



HAM HUM

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

NEXT MEETING

WHEN: FRIDAY, FEBRUARY 12, 1982

TIME: 7:30 P.M.

WHERE: HEARTLAND CHAPTER
AMERICAN RED CROSS
38TH AND DEWEY
OMAHA, NE 68105

PROGRAM: AN AUDIO VISUAL TOUR THROUGH THE
DAYTON HAMVENTION.

THE PREZ SAYS

All who braved the c-o-l-d-d for the January meeting were treated to some nostalgia from the past as Lou WØVLI presented a pictorial on "Yesterday's Airplanes" and a film on "Dead Reckoning." TNX, Lou, for providing the program. Another good job!

February is a month for catching your breath after the Holiday Season of December and January, however, it is just the beginning of the planning season for the events to take place. Already we have announcements from our northern neighbors, regarding the HAMBOREE NO. 6 at South Sioux City, Nebraska. It will be held at the Marina Inn, on March 19th and 20th, and will feature Symposiums, Flea Market, Exhibits, Ladies Activities, Door Prizes and, to cap it off, a Banquet on the closing

night. Why don't you plan on attending by the carload? Don't forget the Nebraska State Convention at Kearney on March 27th and 28th! (More on this next month.) Our plans are full speed ahead for our "Once a Year" fund raising project better known as the Ak-Sar-Ben Amateur Radio Club, Inc., AUCTION. Be sure you are one of those who signs up to help make this a success FOR YOUR CLUB! Jim NØAIH and Chuck KCØDB are both looking for some Club personnel to help on the floor or in the kitchen. Why not plan to give them some of your time. (Sign-up sheets will be available at the next meeting, or just call and let them know you are available, and for how long.) Nuff said.

See you all at the next meeting, 73's.

de Walt KAØDMB

"Money can buy you the best dog in the world, but only love can make him wag his tail." — Grit

FAST SCAN TV NET

Beginning January 13 we will be called 01:00 UTC on 146.43 simplex. We will be looking for video on 439.25mhz but would appreciate your checking in on 2 meters first so we won't have any video doubles. Anyone interested in fast scan television is urged to check in, whether you have video or not. We have six fast scan stations in Omaha and four in Fremont. Pictures have been received in Fremont from Omaha stations with as little as 10 watts input to a 48 element "j" beam. We have a lot more information on fast scan so check in with us and find out.

73's

Jay C. McAleer, WAØLLQ

NOTES FROM THE BOARD OF TRUSTEES MEETING held on January 5, 1982 at the Blue Cross/Blue Shield Building at 19:30 Hours.

Members present: President Walt Brown, KAØDMB; Dick Fehrman, KAØAAB; Bill Martin, NØANQ; Lysle Renne, NØCKH; Frank Bruner, KØSST; Mitch Gagne, NØAZF; Fred Genovesi, KAØKDJ; Chuck Hoffman, WBØNVL; Jim Wilson, WBØJPN; and guests Bob Lockwood, WAØDHU; Jim Sanford, NØAIH; and Ellen Morrissey, WBØHWF.

The Board positions of Treasurer and Secretary were filled by Dick Fehrman, KAØAAB and Lysle Renne, NØCKH respectively.

President Walt appointed Ellen Morrissey, WBØHWF to the new position of Executive Secretary to serve at his request and for the benefit of the Club in general.

To fill the Board vacancy created by Board Member Walt Brown assuming the position of President, it was moved and seconded that Jim Sanford, NØAIH be presented to the next general membership meeting for their approval to serve as a Board Member for the period of one year.

Auction Committee Chairman, Jim, NØAIH, stated that the 1982 auction would again be held at the Millard Legion Club on May 2, 1982. Chuck Peaker, KCØDB, is to be in charge of meals.

The Board accepted the Equipment Report presented by Jim, NØAIH and motion was made that the Report be presented and made a part of the Board records.

President Walt appointed Brian Zdan, KMØY to head the Legal Committee.

Education Committee Chairman, Bob Lockwood, WAØDHU, made his report and asked that consideration be made for determining a permanent base for classes. Bob also asked that a letter of appreciation be sent to Fr. Kelly for the use of Boys Town High School.

A Preliminary Budget Plan for 1982 was presented and discussed. Bill NØANQ, moved and Chuck, WBØNVL, seconded that the 1982 proposed budget be approved and it was further moved that each Select or Event Committee develop a financial plan for submission to the Board of Trustees prior to the expenditure of funds.

Moved and seconded that an Agenda for the Board Meetings be sent to each member of the Board of Trustees at least three days prior to such meetings.

President Walt presented a proposal received from ARRL for the establishment of a new category of club affiliation. It was moved and seconded that the presentation be given to the Legal Committee for study. The Board will take action on the proposal at the next Board meeting.

It was moved and seconded that the Board Meetings would be held the first Tuesday of each month in 1982.

Peace and harmony prevailed and the meeting was adjourned at 22:05.

Respectfully submitted
Lysle Renne, Secretary
NØCKH

NOTE: Unless otherwise indicated, all motions carried.

82 REPEATER UNDER NEW MANAGEMENT

The new callsign WAØYRS/R signifies that the 22-82 Repeater in Council Bluffs is now under the trusteeship of the Southwest Iowa Amateur Radio Club. The change took place on January 7, 1982.

It is not the purpose of this article to discuss the operation of the repeater prior to the effective date of the change. Rather, what we will do here is outline the current status of the machine and what can be expected in the future.

As currently configured, the 82 Repeater has these characteristics:

- * Split Site — Receiver located on a city-owned water tower near St. Albert High School; transmitter on a bluff near 1st and Pierce.
- * Motorola Tube-Type 250 Watt Transmitter; Solid State Receiver.
- * Hard wire connected by a dedicated telephone line that carries the audio and C-O-R voltage.
- * Autopatch Equipped with a private touch tone line interfaced at the transmitter site.

The current operating cost of the 82 Repeater is approximately \$600.00 per year or \$55.00 per month broken down as follows:

- \$17.00/MO. - electric power
- 19.50/MO. - dedicated audio & C-O-R line
- 18.50/MO. - private touch tone line

We think the expenses are excessive and we are embarking on a program that will reduce operating costs while maintaining the high reliability that has become a Hallmark of the machine. Our first priority is to replace the dedicated audio and C-O-R line with a 450 MHZ link. Simple arithmetic shows this will reduce operating costs by one-third. Other money saving ideas are also under study; among them a lower power transmitter for lower electric power consumption, and physically moving the repeater to a single site location where electric power would be donated and the 450 MHZ link would no longer be required. Naturally some of these changes will take time to implement.

There is one expense, however, that is inescapable. That is the \$222.00 per year for the autopatch line. We all feel that it is vitally important to keep the patch open and accessible for the convenience of all metro area users — especially in the event of an emergency — but we are a small club with limited resources and we cannot afford to maintain it without the support of the users.

We realize that many of you have recently contributed significant sums to the 82 Repeater and we certainly are not asking you to dig into your pockets again until you feel you have gotten your money's worth of use from the machine. That puts us somewhere between a rock and a hard place. We cannot support the repeater from the club treasury; and we do not want to ask a handful of users to bear more than their fair share of the costs of maintaining the machine.

What we are asking is that all area hams who want to see the 82 Repeater and its autopatch facilities stay in business take it upon themselves to share in its support with a fair donation. We will leave the amount up to the discretion of the donors.

We of the Southwest Iowa Amateur Radio Club are excited about our new venture. We are looking forward to many years of reliable service and emergency capabilities from the 82 Repeater. With your help, we know we will be successful.

de Swiarc

DX ANYONE?

A new column springs to life in "Ham Hum." Just hope I can keep it bouncing along. Will attempt to bring something of interest to the DXers, be they experienced, novice, serious, or the weekend DXer who likes to chew the rag with a G4 in England, the later which I feel is the essence of DXing, the Promotion of International Goodwill.

There has been a big Hoo-Doo lately over a letter circulated by Mr. Carl Henson WB4ZNH, concerning "DX nets" and "List" operation. Mr. Henson's letter of November 7, 1981 was sent to a chosen **few** DXer and DX clubs, (if you received one of his letters you are one of the elite "Big DXers" of DX Land) who are of the same opinion as Mr. Henson.

Mr. Henson's letter was read at our January Club meeting but for those of you, (the many) that are unaware of this letter, or you were unable to attend the January meeting, the gist of his letter follows:

Fellow DXer, I am sure you have been equally distressed at the growing problem of intentional QRM and poor operating ethics today.

We feel "Lists" and "DX nets" are overall the most significant and major contributors to our problems. (I wonder where Carl

was a couple of weeks ago when "SM2/C9" was on 28 megs? There were people calling for the "C9" over 100KC of the band. Talk about QRM!)

What Mr. Henson proposes is: Rule 12 of the DXCC rules be amended to read: The taking of "Lists" and the solicitation of DX stations to operate from a "List" or "DX Net" is poor operating ethics. (I wonder if Carl gets QST?) Please read: "Hows DX" in March 1979 QST.

If Rule 12 is changed to read as Mr. Henson desires, what does this mean to **you**? It means that any QSL card that you get from a DX station that you worked via a "List" or "DX Net" will not count toward your DXCC. Read Rule 12, "Operating Ethics."

I realize there are many DXers, myself included, who enjoy the thrill of the chase and breaking that big pile-up. However, "Lists" and DX Nets" have their place in the scheme of DXing, (again, "Hows DX" March 1979 QST).

I ask that **you**, the DXer, write a letter, (pro or con) expressing your opinion on whether the QSL card or cards on your wall should be disqualified because you worked the DX on a "DX Net" or from a "List." Please write to:

Continued next page

James Spencer W0SR
3712 Tanager Drive NE
Cedar Rapids, IA 52402

Jim is the new Chairman of the DXAC. Also send a copy of your letter to W1XX, John Lindholm at ARRL Headquarters.

More on "Lists and DX Nets" later. (I know, I know, enough already!!)

Look for "XF4-Revilla Gigedo" on 12 February. The XE-DXA will be operating there for that weekend.

I have it from a good source, (Murphy, Hi, Hi) that the gang that gave us KP4-Desecheo last year will be going to KC4-Navassa Is. Check your DX Bulletins.

Don't forget the ARRL International DX contest. "CW" 20 and 21 February, "SSB" 6 and 7 March. Good chance to snag some new ones.

The good DXer is in "Receive" more than "Transmit"!

73's es Gud DXing
de KC0DB

P.S. Just got this tidbit from a very reliable source, W4FRU John Tarrott, a well known QSL Manager, ZD9BV-Tristan da Cunha will be up March 1.

34/94 REPEATER

Ronald L. Sundsboe WA0MQM
Sgt. Carl J. Quijas WB0TUE
Brian Zdan KM0YJ
G. Steiner KB0YJ
Duke Humphrey WD0EWH
Terne Ramsey W0SBZ
Byron Anderson W9MEI
Joe Connell W0LHZ
Charles Michel K0QVL

J.D. VECBASTICKS KC0JU ON 160 METER ANTENNAS

Recently on 2 meters I've been hearing the guys talk about the problems they've been having with 160 meter antennas. Some saying they haven't got enough room for even a short antenna and others saying the short antenna they do have won't work worth beans.

Well, buffalo chips guys! Where's your imagination? Here's an antenna for 160 that you could fit into a cubbyhole and still have room for the XYL. The antenna takes up no more space than a 40 meter dipole so listen up and take notes.

The problem with most short 160 meter antennas is that most of the RF is lost in the tuner before it ever reaches the antenna. In the drawing I have improvised the use of 8 slinkies. You know that toy you got your kid last Christmas. Anyway, the slinkies are arranged in a dipole fashion, 4 to a side. The name of the antenna, by the way, is a helically-wound (loaded) dipole. The reason we need so many slinkies is because of the peculiar loading effect this antenna has.

Each 2 3/4 inch diameter slinky contains 70.5 feet of wire. Putting 2 sets of 4 together yields a grand total of 564 feet which is a little more than one wavelength of wire. The reason being that when RF travels down the feedline to the antenna, it sees only a half-wavelength's worth of wire due to the peculiar loading of this antenna I mentioned earlier. I'm not going to go any farther into the technical side of this antenna, you can reasearch it if you want.

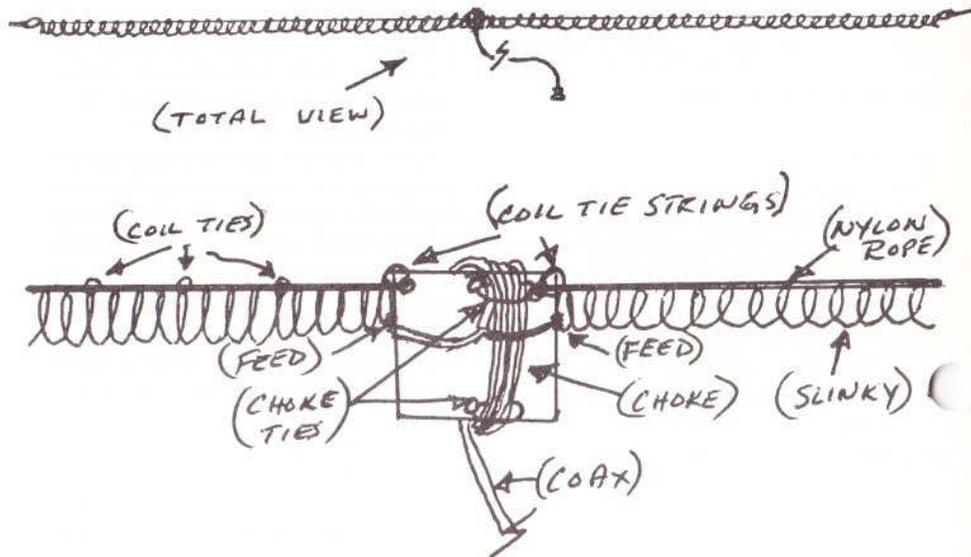
Now on to the construction of the antenna.

To bond the coils together the easiest way is to take copper wire and wrap it tightly around the first and last coil loop of each slinky. A more permanent way is to spot weld the coils together due to the fact you can't solder steel. Next, find a piece of plexiglas 4x4 inches and drill a hole in the upper left and right hand corners of the plexiglas and one in the upper and lower center. Attach 2 good-sized nylon ropes, no less than 20 feet each, as shown. These will be your coil support ropes. Put each rope through the center of each set of connected slinkies and attach the first loop with a piece of heavy string through the support rope hole and tie. Now for the feed line.

There is the choice of either zip cord or coax, zip cord being the easiest but requiring a balun (1 : 1) at the tuner. With the coax it's almost essential to wind a coaxial choke at the feed point because

of the high currents along the line. This is easily accomplished by winding 5 or 6 turns of coax around the plexiglas form in a circle and securing it to the plexiglas with a string through the top center hole and around the coax. Do the same for the lower hole. Mid sections of the choke can be taped. Next, feed the center end of the coax to the first coil loop on one side and do the same with the braid on the other side. The best thing to do is to strip about 2 inches of dielectric off the center conductor from the coax after separating the braid. Wrap it tightly around the coil and solder it good. The solder won't stick to the coil but works out fine in spite of it. Then heavily epoxy the connection so it doesn't slip or corrode. Do the same with the braid. Next, string the coil support ropes out in a dipole or inverted vee fashion, spreading the coil out evenly over the entire length to the ends of each rope. Secure the ropes. Lastly, so the

Helically-Wound Dipole Antenna



slinkies don't slip or move around, take a needle with some heavy thread and about every 5 or 10 coil loops poke the needle through the rope and tie it around the loop. This should keep the coils uniform. The antenna is not designed to be resonant on 160 without a tuner, so one is needed. It is easy to load up and a fantastic radiator for its size. The antenna tends to radiate a little better the longer it's stretched out.

Good luck and see you on 160.

DONATIONS

40/00 REPEATER

Ronald L. Sundsboe WAØMQM
Sgt. Carl J. Quijas WBØTUE
Brian Zdan KMØY
Ray Simmons WBØYFX
Noel Phetteplace, KAØGUD
Duke Humphrey WDØEWH
Verne Ramsey WØSBZ
Byron Anderson W9MEI
Joe Connell WØLHZ

22/82 REPEATER

Sgt. Carl J. Quijas WBØTUE
Brian Zdan KMØY
Don Sudduth WBØYAM
Larry Merriman KAØDKP

"The Ak-Sar-Ben Amateur Radio Club Inc., will present the annual Club Auction on May 2, 1982 at the American Legion Post #374, 4670 South 135th Street, Omaha, NE. This years Auction features a hot dinner served on the auction floor, and your favorite beverage from the cash bar. Check-in starts at 0800. Talk-in on 34-94 and 52 simplex. For additional information contact Jim Sanford, NØAIH Auction Chairman at 9718 Jaynes Street, Omaha, NE 68134 402-571-2704."

MINUTES FOR THE GENERAL MEMBERSHIP MEETING held January 8, 1982, at the Red Cross Building, 38th & Dewey Avenue, Omaha, Nebraska

The first meeting of 1982 was called to order at 19:30 hours by Walt Brown, KAØDMB, President. Meeting began with the Pledge of Allegiance.

Minutes of the previous meeting were approved as printed in Ham Hum.

President Walt reported on the January 5th Board of Trustees meeting and by action taken at the Board Meeting, introduced Dick Fehrman, KAØAAB as Treasurer for 1982 and Lysle Renne, NØCKH as Secretary for 1982.

New members accepted: Robert Hall, NØDGC, General Class; Doug Piper, KAØJWI, Novice Class; Vivian Fehrman, XYL of KAØAAB; and Robert Gehringer, KØIJW, General Class.

President Walt announced that FCC was only to be in the Omaha, area two times in 1982. Dates were January 20, 21 and July 8, 9. The office in

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\$2.50 per month.

continued from page 9

Kansas City will accept testees two times any month, the first and third Tuesdays, no appointment necessary at the FCC Kansas City office. Applications for Omaha should be made at least two weeks prior to the test dates.

President Walt announced his appointment of Ellen Morrissey, WBØHWF, as Executive Secretary, to serve at his request and for the benefit of the Club in general.

Tom Thiessen, KØPQR, read HR reports.

Bill Martin, NØANQ, auctioned off a 1977 Foreign Call Book.

Chuck Hoffman, WBØNVL, advises 22/82 soon to be I.D.d as WAØYRS/R.

Dick, KAØAAB gave the Treasurer's report which was accepted as read.

Standing Committee reports were given by: Bob Lockwood, WAØDHU, Education Committee; Chuck Peaker, KCØDB, DX Committee; Charles Michel on Charles Street, KØQVL, Courtesy Committee.

Vivian Fehrman, XYL of KAØAAB, gave a report on the Christmas Party held at the Stuart Anderson Restaurant for the Ladies Auxiliary.

President Walt announced that by action taken by the Board of Trustees at their January 5th meeting, Jim Sanford, NØAIH, was nominated, subject to acceptance by the general membership, to fill the Board vacancy. There being no objections from the floor, Jim was declared to be a Board of Trustees member by unanimous ballot.

New Business. Bill Martin, NØANQ, accepted the appointment as Membership Committee Chairman. Bill states that each Club Member is also on the Membership Committee and requests their help in his efforts to increase the membership of the Ak-Sar-Ben Amateur Radio Club.

Auction Committee Chairman Jim Sanford, NØAIH, announced plans for the 1982 Auction to be held at the Millard Legion Club, the same location as was used last year. Jim requested the help of any and all members of the club. It was pointed out that the auction is the only source, other than dues, of income for the Club. The Auction is to be held May 2, 1982.

The program was presented by Lou Cutler, WØVLI. Memories of WWII were brought back to many by the early 40s flight training film shown by Lou.

Watery coffee and doughnuts were served following the closing at 21:20 of the general meeting.

Congratulations, President Walt, for the first one under your belt. The rest now come easier.

Respectfully submitted,
Lysle Renne, NØCKH
Secretary

NOTE: Unless otherwise indicated, all motions carried.

2407 Alden Ct.
Woodbridge, VA 22192
Jan. 6, 1982

AK-SAR-BEN Amateur Radio Club
P.O. Box 291
Omaha, NE 68101

Hi, gang,

Well, another year has rolled around and once more I'm a tad tardy mailing my dues in. Maybe in a couple of years (or less) I'll be a lot closer and more on time — I plan to retire from the Navy in June 1983 and hope to come back to Omaha to live and work.

In the meantime, not a great deal to report from this area. I'm still plugging randomly at 5BWAS, but I'm beginning to think that Delaware and a couple of others are easier to work from Nebraska than from the Washington DC area. The biggest ham event here in the last year is that my older daughter is now KA4WDY and is about over her Novice nervous stage. Now the younger daughter is mumbling vaguely about how eleven year olds can do it as well as fourteen year olds, so maybe she'll try before too long. While we wait for that, Monica and I will work on mastering the CK-1 and Bencher we jointly got for Christmas.

Hope you all have a great 1982 and a fine year of ham radio.

73's
Dave Wells
K5QJG/4

CHANGE OF ADDRESS

Verla Kay Larwick KAØBDM
3324 S 82 Ave. Apt. #2
Omaha, NE 68124
Phone: 397-2882

Carl J. Quijas WBØTUE
9114 S. 13th Street
Omaha, NE 68147

ADD TO ROSTER

Joe Eisenberg WAØWRI
6627 Colby
Lincoln, NE 68505
Phone: 464-8882

NEW MEMBERS

ADDITION TO ROSTER

Vivian V. Fehrman XYL of Richard
L. Fehrman KAØAAB
7005 North 53
Omaha, NE 68152
Phone: 571-5537

Robert G. Gehringer
6344 Binney
Omaha, NE 68104
Phone: 556-6344

Doug W. Piper
1004 Roundup Rd.
Elkhorn, NE 68022
Phone: 289-3678

INTERNATIONAL PUBLICITY FOR THE QSL

WφのQSLビューロー訪問記

WφQQN宅の地下室が作業場

JA1PGH 川崎忠雄



ビューローのボランティアの一人KAφEAS。家業は床屋さん。店の裏に作業室が

アグザバーン・ハムクラブWφEQUのシャック。オペレートしているのはWφGFO。彼もボランティアの中心的メンバー

JAから届いたQSLカードを郵便局から受取るWφQQN(8月4日)



アメリカ旅行中、KφGHKの案内で、φエリアのQSLビューローを訪ね、その仕事ぶりを見る機会がありましたので、ご紹介します。

* * *

オマハ(ネブラスカ州)のダウンタウンから車で10分ぐらいのところにφのQSLビューローがありました。それは特別な建物ではなく、WφQQN(チャーリー)の自宅の地下室でした。

彼は数年前、電話会社を退職し、ボランティアとして奥さんのアルマとビューローの運営をしています。φエリアのQSLビューローは、オマハのアグザバーン・ハムクラブの中心的な業務として、約18人のハムの協力で運営されています。ここは海外からのφエリアへのQSLカードを受け入れるだけでなく、その仕事量は大変なものです。

ビューロー運営に生きがい

WφQQNの日課は、朝9時頃ダウンタウンの郵便局へカードを取り

に行くことから始まります。筆者が訪れた8月4日は、JARLからカードが届いており、チャーリーはサンタクロースのようにカードの入った袋を駐車場までしょって来ました。

この日JARLからは22袋、包装は他の海外ビューローから来るものに比べて、形その他規格がそろっているもので、扱いやすいとのことでした。

チャーリーの家までこれらを運びそこで奥さんのアルマと区分作業をするわけですが、大量なので夕方手伝いに来るハムや自分でカードを捜しにくるハムもいます。ボランティアの1人、KAφEAS(理髪店主)は店の裏を区分作業室にしており、客の少ない時間に1人で区分するそうです。

このように退職した人や比較的自由な時間を持つアマチュアの協力で運営されています。そのためにφエリアのアマチュアは、アグザバーン・ハムクラブを尊敬しており、特にチャーリーがレビータに出ると次

々に声がかかってきます。

チャーリーはビューロー運営に生きがいを感じており、退屈な区分の作業にもかかわらず楽しそうに奥さんと作業しています。φエリアのアマチュアの感謝とバックアップが、彼をささえているものと思います。

筆者が感じたこと

コールサインはいいねいに大きくくろくろと書いてください。年配のボランティアが眼鏡をかけて作業しています。

それと最近φのアマチュア仲間からWφQQN夫妻に感謝状が贈られました。われわれもそのようなボランティアに何か感謝の気持を表わしたいものだと思いました。ちなみにこのビューローに到着するカードの量のNo.1はJARLからでした。このビューローの住所は、

WφQQN, Charlie Rodgers
ZERO QSL BUREAU
P.O. BOX 291, D. T. S
OMAHA, NE 68101

TRANSLATION OF JARL NEWS

"When I was in USA. KØGHK took me to ØQSL Buro. I'd like to talk about it now.

There is a QSL Buro in WØQQN house. It is a 10 minute drive from downtown of Omaha. WØQQN (Charlie) worked at telephone company, but had retired a few years ago.

ØBuro is managed by Charlie, his wife Alma and many ham members of Aksarben club in Omaha. Great many QSL cards come from foreign countries. So they are very busy.

WØQQN usually goes to the post office of downtown at 9 a.m. everyday.

On August 4th, 22 QSL packs arrived from JARL. Charlie brought out them from the post office to his car. He took a large pack on his back like a Santa Claus.

He said Jarl QSL Cards are very easy to handle because they are all standard size compair with the other countrie's cards.

He carried them to his house and assorted with his wife.

It's too many to assort them,

some ham operators come to help.

The other comes to find his own cards. KAØEAS is one of the volunteers. He's a barber and his QSL Buro is in his barber shop. When he doesn't work, he assort the cards. The Buro is managed by the people who are retired or have free time. So the hams in Ø area have great respect for the AKSARBEN club. If Charlie on the repeater, many hams call him and say hellow and thank you.

Charlie finds his work worth living and manages the Buro happily with his wife Alma. I think many thanks and aid of ham in Ø area support him.

Thinking of reporter.

- We must write big letter and clearly for the volunteers.
- Recently the ham members of Ø area sent a letter of appreciation to WØQQN and his wife. I think we Japanese also hope to send a letter of thanks, because the most QSL cards come to the Buro from JARL."

CHANGE IN CALL LETTERS

Steven P. Hutchinson KNØL
From - WBØVLL



"Thought I'd return your garden hose, Irwin. Do you by chance have another snow shovel?"

HAM HUM SWAP

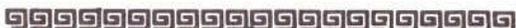
NO CHARGE FOR ADS (NON-COMMERCIAL) SUBJECT TO SPACE LIMITATION. MUST BE SUBMITTED IN WRITING TO P.O. BOX 291. SEE COPY DEADLINE PAGE 2.

- FOR SALE: Atlas 210X with AC console, VOX, NB and Mobile Mounting Kit. Excellent condition. Asking \$500.
Joe Roberts WAØSTV, 609 South East St., Valley NE 68064.
- FOR SALE: Midland 13-510 Synthesized 2 meter FM R16. Approximately 25 watts on high power, 1 watt on low. Asking \$195 or best offer. Will consider other offers or trade for 2M Handi—Talki.
Jon Karl Taute WBØMKN, 493-8017.
- WANTED: All band transceiver, used, for \$300 or less. Also used all band antenna or 20, 15, or 10 meter DX beam antenna.
Dallas Sawyer, 9207 Ruggles, Omaha, phone: 572-1563.
- FOR SALE: ICOM IC-720 with power supply. \$1,050. One owner, Ron AKØN, Shenandoah, IA. Also 1981 DX and US Callbooks, \$8 each or \$15 for both. Excellent condition. Phone day: 712-246-5270 or night: 712-246-3542.
- FOR SALE: Midland 13-510, 2 meter transceiver. Ron Sundsboe WAØMQM, 556-4914.
- FOR SALE: YAESU FT-101EE w/fan and matching speaker - \$500.
Kenwood TS-700A w/preamp - \$400. Both like new. Original boxes and manuals. Also AUTEK QF-1 audio filter - \$35.
Tom Moll NØBS/Ø, 331-3651.
- FOR SALE: Heathkit 2 meter Handi-talkie with charger \$60.00.
Contact Charles Michel, KØQVL 402-391-3782.



1601 AVE. "D"
 P.O. BOX 864
 COUNCIL BLUFFS, IOWA 51502-0864
 PHONE: (712) 323-0142

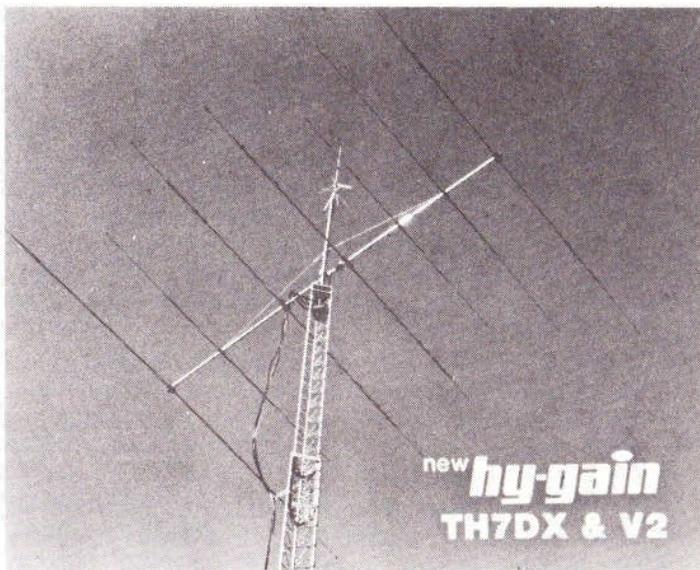
AMATEUR RADIO EQUIPMENT



STORE HOURS

Wed/Thur/Fri-12/5 ; Sat-9/5 (Closed Sun/Mon/Tues)

**THE KING IS DEAD [TH6DXX]
 LONG LIVE THE KING-TH7DX**



MODEL #391 -TH7DX-\$499.95

MODEL #392-CONVERSION KIT
 -TO CHANGE TH6DXX INTO TH7DX (LESS BALUN)\$199.95

HAMS WERE ASKED TO GIVE THEIR DEFINITION OF AN 'IDEAL' BEAM THAT WOULD BE 'PRACTICAL' AS WELL. THESE SPECIFICATIONS WERE THE OBJECTIVE OF THE TH7DX DESIGN, AND THEY WERE [X]-MET !

"ALL MODE": PERFORMANCE THAT IS GREAT ACROSS THE FULL BAND. [X]-MET WITH SWR OF LESS THAN 2:1 ANYWHERE IN THE BAND FOR THE SSB/CW OP. ALSO, HIGH PERFORMANCE OF GAIN & PATTERN ACROSS THE ENTIRE BAND. [X]-MET WITH NEW, DUAL DRIVEN ELEMENT, DESIGN.

"PRACTICAL": A 24 FOOT BOOM WITH 20 FOOT TURNING RADIUS [X]-MET FITS THE AVERAGE LOT OK. SUPPLIED WITH A BALUN TO PREVENT DELAYS. KEEP IT SIMPLE- SO YOU DON'T MAKE A CAREER OF ASSEMBLY. [X]-MET , AND ALL STAINLESS STEEL HARDWARE TO BOOT, FOR CORROSION AND RUST PREVENTION. AND--THIS IS ALL 3 BANDS !