



HAM HUM

Published by
AK-SAR-BEN AMATEUR RADIO CLUB, INC.
Post Office Box 291 — Downtown Station
Omaha, Nebraska 68101



Vol. XXXIII
No. 8

August 1983



HAM HUM is the official organ of the Ak-Sar-Ben Radio Club, Inc. of Omaha, Nebraska, mailed monthly to all members and to others upon request.

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Dues-Annual Basis

(Due and Payable each January 1.)

New member initiation fee \$1.00
Regular member \$10.00
Regular member and spouse .. \$12.00
Student member \$4.00

Published by:
AK-SAR-BEN AMATEUR RADIO CLUB,
INC.

Post Office Box 291
Omaha, Nebraska 68101

President Bill Martin, N0ANQ

Phone: 451-4988

Editor Dick Eilers, W0YZV

Res.: 397-3999

Phones: Bus: 342-1402

X-200

Assistant Editor John Snyder,

W0WRT

Res: 556-1538

Phones: Bus: 390-4622

Copy Deadline for Sept. is Aug. 19

Dues-Quarterly Basis (For each quarter or part thereof for balance of calendar year.)

New member initiation fee \$1.00
Regular member \$3.00
Regular member and spouse .. \$3.60
Student member \$1.05

NEXT MEETING

WHEN: Friday, August 12, 1983

TIME: 7:30 P.M.

WHERE: Heartland Chapter
American Red Cross
38th and Dewey Avenue
Omaha, NE 68105

PROGRAM: (Not available at press time)

PREZ SEZ

Well, it is the day before the trip to the KFAB Transmitter site and dinner at the Bellevue Queen. Sandy (NØCLQ) and Dave (NØCLW) tell me that we have a good turnout for the special July activity and that all the food orders are in. Hope you are planning to (or did) attend.

Field Day is long over but the memories linger. There were a lot of Past Presidents out there...one of the best turnouts yet. Frank (KØSST) did an excellent job of running the show and the snacks were outstanding. The operating was a lot of fun also and our thanks to the many who helped out. We may not have won any prizes but everyone in sight had a lot of fun.

Start planning for the October meeting. It will be "Old Timers" night and many of our Past Presidents will be joining us for the evening. There will be prizes for attendees at the meeting for various categories. So be sure to show up...you might win something.

Speaking of winning something. There is a rumor going around that the November meeting will bring forth some new awards this year. In fact the rumor is pretty solid. There will be an Ak-Sar-Ben Amateur of the Year Award as well as an AARC Service Award of the Year. This means there will be two categories of awards. One for the top all-around Ham in the Club for the year and one for the ham who has contributed time and effort in the area of service to the community and the Club during the year.

If you have someone in mind for either or both of these awards, please write us a letter giving us the details about the person and why you feel he or she or it should be considered for the award. Please mail these to me at my home address (4517 No. 61st Street — 68104) or at the Club address.

A committee made up of past Presidents will review all of the nominations and make selections which will be announced at the November meeting.

At the December meeting it will also be the time to elect new officers for 1984 including 4 members of the Board. The nominating committee will be appointed and will meet during September or early October. So, if you have someone in mind for either of the offices or the Board, please feel free to drop me a line or give me a call with your suggestion.

See you at the August meeting. In the meantime, spend some time checking your guy wires — after all, winter is just around the corner again.

de Bill NØANQ

EDITOR'S NOTE:

In reading Spark Gap Times, quoted elsewhere in this issue, I found the requirements for membership in the "Old Old Timers Club" to be both good news and bad news. The good news is---I am too "young" as I have not been a ham for 40 years and the bad news is---I cannot join for 14 more years.

Should you desire more information, drop a note to Ham Hum.

Editor

HAM HUM

**GENERAL MEMBERSHIP MEETING
American Red Cross Building
39th & Dewey, Omaha, Nebraska
June 10, 1983**

Vice-President Dave Hamilton, NØCLW, called the meeting to order at 1935 hours and led those in attendance in the Pledge of Allegiance.

Moved and seconded to accept Jacquet B. Lewis, KAØGFC, as a new member.

Moved and seconded to accept the minutes of the General Membership Meeting of May 13.

Mitch Gagne, NØAZF, handed out Appreciation Certificates for those who worked the Annual Auction sale.

Duke Humphrey, WDØEWH, handed out Appreciation Certificates to those who worked special events.

Dave Hamilton, NØCLW, updated the Club about the July Meeting to be held at the Bellevue Queen and tour at KFAB transmitter site.

Mitch Gagne, NØAZF, reported on the upcoming Field Day event.

Jerry O'Harrow, WBØPPF, reported the OFFUTT AFB open house will be Sunday and that they were looking for radio operators.

Sam Kaplan, WDØBVH, auctioned off a 1981 U.S. Callbook donated by Charles Michel, KØQVL.

Moved and seconded to adjourn meeting at 2010 hours.

An interesting program on antennas was presented by Al McMillan, WØJJK.

**BOARD OF TRUSTEES MEETING
Blue Cross/Blue Shield Building
June 21, 1983**

Present were: Bill Martin, NØANQ; Walt Brown, KAØDMB; Frank Bruner, KØSST; Vern Wirka, WBØGQM; Dick Fehrman, KAØAAB; William (Duke) Humphrey, WDØEWH; Fred Genovesi, KAØKDJ; Marlene Jugel; Ray Fink, WDØGIL.

Guest: Ellen Morrissey, WBØHWF.

Frank, KØSST, reported on the upcoming Field Day event.

Moved and seconded to increase budget for Field Day to \$600.

Ray Fink, WDØGIL, mentioned the possibility of having a tour of SAC Headquarters.

Walt Brown, KAØDMB, inquired about our current insurance policies. All insurance policies will remain with the same carrier.

Discussion was held regarding the Annual Picnic. It was decided not to have a picnic, but instead to have a hayride in the fall.

Meeting adjourned at 2000 hours.

The Des Moines Radio Amateur Association
Invites You To The

HAM & COMPUTER FEST '83
SUNDAY, AUGUST 14, 1983

At Veterans Memorial Auditorium, Des Moines, Iowa

The doors will open at 9:00 AM for this years HAM & COMPUTER FEST. Talk in frequencies will be 146.22/.82 and 440.5 MHz or most any of the local repeaters. Veterans Auditorium is just south of I-235 on 5th Ave. Donations at the door will be \$4.00 or you can send a \$3.00 donation with an SASE to Betty Landers, NØDRV, Van Meter, Iowa 50261 before August 1, 1983.

PAUL GRAUER WØFIR will be at the ARRL booth to answer any questions and talk about no code licensing.

BOB McCAFFREY KØCY will be at the FEST to explain how the new ARRL restructuring effects us in Iowa.

IOWA REPEATER COUNCIL will have a special meeting at 1 PM. \$1000.00 GRAND PRIZE The DMRAA, G&K Amateur Radio and Computerland have agreed to offer a prize of your choice valued at \$1000 suggested retail. Not redeemable in cash.

OTHER PRIZES are being offered by Microwave Filter, TNT Amateur Radio and the Radio Amateur Callbook Inc.

FLEA MARKET Set up begins at 7:00 AM. Electronic gear only. For advance reservations and easier set up send \$6.00 for each table & chair to Bob Tucker, KDØEO, 4401 65th St. Urbandale, IA 50322. All vehicles must be out of the auditorium by 8:00 AM.

CONSIGNMENT TABLE The DMRAA will sell your prepriced items for you. 10% commission.

AUCTION starts at 3:30 PM for all those unsold goodies. 10% to the DMRAA.

HOME BREW CONTEST Bring your homebuilt electronic gear for display and judging. Advanced and beginner catagories. No kits. All items must be in working order with an information sheet outlining costs, purpose, etc. For complete rules send SASE to Larry Kebel, KBØZP, RR #1, Cumming, IA 50061.

YOU'VE SEEN THE REST, NOW COME TO THE BEST.

TALES OF TAPES

- (1) Submarine cable transmitting tape.
Block signals...dots "UP" --- dashes "DOWN"
- (2) Outgoing syphon recorder tape showing block signals.
- (3) Syphon recorder tape of incoming signals from France.
Signals are extremely "rounded" due to the low-pass filter effect of the long cable.
Skilled operators had little difficulty in translating the undulations.
- (4) Radio Telegraph Wheatstone transmitting tape.
Perforations on the top side of the tape create "mark" or key-down conditions. Holes on the bottom release the mark condition.
- (5) Radio Telegraph receiving syphon recorder tape.
Dots and dashes are clearly indicated by the pen moving "UP" for "mark" and "DOWN" for space.
- (6) Facsimile tape employed by Press Wireless, Inc., to bring ideographic news reports for Japanese and Chinese newspapers in the United States.
Strip is in Chinese and reads..." formal diplomatic relations between two countries. The Government of the Republic of China...."
- (7) Hell Schreiber tape. Highly successful on radio telegraph circuits. Synchronization was no problem.
As one line of print began to slide off the tape a second line above or below began to print.
Transmission was by means of a commutator keyboard and received by a spiral scanner drum.
- (8) Old Bunnell morse inker tape.
- (9) Five level Teletype tape.
- (10) Six level Teletypesetter tape to operate linecasting machines from wire line networks.
- (11) New York Stock Exchange Ticker tape. This tape was produced from a Press Wireless shortwave signal over a New York - San Francisco circuit.
At San Francisco, the signals were automatically repeated back to New York for confirmation.

Donald K. deNeuf
WAISPM

(See tapes illustration on opposite page)

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DHXP	CGE	CGE.A	PGS	ABTP	DRP								
72.88	183.19	274.84	552.7	100.2									

from Spark Gap Times

ATTENTION ALL MEMBERS

The Board of Trustees is considering a tour of SAC Headquarters. Tour would start at approximately 1730 hours local time and last for about 2 1/2 hours. There will be three separate briefings. The final briefing would be a tour of the SAC Command Post. If you are interested, please let your feelings be known at the next meeting or to your Board of Trustees. If enough interest is shown, a date will be announced.

de WDØGIL

SAINT PAUL



INC. DEVOTED TO THE FUTURE OF AMATEUR RADIO
AS A HOBBY AND PUBLIC NECESSITY

AFFILIATED WITH THE

AMERICAN RADIO RELAY LEAGUE

KØAGF

BOX 30313, SAINT PAUL, MINNESOTA 55175

July 12, 1983

Dick Eilers, WØYZV, Editor
Ham Hum
P.O. Box 291
Omaha, Nebraska 68101

Dear Dick:

Our club is going to operate a "Railroad Mobile" special events station on September 10th and 11th. We will have 3 stations set up aboard a moving train which will be running between Northfield, Minnesota and Dundas, Minnesota. The train will be pulled by a steam locomotive (a restored Northern Pacific RR engine #328).

As I know so many of your fine "convention-going" (especially the Midwest Division Convention) members, I would especially enjoy working all the members of your club and to issue them a QSL card or special certificate. As we also exchange publications with your organization, we get to know many of your members through the Ham Hum.

I would appreciate a plug in the issue of Ham Hum which will be out just prior to the date of our event. We should be just about the correct distance for good skip conditions on 40 meters. A copy of one of our press releases is enclosed to provide you with additional information.

73,
Marvin A. Mahre

Marvin A. Mahre WØMGI
Chairman, Special Events Station

MAM:s
encl:1

SPECIAL EVENTS

Northfield, Minnesota: St. Paul Radio Club will operate KØAGF from 1400 UTC until 2300 UTC each day September 10th and 11th aboard a steam powered train operating during Jessie James Days. Frequencies: SSB -- 3,948 7,267 14,288 and 21,377. CW -- 3,552 7,107 14,057 and 21,057. A special "Railroad Mobile" certificate and QSL will be issued to those furnishing a 9x12 SASE (37¢ postage) and a QSL to those furnishing a SASE with 20¢ postage. QSL to St. Paul RC, P.O. Box 30313, St. Paul, MN 55175-0313.

NOVICE CORNER

Good Operating Procedures Explained — "Operating Tips"

Universal Coordinated Time (UTC), Zulu Time (Z) and Greenwich Mean Time (GMT) are all synonymous. Using this time-reference instead of local time for communications will help you avoid much confusion, since all Amateurs world-wide do the same. Learn how to use it and log properly for QSLing. Remember that at 0001Z you also change the **date** in your log or on your QSL even though it may be only 6:00 pm local time. If you work DX--don't ever fill out your QSL with local time!

When sending CQ, it is best to make your call as brief as possible. If the band is fairly active, a 2 by 2 call will work well (CQ CQ de KØAGF KØAGF K). Otherwise, you can try a 3 by 3 call (CQ CQ CQ de KØAGF KØAGF KØAGF K). To send out long endless strings of CQ's is the mark of a poor operator, causing most listening operators to switch frequencies rather than wait to reward such nonsense with an answering call.

If you hear a station, DX or otherwise, that you intend to call, do not tune up on that frequency. Move to a clear frequency nearby, then after your rig is tuned up, move back on frequency. Better yet, add a dummy load to your station set-up and use this equipment for all tune-up purposes.

CQ DX indicates that the calling station wants only foreign stations (distant) to answer the CQ. It is bad manners for a U.S. ham to answer a CQ DX being sent by another U.S. ham.

K means, "Anyone hearing this call, go ahead and answer me." KN means, "Only the station I have identified answer back." It doesn't make sense to send a KN after a CQ; so finish the call with a K.

R (roger) does not mean "Yes." R means "All received correctly." If you want to respond "yes" to a question, spell out "yes" or send the letter "C" (correct). If you are having a QSO and were unable to copy all of the transmission, do not start off your response by sending "R" and later tell the other station that you did not get all of the information. Instead, start by sending BT (start of message), then ask the other operator to repeat the part of the message you missed.

In exchanging primary basic information, always send it in this order to help avoid confusion: 1) Signal Report (RST). 2) Location (QTH). 3) Your first name.

Hardly any experienced operator will use a period after each sentence (dit-dah-dit-dah-dit dah). "BT" is used instead.

If the other op asks you a question and then turns it over to you by sending BK, answer by sending BK yourself along with the answer to the question and finish by sending BK which turns it back to him. There is no need to use either call-sign in a situation like this which will waste time and is not necessary.

If you are having problems copying the other station because the CW is too fast for you, ask the other operator to please "QRS" (send slower). Don't try to kid him by sending QRM (meaning you could not copy because of interference). Notice that good operators match their sending speed with the speed of the other station.

de Marconi's Apprentice
de Ground Wave—Minn. via WØWRT

HAM HUM

Larsen Kūlrod Antennas

offer amateurs all the advantages enjoyed by the commercial two-way radio field.

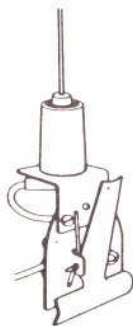
The Larsen Kūlrod® Antenna was initially designed to be a superior antenna for the highly competitive commercial 2-way radio market. Today, Larsen antennas are in the forefront for both the commercial and amateur fields because they combine top performance with long range dependability.



Magnetic Mount

Super-Efficient Air Wound Coils.

Larsen's loading coils are air wound for the most efficient transfer of communication energy. No power absorbing coil form is used. The base loading coil, when used, is made of extra heavy wire to stay in position and will not detune with years of use. Cutting the antenna rod, by following the instructions and cutting chart accompanying the antenna, assures lowest V.S.W.R.



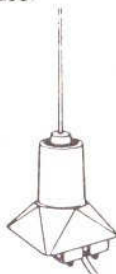
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(402) 346-2126

Omaha Communications Systems
8833 "J" Street
Omaha, NE
(402) 331-8853

The Kūlrod® Difference.

The Larsen Kūlrod® whip is made of 17-7 PH precision tapered stainless steel for durable flexibility, while minimizing radiation pattern distortion at higher vehicle speeds. It is quadruple-plated with a combination of nickel, copper and chrome for maximum power radiation efficiency. Two set screws keep Larsen antennas double-locked firmly in the base.



Trunk Lid Mount

Streamlined Appearance.

Larsen Kūlrod® Antennas are designed for eye appeal with a neat, low profile base that blends with today's vehicles. An occasional wipe with a soapy cloth will keep the entire antenna looking new and shiny. The special platings on mount hardware add to the appearance and keep corrosion build-up to a minimum.

Kūlrod® is a registered trademark of Larsen Electronics, Inc.

Bellevue Electronic Equip. Service
2317 Lincoln Road
Bellevue, NE 68005
(402) 292-9292

Mobile Communications, Inc.
1713 Webster
Omaha, NE
(402) 341-1529

Sioux Falls AMATEUR RADIO CLUB, INC.

WØZWY



P. O. BOX 91

SIOUX FALLS, SOUTH DAKOTA 57101

ARRL DAKOTA DIVISION CONVENTION SEPTEMBER 23-24-25, 1983 SIOUX FALLS, SOUTH DAKOTA

The ARRL Dakota Division Convention will be held September 23-25 at the Howard Johnson Motor Lodge in Sioux Falls, SD. Registration and entertainment begin Friday evening. On Saturday there will be Forums, Exhibits, Flea Market, Code and Voice Recognition Contests, 3900 Club Luncheon, and Ladies Activities. ARRL President Vic Clark will lead the ARRL Forum. The Saturday night banquet promises to be a fun-filled evening for the ham and nonham alike. Guest speaker will be KELO-TV agri-business commentator Jim Woster. The convention will end Sunday morning with a worship service and 2 meter transmitter hunt.

Convention pre-registration prior to September 1 is \$5; \$6 at the door. Convention and banquet pre-registration is \$15; \$16 at the door. Banquet only is \$10. Reduced motel convention rates are available. Talk-in on 16/76 and 52/52. For additional information, write to Sioux Falls ARC, P.O. Box 91, Sioux Falls, SD 57101.

Please let us know if you would like additional copies of the flyer. Tickets will be held at the convention for those that pre-register.

73

Dave WØNRW

RB Associates

R. H. BRENNEMAN

COMMUNICATIONS CONSULTANTS
ENGINEERING SERVICES
(712) 323-1390

W Ø U Q J

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President
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\$2.50 per month.

REAL ESTATE AND THE AMATEUR

As a Ham and a Real Estate Broker, I have made some observations on some considerations that should be taken into account when purchasing property. We can't all afford that ideal QTH with a 2-acre antenna farm and sitting up on a hill, but there are locations in all price ranges that would make a good Ham QTH.

Elevation above average terrain is an obvious factor, especially for VHF and UHF work. For HF, being somewhat above the immediate surroundings and in the clear, would be the most important thing. Before purchasing, find out if there are any antenna height restrictions imposed by the city, county, or in the case of many new housing developments, in the form of protective covenants. These covenants would be on file at the court house.

Some of the new developments allow no outside antennas—it might be hard to get a TH-6 in the attic. Being near an airport poses some additional restrictions in antenna height—especially in the flight path.

Look for probable generators of interference, such as power lines, commercial properties or a neighbor with an arc-welder, etc. Are the power lines underground? The noise is usually lower in these areas, however, prices may be higher. How close together are the houses—the closer your neighbor is, the greater chance for you to bother each other. Again, price may dictate a compromise in this area.

Generally, a QTH in close proximity to a broadcast station is not



a good idea, especially an AM station. All it might take is one bad connection in the antenna system and you could have Loretta Lynn singing all over the 40 meter band.

Trees may be a help in supporting wire antennas, but too many can make it difficult to get antennas in the clear. Would you want to remove some trees? A wire antenna should never have to cross a power line. Along this same line, if you are going to put up a tower, it should be in such a place that it won't blow down across a power line.

The house should have at least 220 volt 100 amp service. This is code in most areas. If not, you may want to take the cost of installation into consideration.

Where are you going to put the shack? Does the XYL (or OM) have other plans for the same room? It might pay to discuss this. If the shack is to be in the basement, is it dry? How will the feedlines be routed outside? Also, how close is the nearest Ham? If he is close and active, you may blow each other off the air, or may have to restrict your operation to separate bands sometimes.

I am sure there are other considerations, and of course, the regular ones you would have in purchasing a house as a non-Ham. If you
(Continued on Page 15)

HAM HUM SWAP

NO CHARGE FOR HAM RADIO ADS (NON-COMMERCIAL) SUBJECT TO SPACE LIMITATION. MUST BE SUBMITTED IN WRITING TO P.O. BOX 291. SEE COPY DEADLINE PAGE 2.

- FOR SALE: One Ak-Sar-Ben Radio Club jacket, size — small.
Charles Michel, KØQVL, 391-3782.
- FOR SALE: 4 CH MIC Mixer, \$2.00. 20w PA Amp (tubes), \$4.00. 20A p/s, requires slight reconfiguration, \$25.00.
Sprite fan, \$3.00. Ten foot tripod aut mt, \$10.00.
Rich, WAØZQG, 322-7775.
- FOR SALE: SSTV — Robot-Monitor, Camera and Viewfinder. \$450.00 or best offer.
Drake — TR3 Transceiver with DC and AC power supplies. \$200.00 or best offer.
WØEGP — Fred Fischer — 391-4193.
- FOR SALE: Fully operational teletypes — Model 28ASR with extra print head and all manuals, and a Model 28 Typing Reperf.
Bill Martin, NØANQ, 451-4988.

(Continued from Page 14)

find a good QTH, your next job is to sell the XYL or OM on the place. Hint: with a super Ham QTH, you will be staying home more.

Ray Dennis, WØDQ
via W6SD Carrier, Calif.
de Ra Ra Rag, Rochester, NY



**Red Cross.
The Good
Neighbor.**