



# Ham Hum

October 2019 Volume LXIX, Issue 10

Matt Anderson KA0BOJ on the Branched Oak Observatory provided an update on the Observatory near Branched Oak Lake just East of Raymond, NE on NW 98th St off of West Raymond Rd. He talked about traditional telescopes as well as Radio Telescopes and all the updates that have been made to the site since 2015. An invitation was given to the public for the 2019 Star-BQ 21 September 2019. Which was postponed due to thunderstorms and rescheduled for October 5th.



As of the time of this publication, rain is also scheduled for that date too. Regardless of the Star-BQ You should plan a time during the year to visit the Star Observatory throughout the year to view the planets and stars. The next formal gathering is 11 Nov 2019 for



the Transit of Mercury, however this event will take place at the UNL Student Observatory on top of the Stadium Drive Parking Garage at the corner of N 10th St. and T St. (west side of Memorial Stadium). Besides observing, there will be activities for the kids and refreshments served. Visit any time between 7 and Noon (best views between 8 and 11am). Parking garage fees may apply. Volunteers from the Branched Oak Observatory, the local astronomy community, along with staff and teaching assistants from the UNL Dept. of Physics and Astronomy will offer SAFE solar views through a variety of white-light and h-alpha solar telescopes.

## **AKSARBEN ARC Club Meeting – SEP 13, 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 29 attendees.

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

**Secretary's Report - Brian, KE0GKB** - The minutes of the previous meeting as published in Ham Hum are accepted with no corrections.

**Treasurer's Report - Dave, N0JSB** - As of August 31 the club accounts had balances of: Main Checking \$1981.92 Repeater Checking \$412.45 Savings \$6,984.38, CD Life Member one \$6,454.77, CD Life Member two \$6,713.26, and CD Repeater \$1,106.41 This leaves the balance of all the club accounts at \$23,653.19. In the month of July there were deposits of \$69.70 Consisting of: \$35.00 from Refreshments, \$20.00 from membership, and \$14.70 from Amazon Smile. Monthly expenses of \$1,014.77 consisting of 24.04 for meeting treats, \$196.86 for Ham Hum supplies, and Flea Esta expenses made up of \$704.88 for prizes, \$36.35 for kitchen supplies and \$52.64 for copies. The Repeater Checking account had activity of \$138.17 for the Coax cable and connectors for the Council Bluffs repeater site.

**President's Report - Kevin, KA0VNY** - Barb, KC0HLB has informed me that she will not be running again for the board this December so just start thinking of who would be interested in filling that position. Also, we are looking for a volunteer to take over the duties of the Door Prize coordinator. In the interim Mary N0TRK will fill this position until the end of the year. If you would be interested, please see me.

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**Vice President's Report - Sean, ADOQG** - Tonight's program will be Presentation by Matt Anderson KA0BOJ on the Branched Oak Observatory.

### **ARES/Disaster Preparedness/**

**ARES Steve NOUP** - No report.

**SATERN - Mary, N0TRK** -I have been talking to Captain Gantner, who is the manager of the Salvation Army's Omaha KROC Center. As we were traveling to the Patriot Exercises Captain Gantner had this idea about incorporating SATERN into their Kids activities at the KROC Center. He has run this up the flagpole to territory and they are all excited about it. Then finally getting together with him and his staff yesterday we formed an outline as to what that would involve. They are looking to engage their kids in STEM activities with radio. It is not about getting the kids licensed because when I was nine or ten the last thing I wanted to do was study for another test but if we can get them interested in radio and electronics and other stuff. Captain Gantner is looking to form this into activities for one of their kid's club. The game plan is to start something between now and ARRL Kid's day which is the first weekend in January, we would then do kids day from the Kroc center. This could include working with the kids on "Snap Circuits, FRS radios, or other activities. This would be a great opportunity for AARC and to get SATERN more well know within the Salvation Army organization. You do not need to be a SATERN member to volunteer so if you are interested please see me after the meeting.

One of our new members asked what SATERN is. A brief description of "Salvation Army Team Emergency Radio Network" was given with comparisons to ARRL ARES and other organizations.

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**Community Service - Pat KOCTU-** Thanks to those who helped on the Corporate Cup run. There is the Crop Walk for Hunger coming up next month, I haven't heard from them yet, but I will be in contact with them to see if they need some communication assistance.

Then on October 12 will be the Market to Market Relay. This is a relay race that runs between Omaha and Lincoln and they have exchange points every three to five miles. Aksarben ARC covers the first nine exchanges and we have radio operators at each site. The operator will pass on information about where the runners are, report any medical issues, and other information as needed. If you are interested in assisting please contact Mary, N0TRK.

**Education Committee - Rea N0REA-** we have one more lesson night then we are testing on September 24<sup>th</sup>, We have fifteen people attending and we hare hopping to have at least ten new hams.

**Membership Committee - Mary, N0TRK -** Stephen Higgins KE0W0V submitted his application to join AARC club. Stephen is a newly licensed ham and was granted his Technician class license on August 20,2019. A motion to accept this application was made by Mary N0TRK with a second by John N2AO, after a brief discussion the application was confirmed by a unanimous vote.



**Publications/Web Services Ham Hum - Brian, WEOBEP -** This time of year I do not have any problems getting content, it gets filled up with bios of people running for leadership positions. This fills it up to about sixteen pages which is my limit for first class postage.

**Web Services - Mary, N0TRK/Adam, KDOMMG -** The website is working.

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**Repeater Committee - John, WBOCMC** - There was a problem with the receiver at channel 12, I was down there about a week ago and things didn't seem right, we installed the spare receiver and when I got it home to my bench I found a cold solder joint on one of the memory boards. It has been repaired and is back out at the channel 12 site.

**Field Day - Adam, KDOMMG** - No report

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

**Courtesy Committee - Bill Snyder KD0FJR** - Three cards sent out this month to Arnold Grubbs KA0NCR whose father passed away, and to the families of James Thomas N00FQ who became a Silent Key on August 7, 2019 and Russell Michaelson N7SM who became a Silent Key on August 18, 2019.

**Trailer/Equipment Committee - Mary, N0TRK** - No Report

**Public Awareness -KA0KCV** No Report.

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

**Flea-Esta - Chris** - Flea-Esta is over, we had 136 attendees plus 42 vendors, so we had around 175 total which is good. We are going to make a profit, but I am waiting on a check before we can get the final numbers.

**Old Business** - No Old Business

**New Business** - No New Business

### **Announcements**

SWIARC will be doing a "parks on the air" activation at the Manawa state park, south side of the lake. Food will be available

There are two new radio clubs with vanity call signs. They are Child Evangelism Fellowship ARC KOCEF and the Branched Oak Observatory ARC N0B00

**Door Prizes** - Door prizes are back. 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!

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## 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 **22 Oct 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](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

- Oct 9** Lincoln ARC meeting 7:30PM LI-COR (4647 Superior St, Lincoln, NE
- Oct 11** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
- Oct 16** Heartland Hams Meeting, 7:00 PM, 403 Railroad Ave, Glenwood, IA
- Oct 17** Bellevue ARC Meeting 7:30 PM, 1908 Franklin St, Bellevue, NE
- Oct 18** Heartland DX Association, 6:00 PM, Village Inn, 78th and Dodge, Omaha.
- Oct 19** AARC Coffee and Conversation, 10770 M St, Village Inn Omaha, 6:30 PM (Corner of 108th and L Streets)
- Oct 24** SWIARC Meeting, 7:00 PM, 705 N 16th, Council Bluffs, IA
- Oct 24** PARC Meeting, 7:30 PM, 1900 E. Military Road, Fremont, NE
- Oct 29** License Testing Council Bluffs, 6:30 PM, 705 N 16th St
- Nov 7** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE
- Nov 8** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
- Nov 9** License Testing, Bellevue ARC at Midlands Hospital, Papillion, NE 1:00 PM
- Nov 26** License Testing Omaha ARC, 6:30 PM 2912 S 80th Ave, Omaha, NE



## Minutes — Continued from page 5

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 7:32 PM.

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**The next Coffee and Conversation is October 19 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.**

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## RADAR

Radio Detection and Ranging started with experiments by Heinrich Hertz , a German physicist in 1886-1888. He found that radio waves would reflect off metal surfaces.

Guglielmo Marconi noticed radio waves were being reflected back to the transmitter by objects in radio beacon experiments he conducted in 1899.

In 1916 Marconi and British engineer Charles Franklin used short-waves in experiments, critical to the development of radar.

Christian Hulsmeyer, in 1904 gave demonstrations using radio echoes to detect ships so that collisions could be avoided. He patented the device, called the telemobiloscope, but due to lack of interest by the naval authorities the invention was not put into production. It was not until the 1940s was radar technology further developed.

# 2019 AARC

Once again, The Flea-Esta was a successful event as mentioned in the minutes posted on page 5. Some pictures of this annual event posted by Bill, KCOSVZ.



# Flea—Esta





The Big Raffle Prize Winners at the Flea Esta were from Lincoln, NE Alan Boldt, KD0RIY, who won the YAESU FT-2980 144MHz Transceiver with multiple power settings allowing the user to choose the power they want for their operating style and situation.



Also from Lincoln, NE, James Gibbs, WG1BBS Won the 1,000 WATT Inverter Generator.

Ideal for field day use, as well as camping and tailgating.

Runs extremely quite at only 56 db.