



# Ham Hum

May 2019 Volume LXIX, Issue 5

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The AARC program on 12 April 2019 was provided by George Bellairs, KBOZZT; on Digital Mobile Radios (DMR).

George's presentation on DMR from early development to its use today. Emphasizing on digital vice analogue processes and how the technology has grown. The use of WIFI and internet and with the timeslots setup allowing local communication to state wide to North America and



world wide. He discussion included examples of some radio manufactures as well as their estimated costs. He talked about how the Time Division Multiple Access (TDMA) allowing 2 conversations on same repeater at the same time. Superior voice/audio over analogue. Longer battery life and greater power efficiency. That DMR can be used for text messaging as well as voice communications.

Some web sites on DMR: <https://www.dmr-marc.net>

<http://trbo.org> and go into the c-Bridge Information tab at the top.

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## The Program for MAY 10, 2019

**Matt Anderson KA0BOJ, ARRL Section Manager. However, meeting location may still be at the Salvation Army, 10629 Burt Circle. Check our web site.**

## **AKSARBEN ARC Club Meeting – April 12, 2019**

The meeting was called to order at 7:02 PM by saying the Pledge of Allegiance followed by introductions by name and call. There were 33 attendees.

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

**Secretary's Report - Brian, KE0GKB** - The minutes of the previous meeting as published in Ham Hum are accepted with one correction, Ray, the education Committee chair's call sign is N00YV.

**Treasurer's Report - Dave, N0JSB** - As of March 31 the club accounts had balances of: Main Checking \$3,096.19 Repeater Checking \$550.62 Savings \$6,978.53, CD Life Member one \$6,445.87, CD Life Member two \$6,690.01, and CD Repeater \$1,10.44 This leaves the balance of all the club accounts at \$24,865.66.

In the month of March there were deposits of \$303.00 Consisting of: \$31.00 from Refreshments, \$140.00 from membership dues, and \$123.00 from equipment sales. Monthly expenses of \$131.34 consisted of \$25.34 for meeting treats, and \$106.00 for P.O. Box rental

**President's Report - Kevin, KA0VNY** -We did get a thank you from the Red Cross for the donation of \$150.00.

Vice President's Report - **Sean, AD0QG** - Tonight's program will be "DMR Radio"

### **ARES/SATERN/COMMUNITY EVENTS**

**ARES Steve N0UP** - Not a lot of activity and we are waiting for the flood waters to recede. The next ARES event will be after the state track meet and before the fourth of July.

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

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**SATERN** - There was an introduction to SATERN meeting this past Saturday so thank you to those that attended. If you are interested in volunteering, please see me after the meeting.

**Community Events - Pat K0CTU** - May 17 and 18 is Nebraska State Track meet. If you are interested in volunteering or would like more information on what we do for them, please see me after the meeting.

**Education Committee - Ray N00YV**- we are tentatively looking at having a class for technician starting Tuesday July 30 for eight weeks with a test date of September 24.

**Membership Committee - Mary, N0TRK** - Tonight two people have expressed interest in joining the club. They are Joel Ellis KD0SBB and Rich Albright K0TMO. After a very brief discussion a motion was made by Mary N0TRK with a second by Pat W00JU, they were approved by unanimous vote. Welcome new members.

**Publications/Web Services Ham Hum - Brian, W00BEP** - we are looking for human-interest stories for the HAM HUM please see me.

**Web Services - Mary, N0TRK/Adam, K00MMG** - The website is working.

**Repeater Committee - John, W00CMC** - Russ and I got over to the Council Bluffs and channel 7 sites and slightly adjusted the levels, we have not had the repeater keying up since then.

**Field Day - Adam, K00MMG** - Mary reported that the committee meet last Saturday and looked at a site over by Boys Town, there were concerns that the ground may be too soft for vehicles, Other sites are not available due to the flooding so the current

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is to change the clubs designation from an Alpha to an emergency station and work from the Red Cross site. This could change if flooding continues.

**QSL and Technical Committee - Eddy, K0IL** - No report

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

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

**Public Awareness** - No Report

**Transmitter Hunt - Dave, N0JSB** - is anybody interest in doing the rabbit hunt this Sunday at freedom park please see me after the meeting otherwise we will put it off for another month.

**Flea-Esta - Chris** - Looking for door prize ideas.

**Old Business** - No Old Business

**New Business** - No New Business

**Announcements** John, WB0CMC we have a new computer and router at the DSTAR site, and you can talk world wide now. It was an effort by many people and about the only thing to do at First National is change out the antenna to eliminate the noise.

**Door Prizes** - Door Prizes - Adam, KD0MMG was not present so there will be no drawing tonight.

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 7:22 PM.

## Horizontally Polarized vice Vertically Polarized

The signals from a horizontally polarized antenna have lower losses when reflecting from the ground. This is because horizontal polarization of the wave induces currents that flow along surface of the ground. Vertical polarization tends to induce currents that flow vertically in the ground, where losses are higher. Radio waves reflecting from the ground have lower losses when polarization of the wave is parallel to the ground. That is, when the waves are horizontally polarized. Because the reflected waves combine with the direct waves (not reflected) to make up the antenna's radiation pattern, lower reflection loss results in stronger signal strength. Ground-mounted vertical antennas, however, are able to generate stronger signals at low angles of radiation than horizontally polarized antennas at low heights. This means they are often preferred for DX contacts on the lower HF bands where it is impractical to raise horizontally polarized antennas to the height necessary for strong low-angle signals.

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The next **Coffee and Conversation** is May 18 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.

## 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.

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

## BOARD MEETING NOTICE

The next AARC Board Meeting is scheduled for **23 April 2019 at 6:30PM**, Peony Park Hy-Vee on Cass Street, Omaha. 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	Ray Blackburn	NØOYV	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

- May 8** Lincoln ARC meeting 7:30PM LI-COR (4647 Superior St, Lincoln, NE
- May 10** AARC Meeting, 7:00 PM, Red Cross, 81st & Spring St, Omaha, NE
- May 11** License Testing, Bellevue ARC at Midlands Hospital, Papillion, NE 1:00 PM
- May 15** Heartland Hams Meeting, 7:00 PM, 403 Railroad Ave, Glenwood, IA
- May 16** Bellevue ARC Meeting 7:30 PM, 1908 Franklin St, Bellevue, NE
- May 17** Heartland DX Association, 6:00 PM, Village Inn, 78th and Dodge, Omaha.
- May 18** AARC Coffee and Conversation, 10770 M St, Village Inn Omaha, 6:30 PM (Corner of 108th and L Streets)
- May 23** 7:00 PM SWIARC Meeting,, 705 N 16th, Council Bluffs, IA
- May 23** 7:30 PM PARC Meeting, 1900 E. Military Road, Fremont, NE
- Apr 30** License Testing Council Bluffs, 6:30 PM, 705 N 16th St
  
- MAY 28** License Testing Omaha ARC, 6:30 PM 2912 S 80th Ave, Omaha, NE
  
- Jun 6** License Testing Lincoln ARC, 6:30 PM, 2701 N 48th St, Lincoln, NE

**Meet Howard Parks AE0Z** Born in Texas, 1962, my family later emigrated to the U.S. and settled in a small university town in Wisconsin called White-water. I had some early brushes with the hobby. I heard about ham radio from an 8th grade science teacher whose callsign I don't recall. This would have been around 1976. One of my dorm floormates at UW-Madison was a ham and invited me to see the university club station. That would have been 1981 or so. The main engineering building



had two wings and I remember seeing an antenna strung between them, probably a G5RV or a close relative. I didn't pursue either opportunity at that time. Nearly 20 years later, now working as a computer programmer in Milwaukee, I saw an article in the local paper, probably about Field Day, and decided to look into it. The local library had half a dozen books, which were out of date about licensing levels and requirements. I found that out on the new fangled Internet. I downloaded the question pool and wrote a program in QBasic to produce practice exams. I knew I eventually would upgrade and decided to take the Morse code exam right away. I found a free program to use for that. I did some additional reading, online and off, and after a month I was getting high scores on my practice tests to take the tests. I passed both elements at the end of October 1999. I joined the club who's VEC had administered the test, the Milwaukee Radio Amateurs Club, one of the oldest continuously operating clubs in the country (1917) and also one of the first VECs. I missed Field Day the next year, but made it in 2001, and that really set the hook in deep. I have tried very hard since to never miss a Field Day. When I got licensed, I was in a period where I had a lot of free time, relatively. I knew also that studying for the General was going to be much more difficult than for the Technician, and to stick to that I would need to take advantage of my newbie enthusiasm. The two factors enabled me to study some on my own, and participate in a study group, and I passed the General exam less than a year after the Tech.

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**HOWARD PARKS, Alpha Echo Zero Zulu:** (Continued from Page 9)

Having made it this far, I was determined to reach the top. At the time, I was also interested in becoming a VE, and reaching Extra would make me more useful to the team. It took about a year and a half of very laid back self study to get ready for the Extra. After the General exam, it was a bit of a let-down. I brought a slide rule to the exam session instead of a calculator, just to amuse the VEs. The Milwaukee area has fine repeaters and active nets, and that composed most of my activity. I was a very enthusiastic Field Day participant as well. When I was first studying, I found the idea of doing public service events very interesting, but never was able to take advantage of any opportunities. Following 18 months of unemployment in Milwaukee, we moved to Omaha, NE area for a job in 2010, and I quickly found the Bellevue Amateur Radio Club. BARC participated in several public service events, so I was finally able to reach that goal. The MS Ride has been a yearly practice, and other events as well. After several years in Bellevue, we moved into Omaha proper in 2017.

I joined the Aksarben Amateur Radio Club in 2018, and that has opened other public service opportunities, the Market to Market relay, for one.

I had looked into a vanity call several times but never found one I particularly wanted. Having changed zones opened some additional possibilities, and **AE0Z** had a nice ring to it. "Alpha Echo Zero Zulu".

After attending the NWS weather spotting class in an erratic fashion over the years, in 2019 I decided to join REACT. More public service opportunities! My goal this year is to get some kind of HF antenna up, probably something end fed stuck in the attic. I have the parts for a dual band vertical dipole for 2m and 70cm that I really need to assemble one of these days. I am strictly battery powered for the moment; another project is a battery cart suitable for operating mobile.

73 de AE0Z

## Who is Anton Reeh ?

We know him as Mr. Reeh. Anton Reeh grew up as the son of a poor farmer in Kaszkaastan in the 50s and 60s. His father raised grains and was quite good at it but under the communist system much of his crop went to the state, with only a small portion left to feed his family and to take to market to sell. One of the problems with the local market was that they brought their grain in baskets and had nothing to put it in to sell the small portions sold. Many customers used their wool and cotton sacks to take their grain but the sacks soon wore out and leaked grain as they returned home.

Anton, seeing the problem began to experiment with the stalks from the grain and was eventually able to spin a coarse fiber from the stalks that could be woven into a small sack. While crude, the fiber was strong and did not wear out. Soon he was able to sell a few sacks to customers at the market. As word spread of his sacks soon local bankers and merchants began to come to him for sacks to hold their coins. Since the coins were crudely minted they had rough edges and worn out the more common sacks. Anton's sacks were able to hold the coins and lasted a long time. Soon he was begging his sisters and brothers to weave the sacks and actually pay them a small amount due to the success of sales. With his sisters and brothers weaving the sacks, Anton had more time to help his father with the grains and explore. His exploration soon led him to an elderly neighbor who raised a few pigs. Anton befriended the old man and soon was helping him take care of his pigs. The old man told Anton he could not pay him but from the next litter, Anton would get one of the piglets.

When the piglets were born, sure enough, the old man gave one to Anton. Soon Anton was feeding and caring for his own pig as well as the old man's. His father told him that it would be a great day when the pig was grown so they could butcher it and have fresh meat, a rare occurrence. Anton, who was fond of the pig thought that would be a sad end to his animal raising. What he needed was a boar to impregnate the sow so that there would be more pigs.

(to be continued .....)

## **The Missing Q signal** John Queen, KA0SEY & Mike Colyar, K7ITL.

Additions by Thom LaCosta K3HRN and members of QRP-L

- QAS - I am speaking out of my ass
- QAS? - Are you speaking out of your ass?
- QBA - My antenna is BIG!
- QBA? - How big is your antenna?
- QBO - Don't sit next to that guy in the meeting.
- QBO? - Buddy, can you spare some soap?
- QBS - It's getting deep in here.
- QBS? - Did I tell you about the one that got away? Alternate suggested by ken cubilo w8ob
- QBS - Clean the bird sh\*t off your antenna so you can hear me
- QBS? - Should I clean the bird sh\*t off my antenna so I can hear you
- QCP - I am using Cat Power(From Rotary Cat Power Wheel) Suggestions made for spark gap transmitter on QRP-L mailing list
- QCP? - Are you using Cat Power?
- QCW - I am going to whistle Morse Code on FM (or SSB)
- QCW? - Why are you whistling Morse?
- QDR - Damn Right the frequency is busy!} In response to QRL
- QDR? - Do you have a Receiver?} In response to QRLContributed by Don Melcher = W6ZO
- QET - Phone home.
- QET? - Has anyone called me from another planet?
- QEW - Copy is difficult due to Ear Wax.
- QEW? - Is copy difficult due to Ear Wax? Contributed by John L Sielke W2AGN