



HAM HUM

Published by
AK-SAR-BEN AMATEUR RADIO CLUB, INC.
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Omaha, Nebraska 68101



December 1979

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No. 12

OMAHA
AMATEUR CENTER INC.

2565 Dodge Street Omaha, Nebraska 68131 (402) 346-5530

*Merry Christmas
and
Happy New Year!*

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

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AK-SAR-BEN AMATEUR RADIO CLUB, INC.
Post Office Box 291
Omaha, Nebraska 68101

President Thomas L. Thiessen, KØPQR
Phone: 556-9120
Editor Dick Eilers, WØYZV
Res.: 397-3999
Phones: Bus.: 342-1402, X-200
Assistant Editor John Snyder, WØWRT
Res.: 556-1538
Phones: Bus.: 397-3000, X-3542

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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

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

**NOTE CHANGE IN DAY AND PLACE FOR
1979 ANNUAL MEETING
AK-SAR-BEN AMATEUR RADIO CLUB, INC.**

WHEN: FRIDAY, DECEMBER 14, 1979 (NOT TUESDAY)

TIME: 7:30 P. M.

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

ELECTION OF OFFICERS AND SUCH OTHER BUSINESS AS MAY REGULARLY COME BEFORE THE MEETING.

PAID CLUB MEMBERS ELIGIBLE TO VOTE - 1980 DUES PAYABLE AT THIS MEETING.

ONLY BUSINESS TO BE CONDUCTED - NO PROGRAM.

CHRISTMAS PARTY

WHEN: SUNDAY, DECEMBER 16, 1979

TIME: 2:00 P. M. to 4:30 P. M.

WHERE: SOUTH OMAHA GENE EPPLEY BOYS CLUB
5051 South 22nd Street (22nd and P Streets), Omaha

GIFT EXCHANGE FOR THOSE WHO DESIRE TO PARTICIPATE
(approximately \$3.00 value.)

There will be two separate exchanges - one for men and one for ladies.

DOOR PRIZES - TOYS AND CANDY FOR CHILDREN - SANTA CLAUS WILL
BE THERE. (Gift exchange and refreshments to follow Santa.)

LADIES, REMEMBER THOSE COOKIES AND CHRISTMAS GOODIES; THE
CLUB WILL FURNISH THE DRINKS.

AVAILABLE TO ALL WILL BE: FOOSBALL, TABLE TENNIS, POOL TABLES,
AIR HOCKEY AND BASKETBALL.

BRING YOUR FAMILY AND FRIENDS (GUEST MAY PARTICIPATE IN THE
GIFT EXCHANGES.)

* * *

Best wishes to you and yours for a very Merry Christmas and a Happy New Year
from the Board of Trustees of Ak-Sar-Ben Amateur Radio Club, Inc.

GOOD NEWS

Irene, WBØMPC, received a most pleasant surprise this week when being notified that she had been chosen "TOP FLIGHT OPERATOR" #197 in the YL INTERNATIONAL SINGLE SIDE BAND COMMUNICATION SYSTEM. This Emergency System consists of 12,500 worldwide members and has been in daily operation for 16 years.

This award is more meaningful than only six TOP FLIGHT OPERATORS from the United States are chosen each year and six from other parts of the world.

Previous to this award Irene had been elected one of the twelve mem-

bers on the BOARD OF DIRECTORS of this fine organization.

In talking with Irene she states that although she puts in many many hours with the SYSTEM, she feels that it is most rewarding and promotes GOODWILL and FRIENDSHIP for the ADVANCEMENT of AMATEUR RADIO. She invites local inquiries regarding this ORGANIZATION-both YLs and OMs.

Earlier this year Irene was nominated and elected A-1 OPERATOR by the ARRL.

Tom, WBØTMI

THE PREZ SEZ

It is the close of another year, and the end of my term as your President. It has been a most rewarding year for me. I've met many new people and gained some very good friends along the way. My only regret is in not having had enough time to spend on Club affairs, and my failure to achieve some of the personal goals I had set for myself at the beginning of the year.

There are many people I would like to thank for making this an enjoyable year in our Club, but there is no point in reprinting most of the roster. There is, however, one person I would like to single out above all others, as having been the guiding force behind whatever success I've had during my term. The monthly reminders of schedules and deadlines, the handling of correspondence, the professional message service, the always pleasant attitude, and the understanding of my failure to ever be on time with anything, have all contributed to my achievement of anything worthwhile this year. The person I'm speaking of isn't even a Club member, and yet she is almost the very heart of our Club. By now, I'm sure most of the other Past Presidents have guessed that I'm talking about Zita Tesar. As personal secretary to Dick Eilers at World Insurance Company, she is either one of the world's most efficient people, or else Dick must just close his eyes and suffer the time loss. Perhaps only I can appreciate just how much this lady has done for me this year. I know how much time she spent keeping me on track, and I've been told that it's minimal compared to what she spends on the Zero QSL Bureau, on a daily basis. I must confess that I simply do not understand how she can devote so much of her time to our Club. I can tell you without any hesitation that

the day our Club no longer has her services, is the day we take a giant step backwards. In any event, while I know our Club has presented accolades to Zita in the past, please allow me the simple form of a very large THANK YOU.

I would like to take this opportunity to wish all Club members, and their families, a most joyous Holiday Season. I hope to see everyone for the last big bash of the year, the annual Club Christmas Party, on December 16th. I have it on very good authority (Direct from Santa) that all Club members have been good this past year, and the bag of presents should be larger than ever. As in years past, this event is truly a family affair, so be sure to bring along the kids. The Boys Club has so many games available, for children of all ages, that they probably won't be ready to go home when it's over.

I have enjoyed bringing you the spinoffs of Murphy's Law at the close of this column each month. While often humorous, there is a great deal of truth buried in them; I have saved my favorite for last. This month we shall look at Cole's Law: No matter how you slice it, it's still cabbage!

73's. Be seeing you around at the meetings.

Tom, KØPQR

MEMBER ADDRESS CHANGE

Tom O. Mikkelsen, WAØPOD
3003 Park 16th Street
Moline, Illinois 61265

RECENT CONTRIBUTORS

Ham Hum Postage

Dana College Amateur Radio Club
Samuel S. Kaplan, WDØBVH

Repeater 34/94

Dana College Amateur Radio Club
Alan Lee Fleming, NØBN
Mitchel H. Gagne, NØAZF
David B. Hamilton, WDØDLN
Albert H. Maller, WØDCQ
John D. Peterson, WDØCSH
Frank M. Wolczak, WAØIWF
Brian Zdan, WBØAJI

Repeater 22/82

Albert H. Maller, WØDCQ

Repeater 40/00

David B. Hamilton, WDØDLN
Albert H. Maller, WØDCQ
Brian Zdan, WBØAJI
D. L. Eilers, WØYZV

Sincere appreciation to all contributors!

NOTES FROM BOARD OF TRUSTEES MEETING 11-6-79

Present were Tom, PQR; Bob, TVP;
Jim, QGV; Wayne, HEW; Frank, IWF;
Dave, DLN.

There was no treasurer's report;
Mac, BMJ was ill.

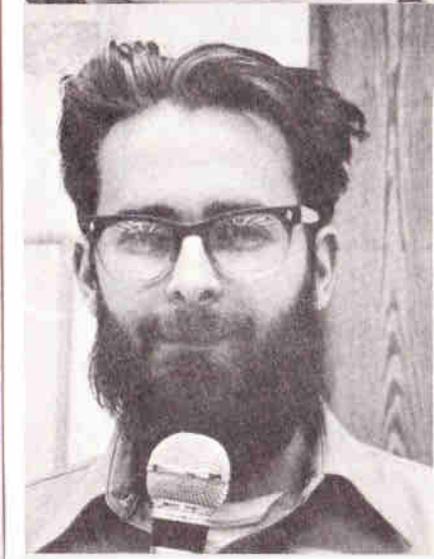
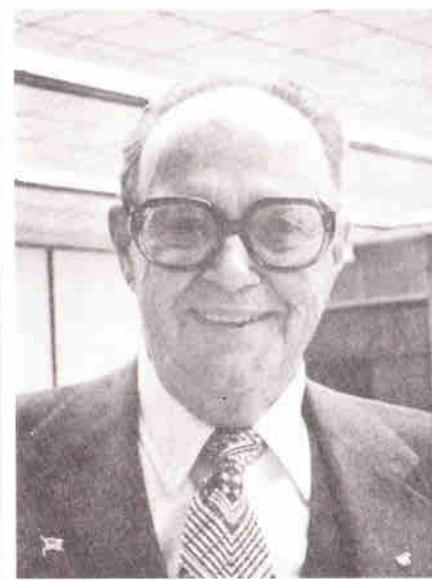
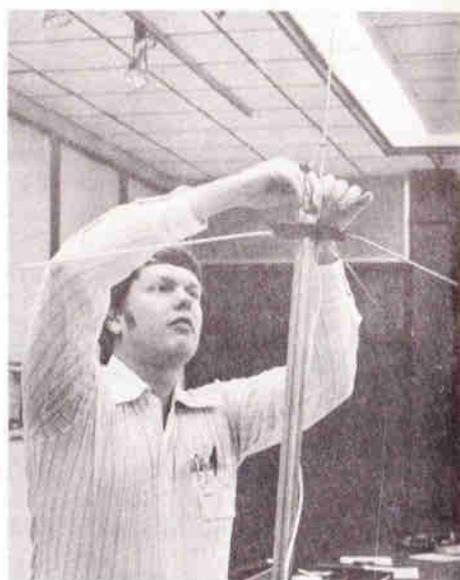
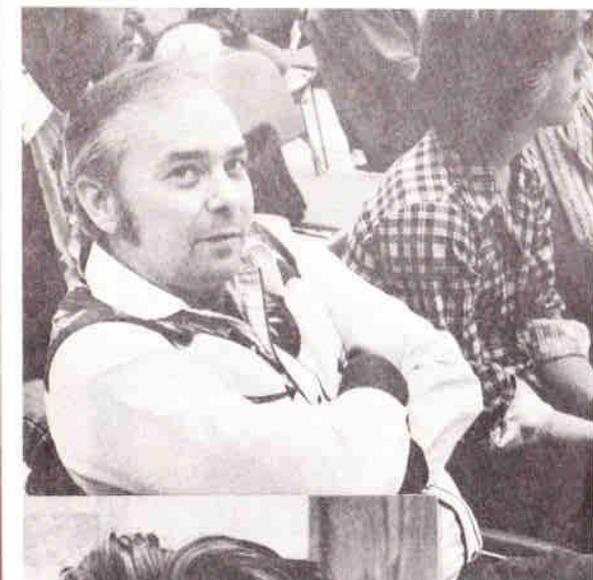
The Board met in the new Red
Cross Building. Dick Eilers gave the
members a guided tour. Very nice,
thanks Dick!

The only business was a motion to
allocate \$450.00 for our Christmas
Party, that made by Frank, IWF,
seconded by Dave, DLN, and approved
by the Board.

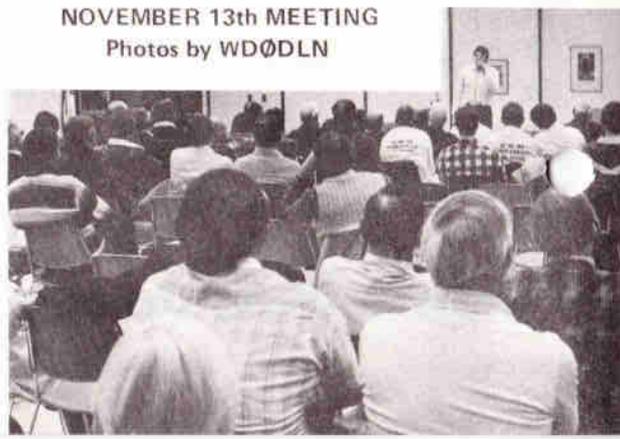
Robert R. Chereck, Sr., WBØTVP
Club Secretary

1980 DUES ARE DUE AND MAY BE PAID AT THE
DECEMBER MEETING. PAYMENT AT THIS TIME
WILL SAVE EACH OF US POSTAGE COST.

Regular member	\$10.00
Regular member and spouse	\$12.00
Student member	\$ 4.00



NOVEMBER 13th MEETING
Photos by WDØDLN



Sioux Falls AMATEUR RADIO CLUB, INC.

WØZWY



P. O. BOX 91
SIOUX FALLS, SOUTH DAKOTA 57101

October 29, 1979

WØQSL Bureau
Am-nar-oen Radio Club
P.O. 293
Omaha, Nebr. 68101

Gentlemen:

The Sioux Falls Amateur Radio Club and the ARRL 1979
Dakota Division Convention Committee would like to
thank you for your fine display during our convention.

We certainly hope that the results were worth the
effort. Without your help the convention would not have
been the success that it was.

Sincerely,


Loris Johnson, WØBRIQ


Toby Wellerstein, WØWOT

(Editor's Note: In behalf of the Club
and the QSL Bureau, we also extend

our thanks and appreciation to
Charles, WØQQN and Alma Rodger

1980 CODE AND THEORY CLASSES

WHEN: BEGINNING MONDAY, JANUARY 7, 1980

TIME: 7:30 P. M.

PLACE: TO BE ANNOUNCED AT DECEMBER ANNUAL MEETING AND VIA ARES NET

Classes will continue concurrently two evenings per week until mid-April.

Text for Novice: "Tune In The World," the ARRL "License Manual" and the AMECO Amateur Radio Theory Course textbook.

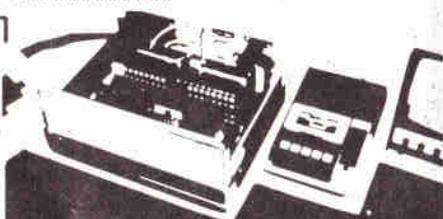
Text for General: ARRL "License Manual" and the AMECO Amateur Radio Theory Course textbook.

Text for Advanced/Extra: ARRL "License Manual" and the AMECO Amateur Radio Theory Course textbook.

Instructors recommend textbooks be secured prior to beginning of classes.

ANYONE WELCOME TO ATTEND - NO PRIOR REGISTRATION NECESSARY

- Appointments Calendar
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WBOBMV Mike Wilczynski

NOAZF Mitch Gagne

KAOEAS Darrell Bermel

NOAON Mike Bruening

KAOBAK Sandy and WDODLN Dave Hamilton

WDOHBY Ed Hofmann

WBOQGV Jim Peterson

KAOEAD Vern Labenz

KAOOMB Walt Brown

WBOVTP Robert R. Chereck, Sr.

WDOHRG Paul H. May

KOPQR Tom Thiessen

NOBN Alan Lee Fleming

WBOAJI Brian Zdan

KAOBDT George R. Whitney

WAOBMJ Mac McLaughlin

WBOYZR Everett P. Dietz

KOQVL Charles A. Michel

WBOHPP Hilton Norton

WOYZV Dick L. Eilers

WDOEWH Duke Humphrey

KAOCKO Lysle Renne

WBOUEB Ted J. Ciurej

WBOPPF Gerry O'Harrow

WBOSGB Ray Howerter

WODCQ A. H. Maller

WOHXL Dick Newsome

WOFHA Harold Wetzel

WOWEN John Davey

KAOAAB Dick Fehrman

WQQN Charlie Rodgers

WBOAUM Dean R. Summers

WOYDV John W. Ferrel

WAOIWF Frank Wolczak

WDOGIL Ray Fink

and

Happy New Year



DE-NØAON

Well, folks, I'm back again this issue for what will hopefully (although that's a relative viewpoint) be the first of a regular series of columns for Ham Hum. Expected topics of interest for these articles will include, but not be limited to, DX'ing, contests, local news, trivia, and any other bits and pieces of "news" that may arise, and of course, reader input is welcome and encouraged!

"Gee Whiz Dept". . . during the week of Nov. 5-11, the solar flux number skyrocketed to over 380! With this bonanza of solar whoopee, the HF bands came alive with 24 hour-a-day DX, while 6 meters opened up to provide several local VHF'ers with some much needed KL7, KH6 and JA contacts. Among those snagging the rare ones: Frank WAØIWF (who now only needs Arkansas for his 6M WAS), Dave WDØDLN, and special congrats to Don, WBØJTH in Missouri Valley who wrapped his 6M WAS with the KH6! . . . "QRZ DX?". . . The long awaited arrival of 8Z4A (Saudi/IRAQ neutral zone) came on the afternoon of Nov. 10, much to the delight of thousands of DX'ers around the world. It soon became obvious, however, that many Americans need to read up on split-frequency operation! Calling the 8Z4 on his own frequency when he's working split is bad enough, but it's even worse when you consider he was on 14,197 KHZ! (Wonder if the Feds were listening?). . . and of course there is always the proliferation of lids who insist on tuning up or "playing policeman," . . . "atta-boys". . . To John WBØCMC on the performance of the "new" 40-00 machine. John reports greatly improved sensitivity in the receiver, as well as some nifty new control options. Mobiles have been heard accessing the repeater from west of Fremont! Good work, John!, . . . To

Tom KØPQR, for his soon to expire term as club president. Tom will serve an additional year on the board as immediate past president, bringing his total to five consecutive years of service to the club. . . . On behalf of many, many club members Tom "Thank you!" . . . "CQSS, dept." . . . Among the locals heard battling it out during this year's phone sweepstakes on Nov. 17 and 18: WBØVLL, ex-Omahan KØJBL, and of course (Ahem) the KØDG multi-op team which tallied up 1200 plus contacts and a clean sweep of multipliers. Dick and I would like to thank Dave WDØDLN, Tom KØPQR, Chuck KØTVD, Ray WDØGIL, Mitch NØAZF, Dean WBØAUM and everyone else who stopped by to wish us luck! Hopefully, we copped the state multi-op honors this year! . . . "Help". . . If you've got ideas, news or views you'd like to pass along for these articles - let me know. If you work a rare one, know of someone who did, or have any other goodies to pass along, please see me at the monthly club meetings, on 34 94, or call during the evening at 291-6781-73 for now and see you next month!

ADDITIONS TO ROSTER

Robert J. Kosalka, KAØEMH
5003 Sunset Drive
Ralston, Nebraska 68127
Phone: 339-0735

Aileen K. Renne
(XYL of KAØDKO)
5711 North 27th Street
Omaha, Nebraska 68111
Phone: 455-0805

Harry B. Tiller, KAØBUG
170 Skyline Drive
Council Bluffs, Iowa 51501
Phone: 322-9114

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A LOW-COST LINEAR

by Frank Griffin, WB6AOW
Box 633, Port Hueneme, Calif.

Tightwads awake! Need a few extra watts on Six and don't want to blow the converter funds? Well, read on. For less than \$20 you can have a rig that will deliver 150 watts output or more. And it starts like this:

The 811 tube (two of them) is the basis of this rig. The tube is cheap even if you have to buy new ones, and is plentiful in surplus. The filament transformer can be any old 6-volt center-tapped iron you have that can deliver 8 amps. Everybody has 4-pin sockets and No. 12 wire. For the No. 6 used in the tank coil, buy your power-line crew a cuppa cawfee. And the tank capacitor is cut down from most anything in the junkbox. The only thing I had to buy was the chassis.

Mount the tubes, the tank capacitor, and the transformer on the chassis and most of the rig is built except for a bit of wiring.

The circuit itself is the basic grounded grid linear, which requires no tuned input tank and runs Class B without bias. This means that the input circuit reduces to two filament chokes and four .02-mf capacitors. Since the filament chokes must carry 8 amps, they'll have to be a bit large. Figuring 700 circular mils per amp, No. 12 wire works out great.

I made my chokes by winding two layers of No. 12 on 1-1/2 x 1/2 inch powered iron slugs, and they dipped out to be resonant about 35 Mc. If you can't find any slugs, 25 turns of No. 12 on a 1-1/8 inch form air-core will do. The important thing is to re-

sonate below 50 Mc., but not too far below.

Mount the chokes, wire them in, and run two of the .02-mf capacitors from the filament pins to the input connector.

Now ground the grids and the rig's input is complete if you want to do it the easy way. If you're curious about the grid's current, though, follow the schematic.

As for the final tank circuit there's not much to be said. The capacitor from the plates to the tank is a high-voltage TV bypass. The tuning capacitor itself was made from sections cut off a Johnson 50E45 variable in the junkbox. The final tank coil was wound around a form measuring 1-1/2 inches O. D., from No. 6 wire, and the No. 6 was flattened and drilled so that it would mount to the tuning capacitor and chassis. Use star type lock-washers when mounting the coil to be sure of a firm connection.

The antenna tap was determined experimentally as no bridge was available. Set the tap for best loading and modulation. And that completes the construction.

Testing is easy. Connect the driving rig and tune it for about 95 ma of grid current to the 811's. Once the loading of the driver rig is set, touchup can be done by watching the fed-through power from the linear with B+ off. Then apply B+ to the linear and dip plate current. Check for upward modulation and you're on the air.

I am using mine with a 750 v supply and loading to 350 ma in operation; the standby current is 30 ma. This figures to be 262.5 watts DC input, and I measure 150 watts out.



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2 KW RF Transformer	42.50	2.00
1 K Toroid Balun	22.50	2.00
2 K Toroid Balun	42.50	2.00
Beam Balun (6 KW PEP)	47.50	2.00
Loop Amplifier	67.50	2.00
Plug-in Loop (160/80 meters)	47.50	2.00
Plug-in Loop (broadcast)	47.50	2.00
Plug-in Loop VLF (150-550 KHz)	47.50	2.00
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FCC burdens QSL Bureau-by W0QQN

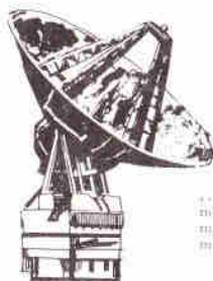
It takes no genius to visualize what the latest FCC call changing policy might do to an otherwise peaceful QSL Bureau. Years ago we used to be able to accommodate people by forwarding their cards to another sorter when they changed calls. This job has turned into a monster and we can no longer keep up with it. Therefore, we now require envelopes under each call to receive cards. This is required for several years since we do at times receive cards up to three years after the QSO. We do hold cards for at least one year and usually longer but the files would eventually cover the earth if sooner or later we didn't destroy them. Then too, if the FCC were to reissue the call which could happen, the new owner would be paying postage for cards of no value if we held them too long.

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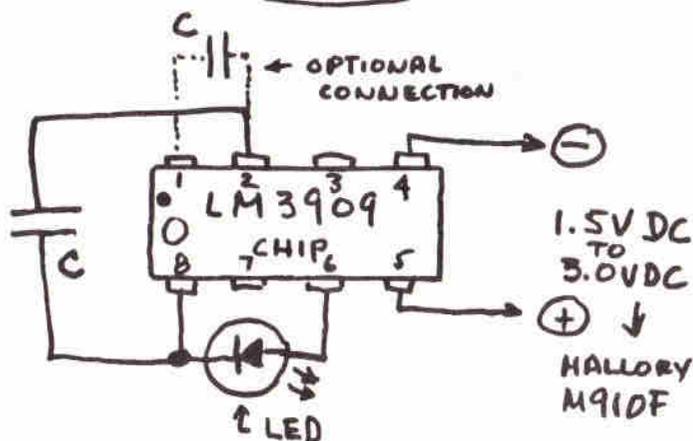
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- Heathkit HW2036 synthesized 2 meter xcvr, with Heathkit Micoder II microphone installed. 18 watts out. Works great—\$250.00.
- Call Chuck Sudds, KØTVD; Omaha (402) 455-9916.
- FOR SALE: Clegg FM-27B with manual, good condition—\$225.00;
- Drake TR-22 with 34/94, 22/82, 40/00, 37/97, 52, 46, 49, 16/76, 25/85, 28/88, 07/67, 94/94, 76/16, 94/34, 34/34 and xtals for 04/64 and 75/15; also has touchtone, battery and charger—\$125.00.
- Heathkit sine-square generator—best offer.
- John Gebuhr, WBØCMC, phone 553-6414.
- FOR SALE: ALMEGA power supply 13.8 VDC @ 3.5 amps; TRAC-2 memory keyer and nye paddle; HEATH model HD1250 solid state grid dipper, case and coils;
- HY-GAIN 23DQ (40 & 80) trap dblt antenna.
- Charles Mack, WØKVZ, 6228 So. 39 St.,
Omaha, NE 68107; phone 731-0580.
- FOR SALE: Drake TR-3 with AC-4 power supply—\$400.00 or best offer.
- Ron Erickson, AKØN (Ex-WBØGDA)
R. R. #2, Essex, Iowa 51638;
phone (712) 379-3230
- FOR SALE: Heath HW-16 transceiver with HG-10B VFO.
- David Dreith, NØANR, 8722 Granville Parkway,
LaVista, NE 68128; phone 331-6844.
- FOR SALE: Ringo Ranger 2M ant., used—\$15.00; Hufco 250Mc freq. counter—\$59.00;
- Nylon safety belt, 6000 lb. test—\$69.00;
- Yaesu 620B, 6M SSB—\$260.00.
- Richard Swig, WAØZQG; phone (712) 322-7775
- FOR SALE: One Drake MN-2000 - mint—\$150.00.
- Call 558-4629, Shad, WBØLXP.

Christmas

Dear fellow
"Hams":

Thanks for your
patronage in 1979

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the coming year,
and may you all
have a joyous
Christmas.



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