



AK-SAR-BEN Amateur Radio Club,inc

# Ham Hum

August 13, 2021 Volume LXX, Issue 8

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August 2021 Ramblings from Your President Pat W00JU

**Window Decals** If you received your mailed copy of HamHum, you should have found in your envelope, the new AARC window decal. If you want additional decals come to any AARC meetings and you get additional decals for \$2 each. If you get your HamHum digitally you can send our treasurer your address, check, and how many decals you want for the exact same low price of \$2 each and we will include free delivery (i.e. hand delivery, mail, or in the next version of FT8, just kidding about FT8).

**Club Patches** The club patches are in and they are beautiful. Club patches may be more difficult to mail but we are working on it. Best solution is to come to a club meeting at the American Red Club on the second Friday of each month and get your first patch for FREE! We are working on the price for additional patches. Get them now as they will soon become a collector's item.

**August Club Presentation** It has been a while now since we have heard as to what is new in the Amateur Radio Emergency Service. This month's program is by James Nelson W0JRN, ARRL District Emergency Coordinator for Southeast Nebraska. He promises an informed view into the world of ARES in our region. Presentation will be 30 minutes with time for questions and answers.

**Club Picnic** Please mark your calendar. Our 2021 AARC Club Picnic is Sunday September 19 from 2-6 p.m. and is open to all paid up AARC members and their immediate family. This year's event is at the Walnut Creek picnic pavilion/shelter in Papillion, Nebraska. Howard Park's our club vice president has agreed to chair this year's event and he will have more details at our August Club meeting. The board wants to discuss at the August Club meeting opening the picnic to other local ham clubs to build collaboration and ham fellowship. It will be another great opportunity to place a face with a callsign and a signal on the air.

Field Day certificates and awards will be presented at the picnic. Howard will be forming a committee to plan out the event etc and volunteers are appreciated.

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## AKSARBEN ARC Club Meeting – July 9, 2021

The meeting was called to order at 7:00 PM in person and on Zoom. There were 34 attendees.

Officers and Board members present included: Pat, W00JU; Howard, AE0Z; Dan, N0POT; Dave, N0JSB; Rea, N0REA; Brian, KE0GKB.

**Secretary's Report - Brian, KE0GKB** - The minutes were posted in the Ham Hum. A motion was made by REA, N0REA with a second by John AB0ZT that the minutes be approved with no corrections. The motion carried.

**Treasurer's Report - Dave, N0JSB** - As of June 30 the club accounts had balances of: Main Checking \$4,319.04, Repeater Checking \$382.60 Savings \$6,995.83, CD Life Member one \$6,537.67, CD Life Member two \$6,790.88, and CD Repeater \$1,114.08 This leaves the balance of all the club accounts at \$26,140.10.

In the month of June there were deposits of \$140.00 from Membership dues.

In the month of June there were expenses of \$750.00 for Patches and decals.

**President's Report - Pat, W00JU -**

The 6-Meter EME project is still ongoing, the antenna has been delivered today and it will be brought to Dave N0JSB so he can complete work on the Mount. We are still assembling all the components that will be needed to make this system work We need a generator that can deliver 220 volts at 30 amps.

We are still planning to do this event at Offutt Base Lake, and we hope this event can run several weekends so we can allow many Hams to have their call sign added to the EME record book as possible.

The board approved the purchase of 500 4-inch window decals of the club's new logo. All members will receive one Decal and additional decals can be purchased for \$2.00 each that will include postage.

Five Hundred Patches have also been purchased and we are waiting for deliver of the order. They will be available to club members by the August meeting.

We are planning a club Picnic in September. Several locations have been suggested and we will have more information at the August meeting.

Keith KE0AEP also presented information on the Saturday morning gathering at Lake Manawa.

**Vice President's Report -Howard, AE0Z** - tonight's program will be "Radio Archology" by Mitch W0JG

Next months program will be "What's New in ARES" by Tom W0FRM

**Education Committee - Rea N0REA-** I will need to step down as education chair for personal reasons. VE Testing sessions will be the last Tuesday of each month at the Red Cross building in Council Bluffs. There will not be a testing session in December.

**Membership Committee** - two new members were presented to the club. Marty Beutler AE0NR, and Christopher Smith KF0FBL.

A motion was made by Bill KD0FJR with a second by Rea N0REA to accept these applications. The motions passed by unanimous vote.

**ARES** - no report

**Satern** - No report

**Community Service.** No report

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**Repeater - John WB0CMC** - The repeater was reported to be operating at low volume. A defective pot was replaced, and the repeater is now working as expected.

**Courtesy committee - Bill KD0FJR** Cards were sent out to the families of three silent keys: Darin Piatt W9HZC, William Lowther W8UWL and Dale Nispel N0EAH.

**Web Services** - No report

**Field Day** - the club needs a Chair for the field day committee if you are interest in the position, please contact [board@aksarbenarc.org](mailto:board@aksarbenarc.org).

Please check the ARRL website for the latest rules for this year's field day.

**Flea Esta** - Dennis K0YKN present more information on the Joint flea market with Bellevue ARC and Aksarben ARC now named "AARC-BARC" (Ark Bark)  
It was decided that the event will be held Saturday October 2<sup>nd</sup> at the Reed Community center in Bellevue. The expenses and profits will be split between the clubs. Each club is responsible for their own Raffles and the proceeds will not be shared between the clubs.

The Cornhuskers play in Lincoln at 7:30 PM so that date would not conflict with our Hamfest.

**Publications** - no report

**Old Business:** no old business

**New Business:** no new business.

For the latest news and announcements please check the website or Facebook.

There being no more business before the club the meeting was adjourned at 7:45.

## Club Officers & Board Members

President	Pat Connell	WØOJU	president@aksarbenarc.org
Vice President	Howard Parks	AEØZ	vicepresident@aksarbenarc.org
2018-21 Secretary	Brian Sohl	KEØGKB	secretary@aksarbenarc.org
2018-21 Treasurer	Dave Rice	NØJSB	treasurer@aksarbenarc.org
2021-2022 Director	Dave Rice	NØJSB	board@aksarbenarc.org
2021-2022 Director	Dan Buchholz	NØPOT	board@aksarbenarc.org
2020-2021 Director	Brian Sohl	KEØGKB	board@aksarbenarc.org
2020-2021 Director	Ray Blackburn	NØREA	board@aksarbenarc.org
Immediate Past President	Sean Edwards	ADØQG	board@aksarbenarc.org

## Club Committees

Courtesy Committee	Bill Snyder	KDØFJR	courtesy@aksarbenarc.org
Education	Ray Blackburn	NØREA	education@aksarbenarc.org
Field Day	Adam Kavan	KDØMMG	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	Open	Open	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	
Vol. Council	Brian Zdan	KMØY	testing@aksarbenarc.org
NE Section Manager	Matt Anderson	KAØBOJ	ka0boj@arrl.org
VE Exams/ARRL Liaison	Ray Blackburn	NØREA	testing@aksarbenarc.org

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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 147.360 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 3.897.500 3900 Club.

8:30 PM Locally IRLP and the Nebraska IRLP net is heard on:

145.410 - 97.4 PL AB0VX Honey Creek

444.800 + 97.4 PL AB0VX Honey Creek

444.925 + 136.5 PL K0BVC Mondamin

146.745 - 136.5 PL K0BVC Portsmouth

223.580 (Simplex) 100 PL K0OQL North Omaha

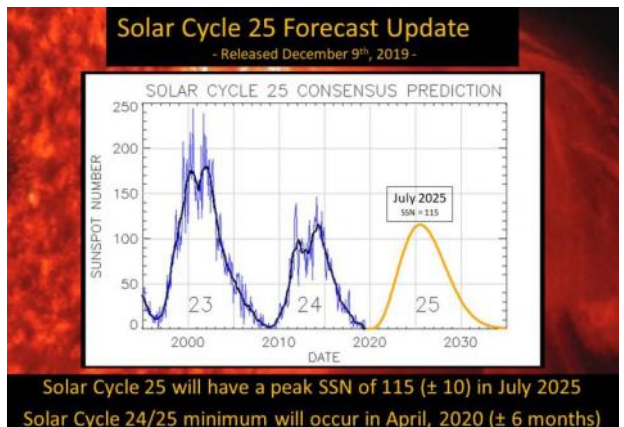
2:00 PM 50.200 6 Meter Net

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

## Sun Spots and Radio Propagation

Sunspots affect radio propagation by ionizing the layers of the ionosphere.

Large concentrations of ionization in the ionospheric layers increase its ability to bend the HF radio waves and to return the signal back to earth at huge distances from the transmitter to the receiver. You may have heard about the 11 year solar cycle experienced by the Sun. During the solar cycle, the Sun's stormy behavior builds to a maximum, and its magnetic field reverses. This means that the Sun's north and south poles switch places. Then the Sun settles back down to a minimum before another cycle begins. This 11 year activity is tracked by counting how many sunspots are counted by solar scientists. That's been done since 1755, which is classed as Solar Cycle 1. What causes this 11th cycle? It appears to be driven by alignment of the Planets. Venus, Earth, and Jupiter assert a small gravitational tug on the Sun as they orbit it. On the subject of Ionization, have you ever wondered what those fixtures emitting a blue light mounted on the walls in some restaurants? Some are mounted in HVAC systems for homes as well as industries. Air Ionization Technology is proven to Reduce Coronavirus Surrogate by 99% Airborne and 80% on Surfaces in 10 Minutes. It Aids in Neutralizing Odors, Allergens, Bacteria, Viruses, Mold Spores, and Volatile Organic Compounds (gases emitted from certain solids or liquids. Back to radio propagation; The 11 year solar cycle also has an effect on GPS performance. Positioning errors, along with communications and power grid problems, are consequences of increased solar activity. The presence of sunspots indicates solar activity which affects the ionosphere's ability to refract radio signals back to Earth. In simplest terms, fewer sunspots means less solar activity, which leads to a heck of a lot of frustrated Hams. As mentioned above Solar Cycle 1 was documented in 1775. We are now in Cycle 25 which peaks about July 2025.



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### **Ark-Bark" Hamfest**

Will be held on Saturday, October 2nd at the Reed Community Center (1200 Lord Blvd in Bellevue) from 9 to 1 p.m. Admission: 16 years and up \$5.00, Below 16 years-free. Table rentals: \$10 (does not include admission) Contact Dennis Mitchell (KC0YKN)(E-Mail: KC0YKN@cox.net) or (cell: 402-690-2587) to reserve tables. Payment must be received within two weeks of reservation to confirm. Please mail table rental checks (made out to "Bellevue Amateur Radio Club") to: Ark-Bark Hamfest, 8519 S. 47th Ave., Bellevue NE 68157-2639.

The grand door prize drawing for an AnyTone AT-868UV dual-band handheld radio will be held at 12: 00pm. Additional door prizes (need not be present to win):

ARRL: One \$50 and two \$25 gift certificates

N3FJP: Ham Radio Software Package gift certificate

HamTestOnline: 2 Technician, 1 General & 1 Amateur Extra course coupons

There will be lots of ham treasures for sale I heard that W00JU has bought two tables to find new homes for a lot of his toys! Reminder this is a joint event between AARC and the BARC club and we expect this to be a big event. Hope to see you then.

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**The Market to Market Relay Race.** Volunteers will be needed on **September 25<sup>th</sup>** to help with the craziest foot race you have ever seen. The M2M is a relay race between Omaha and Lincoln. It is run mostly along trails and a few country roads. Our job is to help make sure that the teams and all their members make their way safely from the start at Ak-Sar-Ben Village to the Platte River. Once there, we hand the responsibility off to the Lincoln Amateur Radio Club, who make sure that they go the rest of the way to Lincoln. Approximately 650 teams (made up of 6 to 8 runners) start in waves 20 minutes apart, starting at 5:00 am and the last wave will start at 9:40 am. Each leg of the relay is between 2.5 and 6 miles long. Each exchange point is staffed by at least one, but preferred 2 hams along with a variety of other volunteers who manage the "baton" exchange. Exchange point volunteers have different starting and ending times throughout the day. Start times for volunteers range between 4:30 am to 8:45 am. Shift ending times are between 10:00 am and 3:00 pm. There will be a shift matrix posted soon so you can plan your time to help out. Mostly our job is to report when the first runner arrives and when the last runners of the day depart. We also help make sure that the teams are following the rules that might be a safety concern (overly large team transport vehicle, improper vehicle operation) and of course help report medical needs as well. If you volunteered for this super fun event in the past, watch your email, you will receive one with details soon. If you would like to help staff an exchange point email [market2market@aksarbenarc.org](mailto:market2market@aksarbenarc.org) for updates on the latest information including when and how to sign up.