versorium proved the Greeks theory wrong. Besides amber, he was able to create an electric charge on diamond, sapphire, glass, sealing wax, and resin.

We can add to this list the toy balloon first made by J.G. Ingram in 1847 and still is used in amusement with children's hair at times. Also paper balloons since the 1890's called kamifusen have been popular children's toys in Japan, now illegal in Nebraska as being a fire hazard, but can still be seen in the night skies in July.

Nikola Tesla achieved dozens of breakthroughs related to electrical power. His research led to an enduring legacy in modern technology utilizing a rotating magnetic field that is the basis of alternating current used in electrical machinery today.

In Norway, an electric car, the Tesla Model 3, has become the top favorite for 2020.

Which is better; AC or DC ?

Thomas Edison being the proprietor of Direct Current where the electric charge flows only in one direction. As the name indicates, Alternating Current, not only does the electric charge change direction periodically, but also the voltage reverses because of the change in the current flow. Edison, in an effort to sell DC over AC electrocuted an elephant to show Alternating Currents' fatal dangers.

Direct Current major downfall was that transmitting it over long distances was difficult. In addition to the wires losing power and having to be rejuvenated using additional circuitry, upgrading or downgrading DC voltages required complicated circuits.

AC could not only be transmitted over long distances easily, but could also be conveniently converted to higher or lower values using transformers; a coiled up wire that "steps up" or "steps down" the magnitude of AC voltage. AC was cheaper and could carry power across long distances, therefore obliterating DC. However, a few decades later, the Transistor was invented at Bell Telephone Laboratories, a research arm of American Telephone and Telegraph, and successfully demonstrated on December 23, 1947.

Back to Ben Franklin — He collected an electrical charge in a Leyden Jar which was invented in 1745 (seven years earlier) in Holland by Pieter van Musschenbroek and in Germany by Ewald Christian Von Kleist nearly simultaneously. Any way, it was named after the guy in Holland's home town and university "Leyden". The German scientist, Von Kleist touched his Leyden jar one time and received such a powerful shock that knocked him to the floor; so it is said. Thus resulting in the original capacitor; a device that stores and releases an electrical charge. I can picture Ben Franklin running in from outdoors carrying his Leyden Jar and asking his wife Deborah Read to touch it.

B E Pitchanau WEOBEP

AARC Officer Nominations

We have once again reached the time of year for Club Officer nominations. This includes President, Vice-President, and Directors. Please consider volunteering for one of these positions.

President: _____

Vice-President: _____

Director: _____

Director: _____

Director: _____

Director: _____

Assess your dedication, position, and ability to accept a floor nomination. Help continue to keep AARC an ongoing strong organization. Realistically, it takes only a couple hours each month. If you are interested or willing to take a position please contact one of the current Club officers to discuss the details. Please consider helping.

AK-SAR-BEN ARC PROXY

This form is used to have your vote represented by a member attending the annual business meeting in the event you are unable to attend. If you cannot attend, decide on whom or what you wish to vote and instruct the recipient of your proxy to do so.

Known by all men by these presents, that the undersigned hereby constitutes and appoints _____ as attorney and proxy to appear and cast the votes which the undersigned, as a member of the AK-SAR-BEN Amateur Radio Club, Inc., is entitled to cast at the annual meeting of said corporation, to be held at the Heartland Chapter House of the American Red Cross, 2912 South 80th Avenue, Omaha, Nebraska on **December 13, 2019**, and at any adjournment thereof. The undersigned hereby instructs said attorney to of the corporation, and

Upon any other business which may properly be vote:

For the election of new directors and officers brought before the meeting of any adjournments thereof.

Member Signature: _____

Date: _____, **2019**