



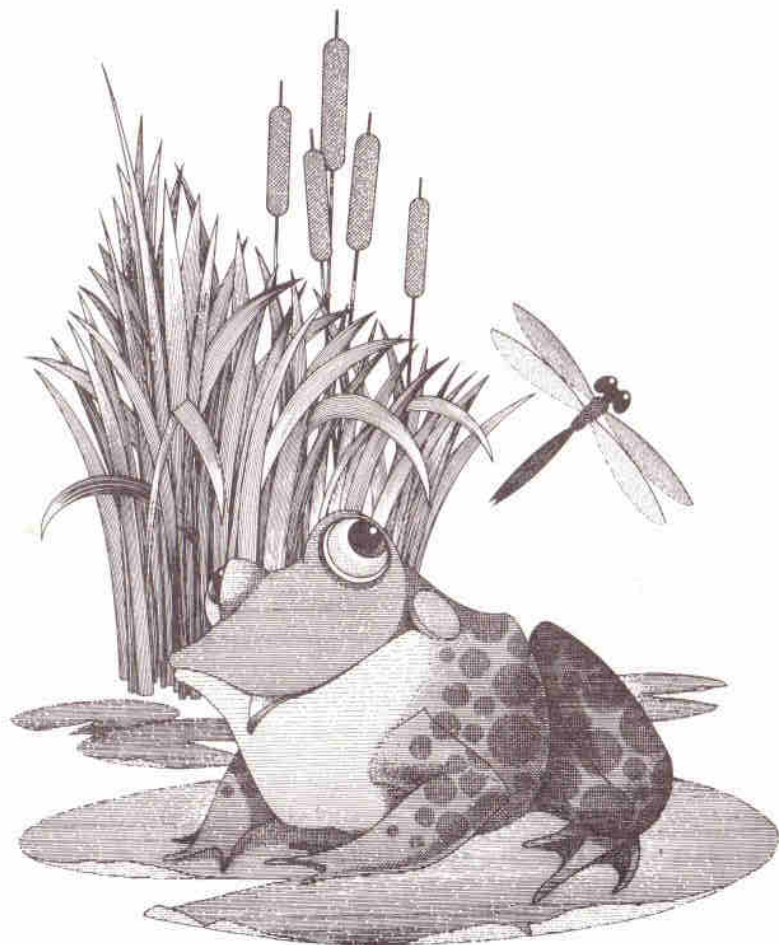
# HAM HUM

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



Vol. XXXI  
No. 4

April 1981



**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.

Full permission is granted for reprinting articles appearing in this official organ provided a credit line is given to HAM HUM and in reprinting, to the author and publication from which the article was taken.



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

Post Office Box 291  
Omaha, Nebraska 68101

President James B. Wilson, WBØJPN

Phone: 455-4259

Editor ..... Dick Eilers, WØYZ

Res.: 397-3995

Phones: Bus.: 342-1402

X-200

Assistant Editor ..... John Snyder,

WØWRT

Res.: 556-1538

Phones: Bus.: 397-3000

X-3542

**Copy deadline for May is April 17th**

**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

**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

---

## NEXT MEETING

WHEN: FRIDAY, APRIL 10, 1981

TIME: 7:30 P.M.

WHERE: DOUGLAS/SARPY COUNTY CHAPTER  
AMERICAN RED CROSS  
38TH AND DEWEY AVENUE  
OMAHA, NE 68105

PROGRAM: A PICTORIAL HISTORY OF GROUND AND AIR  
COMMUNICATIONS IN EARLY OMAHA PRESENTED  
BY LOU CUTLER, WØVLI.

\*\*\*\*\*

## PREZ SEZ IN MARCH

A great big Thanks to Dick KØDG, Dick WØYZV and Dave WDØDLN (the unseen but much understood one) for their demonstration of how to handle traffic with their Bits, Bytes and Baud. It seems like a super way to handle a lot of messages very fast.

If you are like I am, you can't wait for the next chapter of "In Retrospect"; we enjoyed it very much at this QTH. Lou WØVLI, really did a good job. Tnx, and we look forward to many more.

Further back is a list of services that your Club can do for you, plus a list of the Club's Committees. You can see the Club offers many services and I am sure I've forgotten some. But you can get the picture. It takes a lot of people to make it work and we need a lot more, so don't be afraid to join in and offer your services.

Also on the Silent Key Plaque, we will need a Committee to oversee this Big but worthy project, Lloyd KØDKM, is the committee Chairman and could use some help.

Don't forget to bring a tool or two to help equip the Antenna Trailer. Jim WBØQGV, has gotten us off to a good start with a socket set. Tnx, Jim.

Tnx for your attention and cooperation and hope to see you at the next meeting. Remember: Get INVOLVED!

de Jim, WBØJPN

THE PERSON WHO ROWS THE  
BOAT SELDOM HAS TIME TO  
ROCK IT.

.....

## PREZ SEZ IN APRIL

Sorry about the absence of a column in last month's Ham Hum but Murphy's law took over and it seems like the longest distance across town is through the U.S. Postal service, but enough said about that. Anyway, this month you will get a double dose.

Our thanks to Jim, Gary and Benny for their fine program on Tornado spotting and weather. I'm sure we all learned a little more about spotting and understand more about our alerts and weather nets. Again, thank you gentlemen. We appreciate your time spent with us.

March was a very active month with the floodwatch program at the Red Cross attended by myself, Walt KAØDMB and Ellen WBØHWF. The Disaster program attended by Walt and Ellen. Walt gave a full report to them of ARES services available for their use. There was also the dedication of the Red Cross Communications Van to Bob Lockwood WAØDHU. We finally got to see the super job that Jim NØAIH and Mitch NØAZF did on the construction and installation of the rigs; it is truly top notch, Tnx! You make us proud to be a part of Ak-Sar-Ben Amateur Radio Club, and made us aware again of the untiring job ARES does.

By the time you read this, I will have been to the Midway Ham Convention and checked Mike's NØAON's Hospitality Room. Hope to meet a few old friends and some new ones. Will finish this report next month (if I can

remember all that happens). Anyway, March was a very active month. Here it is April and the Auction is just around the corner. We still need help, so get involved! So until next time.

73's  
De Jim, WBØJPN

**THE MAN WHO MAKES NO MISTAKES DOES NOT USUALLY MAKE ANYTHING.**

*Bishop William Connor McGee*  
\*\*\*\*\*

### **SILENT KEY**

Raymond J. Strange, S.J., WØQHG

Reverend Strange was a member of our Club almost since its beginning. He was President of the Club in 1953. It is still not too late to send a memorial to the Science Scholarship Fund at Creighton Prep where he served as teacher and in many other capacities for more than 40 years.  
\*\*\*\*\*

### **CHANGE OF CALL**

Donald R. Kavalec, NØCCT  
Kenneth W. Walker, KDØP  
\*\*\*\*\*

### **NEW MEMBER ADDITIONS TO ROSTER**

Christy S. Boone, KAØKHF  
XYL of Steve D. Boone  
KAØFWU  
3310 Belvedere Blvd.  
Omaha, NE 68111

June E. Gagne, XYL of  
Mitch Gagne, NØAZF  
4026 Nebraska Ave.  
Omaha, NE 68111  
\*\*\*\*\*

## **RECENT CONTRIBUTORS**

### 34/94 REPEATER

Frank D. Fernald, WØBTE  
Janice G. Nelson, KAØBJX  
Jerome D. Wasserman, WBØCKR  
Joseph A. McCool, WBØNFF  
Connie Bowen, WAØMYF  
Norval E. Bowen, WAØNPF  
Erich J. Bahr, WØHRK  
Cecil D. DeWitt, WØRMB  
Wayne L. Goetz, WBØHEU  
Robert L. Smith, KDØF  
Mac McLaughlin, WAØBMJ  
Lawrence F. Cacommo, WØNMN  
Chuck Hoffman, WBØNVL

### 40/00 REPEATER

Janice G. Nelson, KAØBJX  
Jerome D. Wasserman, WBØCKR  
David D. Arp, KØQCV  
Connie Bowen, WAØMYF  
Norval E. Bowen, WAØNPF  
Wayne L. Goetz, WBØHEU  
Raymond E. Simmons, WBØYFX  
Robert L. Smith, KDØF  
Robert W. Arant, WØGOT  
Chuck Hoffman, WBØNVL

### 22/82 REPEATER

Janice G. Nelson, KAØBJX  
Robert W. Arant, WØGOT  
Chuck Hoffman, WBØNVL

### HAM HUM

Mac McLaughlin, WAØBMJ  
\*\*\*\*\*

### **ADD CALL LETTERS**

Grover Payne, KAØKFJ  
\*\*\*\*\*

### **CHANGE IN PHONE NUMBER**

John Gebuhr, WBØCMC  
Phone: 553-5296  
\*\*\*\*\*

## MINUTES OF THE GENERAL MEMBERSHIP MEETING HELD MARCH 13, 1981, AT THE RED CROSS BUILDING AT 38th & DEWEY AVENUE, OMAHA, NEBRASKA

The meeting was called to order at 19:30 hours by President Jim Wilson, WBØJPN. We began with the Pledge of Allegiance.

New members—June E. Gagne, XYL of Mitch Gagne, NØAZF, and Christy S. Boone, KAØKHF, XYL of Steve D. Boone, KAØFWU. Motion by Walter Brown, KAØDMB and second by Robert Smith, KDØF that the new members be admitted to the Club. Approval was unanimous.

Many new cards and certificates were handed out to those present.

Treasurer Dick Fehrman, KAØAAB read the Treasurer's Report.

Bob Lockwood, WAØDHU gave a report on the classes which will be winding down in April. The results are very encouraging and several will be receiving their Novice or an upgraded license.

Charlie Rodgers, WØQQN, reports the Zero QSL Bureau is running on all fours and is overflowing with work at this time.

The generator will not be sold at the auction.

Thomas Thiessen, KØPQR read several articles from the H. R. Report.

Kay Wilson gave a report on the new group of the wives of hams that is being formed. The first meeting is to be March 18, at the Red Cross Building.

The Club decals are here and cost \$1.00.

Mike Bruening, NØAON talked about the Midway Ham Convention at Kearney on March 28 and 29th. The Ak-Sar-Ben and Lincoln Amateur Radio Clubs are going to have a joint Hospitality Suite. The reservations are going fast, so call Mike, NØAON about a reservation.

Motion and second that the business meeting be closed.

### Program for the evening

James Zoller, Meteorologist-in-Charge at the National Weather Service, had pictures and slides that showed numerous types of clouds and tornado formations. Mr. Gary Wiese and Mr. Benny Gullach assisted with the slides. The presentation answered many questions that we had, so now we will be more ready to face what may be upon us this Spring.

Coffee and doughnuts were served.

Program concluded at 22:15 hours.

Club Secretary,  
Ellen, WBØHWF

\*\*\*\*\*

 **Need help? Call us. Want to help?  
Call us.**  
**Red Cross is counting on you.**

A Public Service of This Magazine  
& The Advertising Council



## FROM THE KITCHEN — Anonymous

(Maybe the anonymous contributor of these two recipes will reveal their identity after you meet with success with the recipe and want to send a compliment his/her way.)

### Fudge Nut Bars

12 oz. pkg. real chocolate chips  
15 oz. can sweetened condensed milk  
3 Tbsp. margarine  
3/4 cup chopped nuts  
2 tsp. vanilla  
1 cup margarine  
2 cups brown sugar  
2 eggs plus 1 tsp. vanilla  
2 1/2 cups flour, 1 tsp. soda, 1 tsp. salt  
3/4 cups quick oatmeal

Melt the 3 T. margarine, chips and condensed milk over hot water, stirring till all are melted. Add nuts and 2 tsp. vanilla. Set aside.

Cream remaining margarine and sugar. Add eggs and 1 tsp. vanilla. Beat well. Add sifted dry ingredients and stir in oatmeal. Spread 2/3 of this last mix into a 10 x 16 pan. Spread fudge mix over this and sprinkle remaining dough on top of the fudge mix.

Bake at 350 degrees for 20 to 30 minutes.  
Do not overbake.

\* \* \* \* \*

### Three-Layer Bars

Mix in the top of a double boiler and boil for 5 minutes:

1/2 cup butter  
1/3 cup sugar  
1 tsp. vanilla  
1/4 cup cocoa  
1 egg, slightly beaten

Then add: 2 cups finely crushed graham cracker crumbs  
1 cup coconut (optional)  
1/2 cup nuts

Press into a 9 x 9 buttered pan and let cool.

(Continued top of next page)

Cream together: 1/2 cup butter  
3 Tblsp. milk  
2 tsp. Vanilla Instant Pudding  
2 cups powdered sugar

Spread over the first layer and let set.

Melt over hot water: 3/4 cup chocolate chips ( (keep warm  
1 Tblsp. butter ( (keep warm  
A little cream ( (keep warm

Spread over the second layer and cut the bars before this layer sets. Refrigerate. Store in refrigerator

\*\*\*\*\*

## CHANGE OF ADDRESS

Robert R. Chereck, Sr., WBØTVP  
Leona T. Chereck, (XYL)  
3806 Emiline  
Omaha, NE 68147

Clark M. Elliott, WBØESN  
P.O. Box #508  
Colorado City, CO 81019  
Phone: (303) 676-3891

Dr. Edward H. Holyoke, WAØVSR  
1513 S. 97  
Omaha, NE 68124  
Phone: 391-3260

Peter A. Kugel, WBØTMV  
2906 S. 122  
Omaha, NE 68144  
Phone: 333-6350

Arthur R. Mahon, WBØMUL  
#7 Kimberlane Drive  
Clear Lake, IA 50428  
Phone: (515) 357-6035

Stephen C. Matthews, WBØBVS  
7353 Grant #8  
Omaha, NE 68134  
Phone: 633-5155

Olin C. Stanfield, KØJKW  
700 S. Harrison  
Papillion, NE 68046  
(No phone)

\*\*\*\*\*

## WOMEN'S AUXILIARY CHATTER

The initial meeting of the Ak-Sar-Ben Amateur Radio Club Women's Auxiliary met Wednesday, March 18, 1981. The meeting was hosted by Loretta Kydney WBØMNL, with 15 women present. We introduced ourselves and gave our hobbies. We discussed our purpose as an organization, goals and types of programs we would like. We decided not to elect officers for a few meetings and found we had a number of members who could give us a variety of programs, themselves.

Our next meeting will be the fourth Wednesday in April at the Red Cross Building. If we should not be able to get it, ladies will be notified. Our program next month will be given by Leota Brown on her hobby of quilting. The first activity will be helping serve the lunch at the Club Auction May 3, 1981.

The general feeling about our first meeting — IT WAS AN AMAZING SUCCESS!! It can be an even bigger success if more ladies will join us next month.

Kay Wilson

\*\*\*\*\*

## HERE ARE JUST A FEW OF THE WAYS YOUR CLUB CAN HELP YOU

Jackets & Caps	Walt KAØDMB
Name Tags	Edie WDØGHA
RFI	Frank WAØIWF
	Tom KØPQR
	Dave WDØDLN
Technical Help	John WBØCMC (not before 10 AM)
Tower Climbers	Mitch NØAZF
	Scott WBØWOT
	Jim NØAIH
ARES	Jerry WBØPPF
Contests	Mike NØAON
QSL	Charlie WØQQN
Programs	Dick KØDG
Courtesy	Charlie KØQVL
Novice Help	Charlie WØQQN
	Chuck KAØEBD
Manpower	Jim WBØQGV
	Chuck WBØNVL
Advertisement	Tom KØPQR
Coffee Lady (at the meetings)	Aileen XYL of KAØDKO

\*\*\*\*\*

## COMMITTEES

Education	Bob WAØDHU
	Ellen WBØHWF
	Lloyd KØDKM
Instructors	Bob WAØDHU
	Chuck KAØEBD
	Charlie WØQQN
	Jim NØAIH
Subs	Frank WAØIWF
	Dave WDØDLN
	Jim WBØQGV
Auction	Jim NØAIH
Field Day	Frank WAØIWF
	Dave WDØDLN
Equipment	Scott WBØWOT
	Jim NØAIH
Finance	Dick KAØAAB
	Walt KAØDMB
	Lysle KAØDKO
	Paul WDØHRK
Silent Key Plaque	Lloyd KØDKM

(Continued top of next page)



(COMMITTEES - continued)

Repeater	John WBØCMC Ed WDØHBY Scott WBØWOY Wayne WBØHEW John WØWRT
Roster (notify of any changes)	Ellen WBØHWF Jon WBØQGT

\*\*\*\*\*

The body of every organization is structured from four kinds of bones. There are the wishbones, who spend all their time wishing someone would do the work. Then there are the jawbones, who do all the talking, but little else. The knucklebones knock everything anybody else tries to do. Fortunately, in every organization there are also the backbones, who get under the load and do most of the work.

—Leo Aikman

\*\*\*\*\*

## NOTES FROM THE BOARD OF TRUSTEES MEETING HELD ON MARCH 7, 1981

The meeting was held at the home of President Jim Wilson, WBØJPN, at 19:30 hours.

Members present were — Walt Brown, KAØDMB; Charlie Rodgers, WØQQN; Ellen Morrissey, WBØHWF; Chuck Hoffman, WBØNVL; Mike Bruening, NØAON; and Tom Thiessen, KØPQR.

Guests were—Lou Cutler, WØVLI; Lloyd McElhaney, KØDKM; Loretta Kydney, WBØMNL; John Gebuhr, WBØCMC.

Dick Fehrman, KAØAAB, was unable to attend the meeting so he arranged that we had a Treasurer's report, which was read and approved.

Lou Cutler, WØVLI, has resketched the Silent Key Plaque to be much larger. He will bring it to a general meeting.

Walt Brown, KAØDMB, is the head of a committee to get a group of XYL'S together. Loretta Kydney, WBØMNL, is helping by calling several. The first meeting will be at the Red Cross Building on March 18, at 7:30 P.M.

Our Club plans to participate in the Hospitality Suite at the Ham Convention, March 28 & 29, 1981 in Kearney, Nebr.

A new 1981 roster will be printed the last part of March or first of April.

John Gebuhr, WBØCMC gave a report on the repeater and repeater site. Motion and second to adjourn at 21:30 hours.

Club Secretary,  
Ellen, WBØHWF

\*\*\*\*\*

## SSTV

By Jay C. McAleer

I've been in amateur radio for a few years and have enjoyed many aspects of it: CW, phone-patching, traffic handling, rag-chewing and now slow scan television.

I started slow scan in 1975 when the P7 phosphorus tube was used for the picture tube. It works fine and is a reasonable way to start. I now use a video monitor or regular TV set. With the new digital slow scan converters and cameras, it opens a whole new world to us in amateur radio.

I'm not much of a technician and not too good with cameras, so if I can do it, so can you. How would you like to send your picture to New Zealand and receive it back three times closed circuit?

There are many challenges in slow scan, such as programming, WAS, DXCC, contests, art, photography and now color. With ten meters open you don't need a linear, a beam or any of that fancy stuff. You can work closed circuit pictures on a wet noodle.

There is a slow scan net on Saturday at 1800 UTC on 14.230 and 1900 on 28.680. There are several books on slow scan and a video magazine called "A5." Tab also puts out a slow scan handbook and I believe it is available through the ham radio book store or Long Electronics. A5 Magazine is put out bi-monthly and their address is:

A5 Magazine  
P.O. Box 1347  
Bloomington, IN 47402

I'm interested in hearing from anybody in regard to amateur TV, slow scan or fast scan.

I would like to see a fast scan repeater in Omaha Metropolitan Area. I think it would be a new world of fun for our area.

Jay McAleer, WAØLLQ  
839 South Polk St.  
Papillion, NE 68046  
Phone: 339-3448

\*\*\*\*\*

GOOD HOUSEKEEPING  
PROMOTES  
SAFETY



**DEBRIS ON THE FLOOR!  
WILL GET YOU IN THE END!**

---

### MIDLANDS ARES General Membership Meeting

APRIL 11, 1981

12:00 NOON

Douglas/Sarpy County Chapter  
American Red Cross  
38th and Dewey Avenue  
Omaha, Nebraska

New Training Guides will be distributed  
at this meeting

de Jim, NØAIH

## QSL CORNER

By Charlie, W0QQN

The Zero QSL Bureau does not handle state to state domestic QSL cards, only incoming DX cards. However, there is a QSL service available for state to state, including Canada. This service is the USQS QSL SERVICE, PO BOX 814, MULINO, OR 97042. They ask that you presort your cards by call areas (0-9) and enclose 25¢ for each 20 cards or portion thereof. Only the call sign of the receiving station is required, no postage, address or zip code is necessary.

To claim your cards, you need only to send in SASEs (legal size

is best). No charge for SASE handling. They also provide SASEs at the rate of 5 for \$1.00, and any specified number of cards per envelope before mailing, otherwise envelopes are held for 1 ounce. By press time it is very possible that postal rates will have increased and most likely the above price will have to be adjusted. An SASE will bring you current information on this needed service from Laryl Myers, N7BMY. HATS OFF TO LARYL.

73's Charlie, W0QQN  
Mgr Zero QSL Bureau

\*\*\*\*\*

# OMAHA AMATEUR CENTER INC.

3233 Leavenworth St. Omaha, Nebr. 68105 (402)346-5530

Ray Kydney, WA0WOT

Loretta Kydney, WB0MNL

SERVING YOU WITH

ICOM

DRAKE

TEN-TEC

HUSTLER

HY-GAIN

DENTRON

LARSEN

W2AU

KLM

ARRL

AMECO

HAM-KEY

PALOMAR

AMPHENOL

WORKMAN

MIRAGE

NYE-VIKING

B & W

VAN GORDON

UNIVERSAL TOWERS

CONSOLIDATED TOWERS

OPEN 10:00AM - 3:00PM Tuesday thru Saturday

Closed Sun. & Mon.

## "IN RETROSPECT"

Shortly after WW II was finally over and an Armistice agreement was signed by the Allies and their Adversaries, a surplus of aircraft and radio equipment became available to the public at very nominal prices. A quantity buyer for the radio surplus was the World Radio Lab. of Council Bluffs, Iowa. They were located at 744 West Broadway when I first visited their store.

One of the best places to meet and visit with your fellow Hams was on Saturday at the World Radio Store where most of the Omaha as well as the Council Bluffs Hams would gather. I enjoyed looking at the surplus gear and trying to figure out how to use some in my shack or in my mobile. The hams certainly purchased a lot of this equipment and put it to good use. One of the pleasant events of the visit to the Radio Store was the coffee pot that was always handy, due to the generosity of Leo Meyerson, owner and a well-known Ham from coast to coast and around the world. It was also a good place to have the "eyeball" QSO with your ham buddy and get to discuss radio problems.

Starting with my 1948 Plymouth, I began to drill holes into the dash panel and the left rear fender for the whip antenna and loading coil until there wasn't any room left for the XYL to stretch her legs. My home gear was the first Globe Trotter made by the World Radio Lab. Then I advanced to the Globe Scout which was better in looks and performance. It seems that

I spent more money with Leo than the time I spent visiting at his store. My first piece of VHF gear was the Harvey-Wells 2-meter transceiver. It was very good for the CAP frequencies that I installed in my mobile for search and rescue mission. Then the Gonset radio equipment became available on the market; I had to have one for the mobile on six meters. Converters served me well on the other bands for the eighty meter frequencies. My 1952 Chrysler was jammed with radio gear — it resembled the cockpit of a B-29 Bomber. My radio HOBBY was getting expensive, but I was enjoying every bit of it.

A memorable night in the use of the Mobile was the night that the Airmail Service was to reenact the flight from North Platte, NE to Omaha. This historic event called for several mobile units between North Platte and Omaha Municipal Field. My mobile acted as the anchor unit stationed at the Field and to keep in radio contact during the entire trip of this Mail Plane with its load of important mail. Messages were received and put on the bulletin board by Dick Eilers, who was in the main administration building. The flight from North Platte to Omaha was monitored from Hams in Fremont and the line of travel lit by bonfires the entire length. This was another time when the Ak-Sar-Ben Radio Club fulfilled an important link communication. I also enjoyed my HOBBY to its fullest.

73 for now  
Lou Cutler, WØVLI  
\*\*\*\*\*

*Mahre & Sons Print Shop*

**Offset - Letterpress**

2095 Prosperity Ave.  
Maplewood, Minnesota 55109

*Marvin A. Mahre* 777-6463

WØMGI QSL cards  
Send for free catalog

*RB Associates*

R. H. BRENNEMAN

W Ø U Q J

COMMUNICATIONS CONSULTANTS  
ENGINEERING SERVICES  
(712) 323-1390

983 OAK PARK ROAD  
COUNCIL BLUFFS, IOWA 51501

Your card could be in this spot for  
\$2.50 per month.

## BRAINSTORM

Imagine putting a repeater—a TV — transponder — ASCII or other at 60 K feet altitude. Imagine the use these various modes would enjoy with multi-state coverage. I call this idea Super Eagle I. SEI is a drone of winged or dirigible form covered with photo voltaic cells. During the day, SEI will receive solar energy to build altitude and charge batteries. At night, the unit could glide, saving the batteries for navigation control and repeaters. The SEI would require a homing device to stay high over Omaha or wherever. This homing device could respond to either an amateur

beacon signal or broadcast carrier.

This project has something for everyone. For the designer, a challenge, for the model builder, the development of a bird. For the computer minded, development of a microprocessor based control, logic unit. For the repeater buff, building a small, efficient unit.

I extend this idea not as a hard and fast proposal, but only to stir your imagination. Imagination is probably the most powerful force molding the future of our hobby.

De NØAZA, Bob Carl

\*\*\*\*\*

### ***Remember!***

## **AK-SAR-BEN Amateur Radio Club AUCTION**

**American Legion Post 374  
4760 South 135th, Millard, NE**

**May 3rd**

## HAM HUM SWAP

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

FOR SALE: Heathkit HD-15 Phone Patch, Johnson Viking Phone  
Patch. Both excellent condition with manuals.

TEN-TEC Antenna Tuner, mint condition.

Bernie Chap, WBØEYT

2811 Bonnie Street, Omaha, NE 731-0128

FOR SALE: Old ham radio gear from estate of WØVOX.  
Stromberg-Carlson, BC-348-P Receiver  
Dumont Oscilloscope, type 274, 115V-50-60cy - 50 watts  
Meissner Signal Shifter, model EX  
Transformer — 115V primary, 5000V C.T.  
Homemade Power Supplies and Amplifiers  
Many misc. items.

Contact: Ron Gumm

4535 29th St., Columbus, NE 68601

Phone: 402/563-5360 (work)

402/564-8110 (home)

WANTED: Collins 32S-3, 516F-2.

Bernie Chap, WBØEYT

2811 Bonnie Street, Omaha, NE 731-0128

\*\*\*\*\*



# HI SPIRE TOWERS

The Best Ham Tower  
For 15 Years

TOWERS WITH RIGID CONCRETE BASE

\* Self-Supporting With A Tri-Bander (A)  
\* 32' - 40' - 48' - 56'

\* Heavily Galvanized

32 Ft. (Nom. 140 lb.) \$199.00

(A) Limited to JR TriBander, 40 Ft. (Nom. 180 lb.) \$249.00  
unless guyed, on 56' towers.

48 Ft. (Nom. 250 lb.) \$349.00

56 Ft. (Nom. 315 lb.) \$449.00

## SPIRE CONSTRUCTION

\$ 199  
32 FOOT  
TOWER

Heavy steel "beaded" channel design for exceptional strength - much stronger than tubular of same weight. "X" bracing & bridge type construction for exceptional torsional stability. Positive riveted construction & heavy galvanizing makes it exceptionally durable for minimum maintenance. Tapering design provides "nesting" shipment at lower cost to you, as well as lighter sections as you go higher, making it easier to erect.

**BASES:** Rigid concrete (recommended base is 3x3x3' in firm soil, 32/40' models, and 4' deep on 48/56' models).



"HI-SPIRE" towers shipped truck collect from Indiana.

When you need "ham" gear & accessories.....call H.I.!

"THE BEST  
TOWER  
VALUE!"



A custom drilled rotor plate is provided that accepts all CDE rotors (AR22R, TR44, HAM-M) and also the HY-GAIN 400 with slight enlargement of bolt holes. A friction thrust (lateral) bearing is included.

CALL: Tues./Sat.-Noon/5PM

A1 McMillan W0JJK  
(712) 323-0142

WRITE:

Box 864  
Council Bluffs, Iowa - 51501