



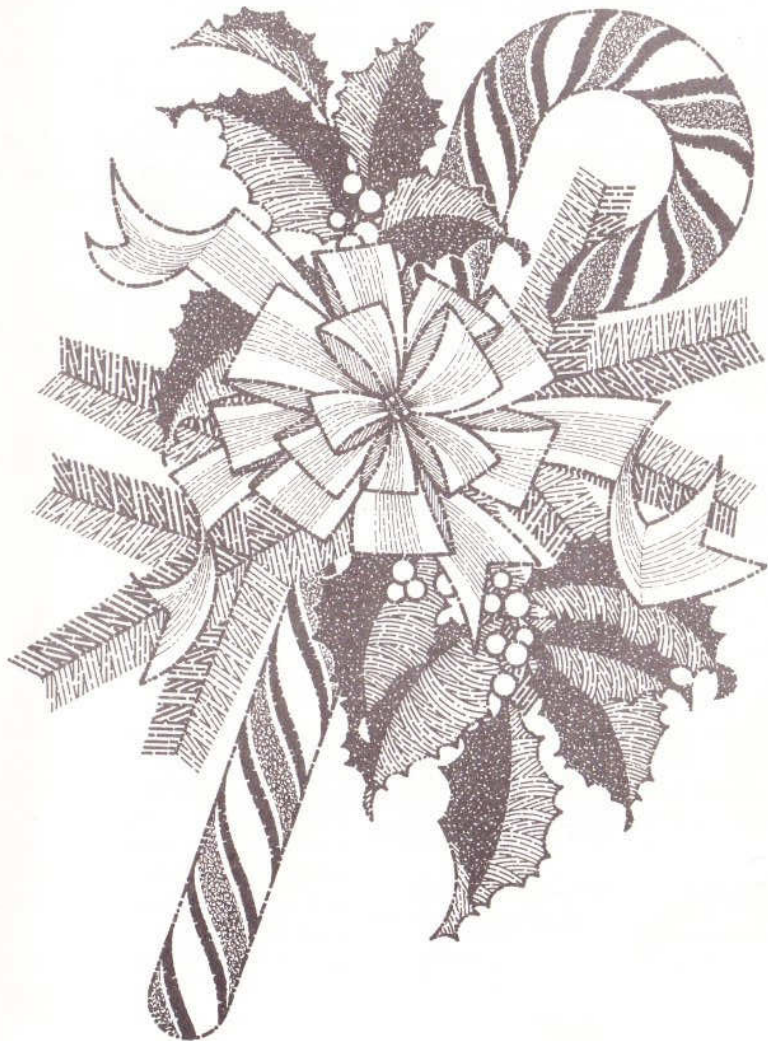
HAM HUM

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



December 1982

Vol. XXXII
No. 12



The Club Family Christmas Party will be at the South Omaha Boys Club, Sunday, December 12, from 2:00-4:00 p.m. See PREZ SEZ column, page 3.

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

Post Office Box 291
Omaha, Nebraska 68101

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Copy deadline for Jan. is Dec. 23rd

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, December 10, 1982

TIME: 7:30 P.M.

WHERE: HEARTLAND CHAPTER
AMERICAN RED CROSS
38th and DEWEY AVENUE
OMAHA, NE 68105

PROGRAM: Annual Meeting
Election of Officers

THE PREZ SEZ

"Tiz the Season to be Jolly - tra, la, la, la," and before you realize it we will be singing "Auld Lang Syne," issuing out the old year and bringing in the new one of 1983!! I guess what I'm saying is that the Holiday Season is now upon us, which means another twelve months have come and gone since I became your president. It is also a time for contemplation, but first let me take care of the priorities.

Our sincere thanks go to Lou Cutler - WØVLI for supplying the November program "Airborne Combat Electronics," and also to Dick Pitner - WØFZO and to Al Smith - WØPEX, President, Sioux City Club who enlightened the membership regarding the 1983 Midwest Division Convention being sponsored by the Sooland Repeater Association, April 15, 16 & 17, 1983 at the Marina Inn, Sioux City, Iowa. He has promised to come back again with much more in the way of details very soon. Regardless, you are both welcome at any time.

In retrospect, the past year has been one in which your Officers and Board tried to offer a variety of programs so that whatever your interest might be it would be covered. Hopefully, you enjoyed them. If not, I would again suggest that you let your pleasure be known through the use of the "Suggestion Box."

Also in retrospect, you as Club members have been engaged in a wide variety of activities - all helpful to individuals, organizations or the community. Such things as Multiple Sclerosis Bikethon, White-Cane Walk-a-thon, various parades, a flood (Emerson, Iowa), train derailment, storm watches, a tour of Cox Cable, a journey with Prince Maximillian up

the Missouri (courtesy of Inter North). Many hours have been volunteered by Club members in teaching new prospective members in classes, not to mention the participation in our Annual Field Day exercise. The TVI and RF Committee has indeed helped in eliminating problems between "Hams" and their neighbors. Many, many hours are spent by our MARS group in passing traffic between the Navy-Marine forces and their loved ones. The ARES members spent many hours developing a RTTY system throughout the state and have organized a network of stations for emergencies. Your Board has laid the "groundwork" for long-range activities (public relations, i.e., next year's Field Day with a new look) - also started the ball rolling on a long sought after "tax exempt" status for the Club.

I could go on and on, and I have probably missed a lot of activities being performed by you, although I know you as a Club are especially proud of our QSL Bureau volunteers and the many hours they spend getting our cards to us. Anyway, I just want all of you to know that this is the reason our Club has prospered over the years. I know that you have heard most of this from your "Past Presidents," but I want you all to know that I have met many new friends and have enjoyed working with all of you, and I just want to add my voice to that chorus!

I want to personally thank my Board Members for openly expressing their support or opposition to the myriad of subjects brought before them and for their generous help throughout the year. To all my Committee Chairman (too numerous to

mention here) I want you to know that without your help and committee we couldn't have functioned efficiently. "Thank You" to my Executive Secretary Ellen Morrissey, for all her untiring work in preparing Membership Cards and the various Certificates and for all those little jobs that take so much time. To my Advisor on the Board - Past President Jim Wilson and to my Vice-President Bill Martin, "Thank You." I think you will agree our meetings wouldn't be complete without our refreshments lady - Aileene Renne, XYL of our Secretary to the Board Lylse Renne - both will be missed greatly. You both have my deepest appreciation for a job well done. And last but not least to our Treasurer Dick Fehrman, a sincere statement of appreciation, when I say that each and every one of you have made my year one never to be forgotten, again "My Sincerest Thanks."

A couple of reminders: The Club Christmas Party - December 12, 1982, from 2 - 4 P.M. at the South Omaha Boys Club. All members are invited and Santa is looking forward to seeing all your little ones! There will be a gift exchange for people who wish to participate in it. Just bring a gift for a "Ham" and/or XYL for about \$5.00. The kitchen will prepare the hot coffee and punch, however, each person is asked to bring cookies, candies or other sweets to eat. There will be lots of "Great Gifts" for all on a Christmas Party Drawing, so plan to join us there and be ready to carry away a prize!!!

The current Officers and Board are extending an invitation to those newly elected Club Officers and Board to join them in their December Board Meeting - December 14, 1982 at 7:30 P.M. at Blue Cross -

Blue Shield Building, 72nd and Mercy Road for a joint meeting.

And of course I hope to see you all at our regular Club meeting on December 10th, remember it is our Annual Meeting and the Election of Officers. Till then,

de Walt KAØDMB
Merry Christmas &
Happy New Year

NEW MEMBERS ADDITION TO ROSTER

Christopher Martin (no call)
4517 N. 61
Omaha, NE 68104
Phone: 451-4988

Ryan T. Daniel, KAØPCZ
6728 S. 52
Omaha, NE 68117
Phone: 734-3672

Jeffrey W. Connors, KAØODN
1008 S. 41
Omaha, NE 68105
Phone: 346-6787
Bus. Phone: 712-325-0901

CHANGE OF CALL

Richard A. Flebbe
from KAØJKX to
NØEFF

Dave Ahrendts
from KAØHTW to
KCØXT

NOTES FROM THE GENERAL MEMBERSHIP MEETING Held on November 12, 1982, at the American Red Cross Building Omaha, Nebraska

President Walt Brown, KAØDMB, opened the meeting at 19:30 hours, leading the attendees in the Pledge of Allegiance.

Minutes of the last general meeting were approved as published in the November issue of Ham Hum.

Minutes of special Board of Trustees meeting held September 25, 1982, were read and approved. (These minutes appear elsewhere in this issue)

It was moved and seconded that the Treasurer's Report as presented by Treasurer Dick Fehrman, KAØAAB, be approved.

Walt, KAØDMB reported on several items received via the Suggestion Box, and urges the continued use of the S. B. in the future.

It was moved and seconded and approved that the following applications for membership be accepted. KAØODN, Jeffrey Connors, Technician class; KAØPCZ, Ryan Daniel, Novice class; Christopher Martin, about-to-be class.

The club Christmas Party was again announced for December 12th, 1982, 2:00 to 4:00 P.M., at the South Omaha Boys Club. Voluntary gift exchange, about \$5.00, man's gift or woman's gift, or both.

1983 Novice and General instruction classes were announced as of January 13th, 1983, to be held at the Grace Bible Institute.

WØFZO, Dick Pitner, gave a review of the preparations to date for the Sooland Repeater Assn sponsoring the Midwest Convention for 1983 to be held in April.

Bill Martin, NØANQ, sold at auction several reference books, the proceeds going to the 34/94 fund.

Door Prizes were won by: Charles Michel, KØQVL; Joe Eisenberg, WAØWRI; Bill Martin, NØANQ; Jim Peterson, WBØQGV; Dave Smith, K3CRF; Tom Thiessen, KØPQR; Jeff Connors, KAØODN, Jerry Steiner, KBØYJ; Chuck Rush, NØAZ; Jim Wolfe, KAØMHM; Bob Carl, NØAZA; Dick Jugel, KØDG; and as usual, Mitch, NØAZF, left early and missed again.

The meeting was adjourned at 20:30 hours for the program, Airborne Combat Electronics, presented by Lou Cutler, WØVLI, followed by coffee, donuts and cookies.

Respectfully submitted,
Lysle Renne, NØCKH
Secretary

MINUTES OF A SPECIAL BOARD OF TRUSTEES MEETING held on September 25, 1982.

Present were: Vice-President Bill Martin, NØANQ; Frank Bruner, KØSST; Mitch Gagne, NØAZF; Jim Sanford, NØAIH; Fred Genovesi, KAØKDJ; Ray Fink, WDØGIL; and guest John Gebuhr, WBØCMC.

The meeting was called to order at 13:00 hours.

The deterioration of the 34/94 repeater was discussed at length and the decision was made to replace 600 feet of hard line and add a new receiver section to the machine. Costs were estimated at around \$3,000.00, including all fittings.

It was moved and seconded and passed unanimously to approve the expenditure.

The meeting was then adjourned to watch the tragic loss to Penn State

Submitted by:
Bill Martin, N0ANQ
Vice-President

MINUTES OF THE BOARD OF TRUSTEES MEETING held on November 9, 1982, at the Blue Cross/Blue Shield Building, Omaha, Nebraska.

Present were: President, Walt Brown, KA0DMB; Vice President, Bill Martin, N0ANQ; Mitch Gagne, N0AZF; Fred Genovesi, KA0KDJ; Ray Fink, WD0GIL; Secretary Lysle Renne, N0CKH.

The meeting was brought to order at 19:30 hours.

Minutes of the October 5, 1982, Board Meeting were approved as printed in the November Ham-Hum.

The Board accepted the resignation, effective December 31, 1982, of Lysle Renne.

It was moved and seconded that the Board table discussion of an approach to the Club by the Jewish Community Center until it could be considered by the 1983 Board of Trustees.

The meeting was adjourned at 20:45 hours.

Respectfully submitted,
Lysle Renne, N0CKH
Secretary

RECENT CONTRIBUTORS

34/94 REPEATER

K0SST, Frank Bruner
WB0VGB, Don Eden
WA0OCZ, Herb Peterson
KA0ODN, Jeff Connors
WB0YAM, Don Sudduth
W0GFQ, Leo Meyerson
WA0OMB, Tex Pedigo
K0EMC, Jim Newland
WB0QGV, Jim Peterson

40/00 REPEATER

KB0YJ, Jerry Steiner
KA0ODN, Jeff Connors
W0GFQ, Leo Meyerson
K0EMC, Jim Newland
WB0QGV, Jim Peterson

22/82 REPEATER

WB0YAM, Don Sudduth
W0GFQ, Leo Meyerson

DX ANYONE?

Now that the summer doldrums are past and winter is fast approaching, it's time to put another log on the fire, grab your favorite refreshment, tune the rig and enjoy another season of DXing.

Again, contests are a good way to help fill your DX larder. One of the biggie DX contests has gone by (CQWW) and although a flare came near ruining the bands on Friday, Saturday saw an improvement and by Sunday, the high bands were really cooking.

The ARRL ten-meter contest is upcoming (11-12 Dec.) and in March the second biggie contest, ARRL WWDX. Don't overlook some of the smaller, localized contests sponsored by the individual countries. QST, 73 and I'm sure other magazines will give all the dates.

A number of DXpeditions are planned, with the VKØ-Heard Island expedition having the greatest interest to DXers. Planned departure for "Heard" tentatively set for early January 83, with stops (and operating) at FB8Z-Amsterdam and FB8X-Kerguelen. I've heard about the possibility of DXpedition to FOØ-Clipperton in early "83" but nothing definite, check your DX bulletins.

Here's a Quiz you might enjoy.

Are you a "LID"?

Do you:

1. Give your Ø call when the DX asks for 3's, 8's, etc.?
2. Give your 2 by 3 call when the DX is asking for 2 by 1 calls?
3. When the DX is asking for the "CE, etc. try again," pop your KAØ???
- call in?
4. Transmit your call for one minute and listen for one milisecond?
5. Break a pile-up on a rare or semi-rare DX to say "Glad to talk to you again...; it's been three days since we last had a QSO. How are you, etc., etc., etc., etc.?"
6. When you cannot break a pile-up, move 500 cycles away and call CQ?
7. In the middle of a List operation break with, "Who's the list for?"
8. On a DX net that asks, "Please, only new country contacts, no five band DXCC," get on the list when you have the country on four bands?
9. Interrupt an "International phone patch" with "I need you for a new one?"
10. Tune on the DX's frequency because you don't want to lose him?
11. When the DX is working contest style (call & signal report) talk for five minutes about your rig, shack, the WX, the dog and the color of your shorts?

Scoring:

Two or less: Not really, you're probably a newcomer, be careful.

Up to four: Definite possibilities.

Four or more: 10-4 good buddy!

Gud DXing
de KCØDB

1982 ANNUAL MEETING AK-SAR-BEN AMATEUR RADIO CLUB, INC.

In last month's issue you were informed that the Annual Meeting of the Corporation will be held at the Heartland Chapter, American Red Cross, December 10, 1982 at 7:30 p.m. We are repeating the nominees selected by the Nominating Committee.

The Club Articles of Incorporation provide for the election of a President, Vice President and four members of the Executive Council each year. The President is elected for a one-year term, with an additional term as Immediate Past President, two years total. The Vice President is elected for a one-year term. Four members are elected each year to the Executive Council with a two-year term; thus, we elect 6 members and have 5 remaining on the board. The nominees selected by the Nominating Committee are presented at the Annual Meeting. Additional nominations will be requested from the floor and may be made by any member at the appropriate time.

The procedure will be as follows:

First, the nominations and voting for a President.

When the ballots are counted and the President is elected, we proceed to

Second, the nominations and voting for a Vice President.

When the ballots are counted and Vice President is elected, we proceed to

Third, the nominations and voting for no more than four members of the Executive Council. When the ballots are counted and the 4 members of the Executive Council are elected, the election is over.

Should any present member of the remaining Executive Council be elected to the office of President or Vice President, it will create a vacancy on the Board. The new Board, as their first order of business of the new year, select a member to fill the vacancy and present that selection to the next meeting of the members for approval.

The President, the Vice President, the Immediate Past President and the eight members of the Executive Council make up the Board of Trustees. This new Board elects from its own members the Secretary and the Treasurer to serve as such for one year.

The nominees are as follows:

For President

William H. Martin, NØANQ

Age: 40

Address: 4517 N. 61st Street, Omaha

Phone: 451-4988

Employment: Blue Cross/Blue Shield

Licensed: 1976

Hobbies: Radio, computers, photography, camping, Boy Scouts

For Vice President

David B. Hamilton, NØCLW

Age: 32
Address: 4805 N. 107th Street, Omaha
Phone: 493-1390
Employment: Amato Color
Wife: Sandra (NØCLQ)
Licensed: 1977
Hobbies: Radio, hunting, archery, gun collecting

For Executive Council

Marlene A. Jugel

Address: 8014 Taylor Circle, Omaha
Phone: 572-9491
Employment: Homemaker
Husband: Richard D. (KØDG)
Children: Lisa (KAØBAA), Lynn
Hobbies: Crafts, reading

Vern J. Wirka, WBØGQM

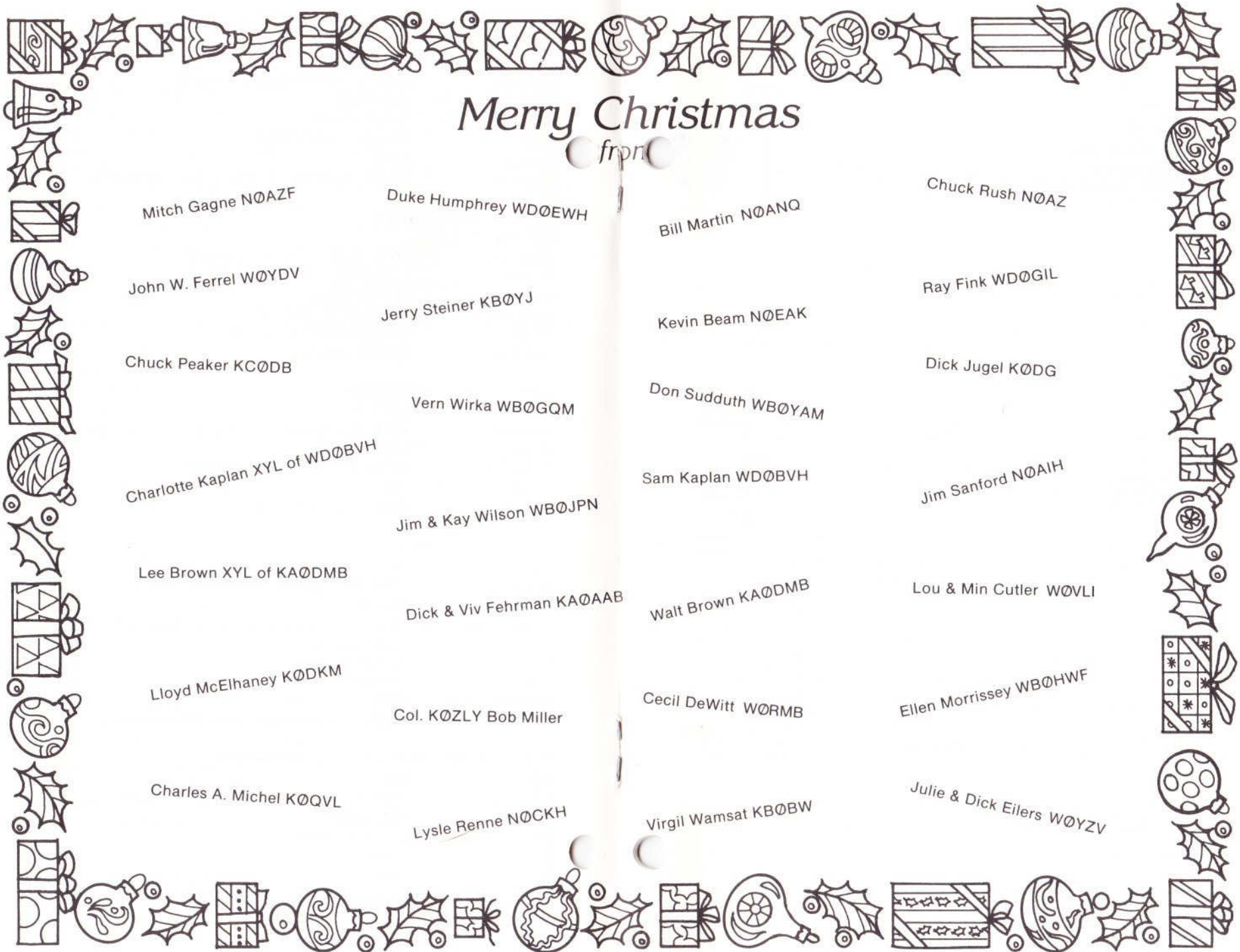
Age: 29
Address: 4606 California, Omaha, (RR Cedar Bluffs)
Phone: 556-3638
Employment: KFAB Broadcast Engineer
Licensed: 1971
Hobbies: Radio, photography

Brian Zdan, KMØY

Age: 28
Address: 4817 Douglas, Omaha
Phone: 553-2610
Employment: Attorney, Omaha National Bank, Estate & Trust Division
Wife: Sandra
Child: Warren
Licensed: 1969
Hobbies: Radio, amateur printing, photography

William A. (Duke) Humphrey, WDØEWH

Age: 39
Address: 2859 Crown Point Avenue, Omaha
Phone: 455-5402
Employment: City of Omaha
Wife: Linda
Children: Curt
Hobbies: Radio, water-skiing, camping



Merry Christmas from

Mitch Gagne NØAZF

Duke Humphrey WDØEWH

Bill Martin NØANQ

Chuck Rush NØAZ

John W. Ferrel WØYDV

Jerry Steiner KBØYJ

Kevin Beam NØEAK

Ray Fink WDØGIL

Chuck Peaker KCØDB

Vern Wirka WBØGQM

Don Sudduth WBØYAM

Dick Jugel KØDG

Charlotte Kaplan XYL of WDØBVH

Jim & Kay Wilson WBØJPN

Sam Kaplan WDØBVH

Jim Sanford NØAIH

Lee Brown XYL of KAØDMB

Dick & Viv Fehrman KAØAAB

Walt Brown KAØDMB

Lou & Min Cutler WØVLI

Lloyd McElhaney KØDKM

Col. KØZLY Bob Miller

Cecil DeWitt WØRMB

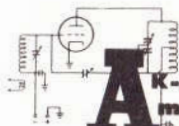
Ellen Morrissey WBØHWF

Charles A. Michel KØQVL

Lysle Renne NØCKH

Virgil Wamsat KBØBW

Julie & Dick Eilers WØYZV



A K-SAR-BEN
Amateur
RADIO CLUB, INC.
POST OFFICE BOX 291 - OMAHA, NEBRASKA 68102



October 20, 1982

Amateur Radio Station KAØNHU
MSgt. Robert P. Wozniak
3442 McConnell
Omaha, Nebraska 68132

Dear Sir,

In response to your request for assistance in eliminating your RFI problem, an investigation of your station installation and operation was made on October 17, 1982.

The complaint, filed with the base frequency manager, by your neighbor Mr. Mann, stated that your amateur radio station caused interference to their 'auto-dial-type' telephone set. Discrepancy reports by the telephone company serviceman showed that this type of telephone has a history of susceptibility to RF interference, and is therefore unable to receive FCC type-acceptance at this time. In short, the design of this type of telephone leaves it vulnerable to outside signals, consequently, the interfering signal is blamed when in fact the problem is one inherent in the telephone set design.

Our findings were conveyed to TSgt. Phillips and his staff in a phone conversation, and with which they concurred, that this problem is the fault of the telephone set and should not cause you to be denied to maintain and operate your FCC licensed Amateur Radio Station. The results of this investigation have shown beyond a reasonable doubt, that the radio equipment in question is clean of unwanted and/or spurious emissions, and that the installation of this equipment has been made in compliance of good electronics practices.

It is my understanding that this matter has now been resolved and should not pose any additional problems to you. Should our assistance be necessary in the future, please do not hesitate to contact us.

Sincerely,

Frank M. Wolczak
Frank M. Wolczak
Chief, RFI Investigations Team

FCC**Sharon Scott****FCC****PUBLIC SERVICE REPRESENTATIVE**

8800 East 63rd Street
Room 320
Kansas City, MO 64133
(816-926-5111)
11-17-82

Dear Mr. Wolczak,

This is in reply to your letter concerning interference to an auto-dial-type telephone set.

I appreciate the information you sent me concerning this problem and the results of the tests you made. Interference committees and investigative groups, such as yours, are needed, and will be needed more in the future, with the use of radio increasing, and the staffing of the Commission being reduced.

I am enclosing the new schedule for 1983 for testing in the Kansas City, Mo field office and the dates of the Omaha, exams. Please note the changes in times of code tests, and the change of applications received in the office date for field exams. Applications for the January exams in Omaha, should be mailed by Dec 15.

Again, thank you for your help and letter.

Sincerely,

Sharon Scott
Sharon Scott

PS: MSGT WOLZAK and me a copy of your findings - GREAT!!

FEDERAL COMMUNICATIONS COMMISSION
BRYWOOD OFFICE TOWER, ROOM 320
8800 EAST 63RD STREET
KANSAS CITY, MISSOURI 64133
(816) 926-5111

1983 COMMERCIAL AND AMATEUR EXAMINATION SCHEDULE
EXAMINATIONS AT KANSAS CITY, MO OFFICE

Effective January 1, 1983 all examinations in the Kansas City, Mo office will be given on the **FIRST TUESDAY OF EACH MONTH**. NO APPOINTMENT IS NECESSARY. Amateur and Commercial exams will be given on the same day with the following schedule:

AMATEUR NOT REQUIRING CODE - 8:15 AM
20 WPM CODE - 8:15 AM
13 WPM CODE - 9:00 AM
5 WPM CODE - 10:30 AM

COMMERCIAL RADIOTELEPHONE - 11:00 AM

COMMERCIAL RADIOTELEGRAPH - ALL radiotelegraph exams are conducted in the KC office. None are given at the remote field sites.

FIELD EXAMINATION DATES

Des Moines, IA - March 23 24, 1983 September 14 15, 1983	St. Louis, MO - February 23 24, 1983 June 15 16, 1983 October 19 20, 1983
Omaha, NE - January 12 13, 1983 July 13 14, 1983	Wichita, KS - April 13 14, 1983 November 16 17, 1983

All exam dates are subject to change and may be held on one or more of the indicated days. Specific dates will be determined 2 weeks prior to the trip.

Each exam point gives both Commercial and Amateur examinations.

Application forms for the field must be received in the Kansas City office **AT LEAST 3 WEEKS PRIOR TO THE FIRST EXAM DAY**.

Use Form 756 for Commercial License Examination and Form 610 for Amateur Examinations. There is no charge for any license or exam at this time.

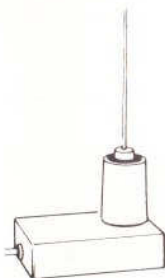
Applicants for field exams will be notified of the place, date, and time of the examination, approximately one week before the exam date. Examinations are by **APPOINTMENT ONLY**. Persons without an appointment will not be admitted.

Calculators may be used, but will be checked by the examiner.

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.



Gutter Clamp

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.

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Council Bluffs, IA
(712) 323-0142

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

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

Aksarben Amateur Radio Club
P. O. Box 291
Omaha, NE 68101

As Personal Representative for my late brother's estate (Tom Bake) I have his ham radio equipment for sale.

Attached is a list of the items for sale. We have advertised with the Lincoln club & wondered if we could get further publicity thru your club. If you have a newsletter where we could advertise some or all the attached items, I would appreciate it very much.

If you have any questions, please contact me.

Thank you,
Frank Bake
611 So. 33rd
Lincoln, NE 68510
Phone: 476-1635

ESTATE: TOM BAKE — Contact Frank Bake, (402) 476-1635, evenings, from 6:30 on. Revised 10/4/82

1. Electro Voice Mic, model 417, old - \$10.00
2. ATR-6800-Microlog Corp., with AFSK, Tape aud/aux, Video, Keying, \$2,000 RS 232 connections.
3. IDS 445 Paper Tiger Computer Impact Printer - \$500
4. Sanyo - VM 4209 120 V ac TV set.
5. Stabline CR 7105 Computer Regulator (like new) - \$200
6. Type 535 Oscilloscope, dual trace - \$200.00
7. Collins KWM 380 Pro Mark, HF transceiver 160-10 meters, 1 yr. old - \$3,000
8. Johnson-Audio Amplifier, 10 watts, old - \$5.00
9. Collins 32s-3 Transmitter
10. Collins 75s3B Receiver
11. Collins 516F-2 Power Supply
12. Coax, Dipole and misc. wire - Make offer
13. Kenwood DM-81 Dip Meter - \$80.00
14. I-Com-IC 215 2 meter FM with touch tone pad mic. - \$100.
15. DC Power Supply - Advanced Schools 12v, 9v, 6v, or 4.5v - \$20.00
16. NYE Viking - antenna tuner, 1000 watts - \$150
17. Box of hookup wire, lots of different sizes & types - Make offer
18. (4) 400 tubes - Make offer
19. (2) 230v 16 watt BT 3A2 Fans - \$5.00 each
20. Black & White TV kit, needs work - Make offer
21. Quantity of aluminum plates - make offer
22. Misc. tubes - make offer
23. HDBX 40 Heavy Duty Tower - \$175
24. 2 meter base station antenna - make offer
25. Homebrew 5 element Quad - make offer.
26. Viking kilowatt amp, just reworked - make offer
27. Swan 100mx SSB transceiver - \$100.00 (not working)

RB Associates

R. H. BRENNEMAN

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ENGINEERING SERVICES
(712) 323-1390

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496-0920

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ANNOUNCING 1983 AK-SAR-BEN AMATEUR RADIO CLUB

CODE AND THEORY CLASSES

Where: Grace College of the Bible
1515 South 10th Street
Omaha, Nebraska

When: Starting Thursday, January 13,
7:30 p.m.

Running subsequently for 15 weeks

CLASSES

Novice and General

Suggested material for all classes:

AMECO Amateur Radio Theory Course
AMECO Q & A Manual
ARRL License Manual

Classes are Free

Bob Lockwood WAØDHU

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: Dentron, GLA 1000-B Amplifier. One year old. Less than 50 hrs. on finals. Ten meter conversion installed. Chuck Peaker KCØDB, 347-6945, after 5:00 p.m. weekdays.
- FOR SALE: Old issues of "Popular Electronics." Publication has been replaced by "Popular Computing." Call Charlie KØQVL, 391-3782.
- FOR SALE: Wilson System-One 4 ELE Triband YAGI. Excellent, \$150. Heathkit SB 300 w/CW Filter, \$110. Tom Vavra WB8ZRL, 734-6451.
- WANTED: General coverage or Ham bands only Rcvr. Bernie WBØEYT, 731-0128.
- FOR SALE: Kenwood TR-3500, UHF Handi-Talkie. New, never used. Dave Smith K3CRF, 291-1436.

NEW

Digital DX-terity...



General coverage, Superior dynamic range, 2 VFO's, 8 memories, Scan, Notch... COMPACT! TS-430S

The TS-430S combines the ultimate in compact styling with advanced circuit design and performance. An all solid-state SSB, CW, and AM transceiver, with FM optional, covering the 160-10 meter Amateur bands, it also incorporates a 150 kHz-30 MHz general coverage receiver having a superior dynamic range, dual digital VFO's, 8 memories, memory scan, programmable band scan, IF shift, notch filter, all-mode squelch, and built-in speech processor.

TS-430S FEATURES:

- **160-10 meter operation, with general coverage receiver**
With 160-10 meter Amateur band coverage, including WARC 30, 17, and 12 meter bands, it also features a 150 kHz-30 MHz general coverage receiver. Innovative UP-conversion digital PLL circuit, for superior frequency stability and accuracy. UP/DOWN band switches for Amateur bands or 1 MHz steps across entire 150 kHz-30 MHz range. Two digital VFO's continuously tuneable from band to band. Band information output on rear panel.
- **USB, LSB, CW, AM, with optional FM**
Operates on USB, LSB, CW, and AM, with optional FM, internally installed. AGC time constant automatically selected by mode.
- **Compact, lightweight design**
Measures only 10-5/8 (270) W x 3-3/4 (96) H x 10-7/8 (275) D, inches (mm), weighs only 14.3 lbs. (6.5 kg).
- **Superior receiver dynamic range**
Use of 2SK125 junction-type FET's in the Dyna Mix high sensitivity, balanced, direct mixer circuit provides superior dynamic range.
- **10-Hz step dual digital VFO's**
10-Hz step dual digital VFO's operate independently, include band and mode information. Different band and mode cross operation possible. Dial torque adjustable, STEP switch for tuning in 10-Hz or 100-Hz steps. A-B switch quickly shifts "B" VFO

to the same frequency and mode as "A" VFO, or vice-versa. VFO LOCK switch provided. RIT control tunes VFO or memory. UP/DOWN manual scan possible using optional microphone.

- **Eight memories store frequency, mode, and band data**
Memories store frequency, mode, and band data. Eighth memory stores receive and transmit frequencies independently. M.CH switch for operation of memory as independent VFO, or fixed frequency.
- **Lithium battery memory back-up**
Estimated five-year life.
- **Memory scan**
Scans memories in which data is stored.
- **Programmable automatic band scan**
Scans programmed band width. Scan speed adjustable. HOLD switch interrupts band or memory scan.
- **IF shift circuit for minimum QRM.**
IF passband may be moved to place interfering signals outside the passband, for best interference rejection.
- **Tunable notch filter built-in**
Deep, sharp, tuneable, audio notch filter.
- **Narrow-wide filter selection**
NAR WIDE switch for IF filter selection on SSB, CW, or AM, when optional filters are installed. (2.4 kHz IF filter built in.)
- **Speech processor built-in**
Improves intelligibility, increases average "talk power".
- **Fluorescent tube digital display**
Indicates frequency to 100 Hz (10 Hz modifiable).

- **All solid-state technology**
Input rated 250 W PEP on SSB, 200 W DC or CW, 120 W on FM (optional), 60 W on AM. Built-in cooling fan, multi-circuit final protection. Operates on 12 VDC, or 120 VAC, or 220/240 VAC with optional PS-430 AC power supply.

- **All-mode squelch circuit, built-in**
- **Noise blanker, built-in**
- **RF attenuator (20 dB)**
- **Vox circuit, plus semi break-in with side-tone**

Optional accessories:

- PS-430 compact AC power supply.
- PS-30 or KPS-21 AC power supplies.
- SP-430 external speaker.
- MB-430 mobile mounting bracket.
- AT-130 compact antenna tuner, 80-10 m incl. WARC.
- AT-230 base antenna tuner, 160-10 m incl. WARC.
- FM-430 FM unit.
- YK-88C (500 Hz) or YK-88CN (270 Hz) CW filters.
- YK-88SN (1.8 kHz) narrow SSB filter.
- YK-88A (6 kHz) AM filter.
- MC-42S UP/DOWN band microphone.
- MC-60A deluxe desk microphone, UP/DOWN switch.

More information on the TS-430S is available from all authorized dealers of Tri-Kenwood Communications, 111 West Walnut Street, Compton, California 90220.

KENWOOD

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P.O. BOX 864
COUNCIL BLUFFS, IOWA 51502-0864

PHONE: (712) 371-1212



CLOSED DEC. 19 THROUGH
JAN. 4, WILL RE-OPEN ON JAN. 5, 1983

Have a
merry
Christmas