



HAM HUM

Published by

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



March 1977

Vol. XXVII
No. 3

NEXT MEETING

WHEN: FRIDAY, MARCH 11, 1977

TIME: 7:30 P.M.

WHERE: C.W.A. LOCAL 7400
1920 South 44th Street
Omaha, Nebraska

PROGRAM: WEATHER — the topic of many news stories so far in 1977 is our concern this month as we prepare for the approaching season of possible severe winds and hail.

The National Weather Service and Offutt Air Force Base will provide our speakers, Mr. James Zoller and Major Don Bahr. Important information relating directly to our community will be discussed. Learn how you can help!

* * *

VISITORS WELCOME — REFRESHMENTS — EYEBALL QSOs

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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Annual Dues:
 Regular member\$7.50
 Regular member and XYL 9.00
 Student member 3.50
 (due and payable each Jan. 1)

Published by
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Deadline for April issue is March 18th

New member initiation fee\$1.00
Quarterly for balance of year:
 Regular member\$2.00
 Regular member and XYL 2.45
 Student member 1.00

AUCTION REPORT

The situation concerning the auction is very much up in the air. For the past two years we have held the auction at the Holiday Inn at 72nd and Grover. It was again scheduled for there until it was known that the rental would be \$250.00. This represented a five-fold increase over the previous year. If the Club were to pay this rental, they would operate the auction at a net loss. This would not be worth holding the event.

The Board of Trustees has set a maximum rental of \$75.00 on the hall. To date we have not been able to find a place large enough, with good access, for the full day Sunday for that amount. That brings me to the reason for the report. Unless we can find a

place (one of you may know of one) for that kind of money, then I am afraid the auction will become a victim of inflation and fall by the wayside. Financial resources must be found either through admission or commission to pay the toll.

Unless the rental limit set by the Board can be met, the auction will be set completely aside and possibly be replaced by a flea market sometime during the summer. Unfortunately they are attended by only a few, while the auction used to be attended by hundreds.

If you have any idea how the auction can be saved, please contact me or one of the Board members.

Mike McAllister, WBØDXA

THE PREZ SEZ

The attendance at the February meeting SRO as those of you who got there just a little late are well aware of. We had in excess of 100 members and guests. The program SCIENCE IS NOT MAGIC proved to be very interesting to those of us who had not seen it before and just as interesting to those who were watching for the second time. I wonder if Doni, WBØQMW, has figured out how to ring the bell yet! And Gerry, WBØPPF, has a Jr. Op running around the QTH with his magic light.

Jim, WBØQGV, is doing a fine job on selecting programs for our meetings and has some very interesting things to come at future meetings. In view of the increased attendance of the members, we are looking for a suitable meeting place which we hope will be centrally located and have room for all of us to sit down.

In this issue of HAM HUM you will find an article by Irene, WBØMPC, slanted towards our lady amateurs. This will be a monthly article, so ladies get your ideas and thoughts to Irene. We invite each of you to send in articles if you are so inclined. We also hope to have our "Shack of the Month" back soon. Jon, WBØGQT, may be calling on you some day soon and want to take some pictures of your shack, so hope you are the lucky one next month.

Let us also start thinking about Old Day and make plans to help out—operate or just come out and watch the rest of us work. Any of you who are interested should contact Lloyd, KØDKM.

I wish to thank all of you for your kindnesses and expressions of sympathy, the flowers, and donations to the cancer fund in the recent loss of my wife, Phyllis. It is truly a pleasure to know each of you and I am very grateful that I have the friends of our Amateur Society and our Club.

73's CU Next Meeting

Bob, WBØLYU

WHO ARE THEY?

Sure, amateur radio is just another hobby. Certainly you enjoy it, the talking, getting together with other hams, constructing your pet projects.

But is that all there is to it? Aren't there 5 good reasons why your amateur ticket exists? How long has it been since you helped a budding novice, drove miles for a simulated emergency, or furthered amateur radio in some way? Remember who Armond Noble is?

Oftentimes comments are heard referring to club activities as conducted by them, or "they should....." In order to be prepared for emergencies or contingencies pertinent to club activities, the new member application form is being modified and the membership will be surveyed for operating capabilities, various emergency gear, and talent.

A collection of facts about us, as a club, will help tell where our strong and weak points are. Remember, this is a non-profit, volunteer organization. The club activities are only as good as you. They are you!

de WBØQGV

JANUARY BOARD OF TRUSTEES MEETING

The January Board meeting was held on the 18th at the Red Cross Chapter House. The following Board members were present: WBØLYU, WBØQGV, WBØCMC, WBØNGD, WBØPGS, WBØJPN, WBØGQT, WAØGEH, and KØPKR. The following additional guests were present: KØJIU, WØWRT, WAØYUN, and Mr. Gene Young of the Red Cross.

As was announced last month, the January Board meeting was devoted almost entirely to discussion of the Club Repeater System, particularly the required move of the 34-94 transmitter to some new location. This is a good point to bring out a little known piece of information. We all know that the 34 receiver is located on top of the Woodmen Tower, but few of us are aware of how it got there. Going back through the old records, it was found that the Red Cross was responsible for obtaining the site for the Club. At the request of the Repeater Committee, Gene Young of the Red Cross was asked to investigate the original agreement drawn between the Alfred G. Thomsen Company (who represent the Woodmen Tower building management) and the Red Cross. The thought had obviously crossed our minds that possibly we could go to a single site repeater located at the Woodmen Tower. Mr. Young reported his findings to the Board and they were unfortunately negative. It turns out that the original agreement was quite specific and stated that it covered space for an antenna and receiver only. The entire roof and all space are now covered by lease

agreements to two commercial companies. Our receiver and antenna are the only non-commercial equipment presently on the roof and are allowed to remain there due to the original agreement. Further checking had indicated that while one of the commercial interests would be willing to allow us to place a transmitter on the roof, and that the Thomsen Company had no objection, we would be required to pay the standard lease fee which would increase the monthly cost of the 34-94 repeater about 10 times. Obviously this closes the door on any further discussion of a single site system at the Woodmen Tower.

The Board then asked Mr. Young if he could give any further information regarding the impending move of the Red Cross out of their present building. His answer was encouraging in that it will probably buy us some more time. The Red Cross apparently had secured options on two buildings and both deals have now fallen through. When asked if he could give the Board any estimate of the minimum amount of time that we would have to work with, Mr. Young stated that he could not give an answer because new plans would have to be made and several options considered, including the possibility of a new building at the present site. Gene stated that whatever direction the Red Cross will take, the Club will not be put in the position of being told that the transmitter would have to be moved in a matter of a few days. The Board of Trustees wishes to thank Gene Young for his efforts on behalf of the Club and the Membership can be assured that the Repeater Committee will be in touch with Gene

during the coming months, and will have ample notice of what steps will be taken, and when.

As an alternative, the Board had thought of other possible transmitter locations. Many new members may not be aware that at one time, the transmitter was located at 38th & Cuming Streets on what is now the Eppley Care Center. Antenna elevation and linking telephone line charges are almost identical to the Red Cross location. At the request of the Board, member John Snyder, W0WRT, who is connected with the Eppley Center through his vocation, was asked to attend the January meeting. John stated that the site might again become a possibility. John agreed to work with the Repeater Committee to investigate this further. Hopefully by the time you read this, initial contacts will have already been made.

Discussion then turned to the Council Bluffs Repeater System. Again, as new members may not know, the Club does not own any of the equipment used within the 22-82 system. All equipment is owned by member Leo Connolly, K0JIU. The Club has an agreement to support the operation of the system which basically means covering the power bills and telephone line charges. Most people don't know just how complex the system really is. For instance, did you know that 34-94 can be controlled through 22-82? That there are 3 telephone lines involved? That it interfaced with two different 450 MHz systems? that there will be a satellite 22 receiver in west Omaha in the next few months? And that the 10-70 teletype repeater is also a part of the total system? Well, if you

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didn't, don't feel bad, most of the Board didn't either. Considering what this system does for all of us, it deserves our support (which it is not getting). Incidentally, Leo put his foot in it, and promised the Board that the 10-70 teletype repeater would be up again sometime in March, at the latest. All you RTTY nuts can get ready.

The long meeting was adjourned at 10:30 P.M. While nothing definite was established on the move of the 94 transmitter, much new information was presented and we apparently will have sufficient planning time. Any member having any comments or suggestions is still invited to contact any member of the Board or of the Repeater Committee. Who knows? Maybe there is somebody out there who can get us on a TV tower???

Tom, K0PQR
Club Secretary

WHATSA MATTA POOPSI

(To be read while listening to the Washington Post March)

You say your vertical is putting out elliptical or horizontally polarized signals.....You say your random looks like it's been attacked by a 40 ton wire wrap machine.....You say the last time you shinneyed out your dipole the world inverted and went black.....You say your beam looks like a vulture about to land on the house and devour the owner.....You say your quad gives the impression of being 3 sheets in the wind.....Well Poopsi, hang in there.....your time is coming - spring is here and now is the moment we've all been waiting for. So get out there and fix those radiators of international goodwill.

LADIES ONLY

JOY! JOY! Our new and lovable PRESIDENT OF AKSARBEN AMATEUR RADIO CLUB, INC., BOB, WBØLYU, wants to see more action from us YL's and XYL's! How LUCKY can I be? I have been chosen to write a column. This is thrilling — like hearing from GETTYSBURG!

Along these same lines, in visiting with Mr. Kite of the FCC, Washington, the other day, he informed me that there is a VAST NEED of MANY, MANY more women in all facets of Amateur Radio. At the present time there are about 200 YL's in our state and about 16,000 in the U.S. The field is wide open and let's fill those needs!! Besides — gals make capable, understanding and interesting operators!

Any new department needs help, so will appreciate all thoughts and ideas to keep this old column running PEP! Now, as to my goals and aims — FIRST AND FOREMOST — to help all of you gals become more interested and involved in all endeavors of AMATEUR RADIO.

We need more beginners — this includes those of you who have been wondering down through the years how to get started in radio — and those of you who have not. In the future we will have interesting articles or meetings of the "GET UP AND GO" type to help you along. In the meantime, get the OM to show you how to use his RECEIVER and be a WL (Short Wave Listener). This, incidentally, is one of the largest organized efforts that we have in Amateur Radio — and one peachy way to get started in our hobby! (Gets you out of housework to boot!)

Will also feature articles on NOVICES and all of their hopes and aspirations — OH! What Thrilling Days! Starting from SCRATCH — NO PREMIX! Hi!

Even articles for the exalted GENERALS, ADVANCED AND EXTRA CLASS.

As you can readily see — the above frequencies are quite crowded, but knowing the caliber of you fine gals, I know that lots of help will be forthcoming. Jump in and get your feet wet! SEND ME YOUR LETTERS AND IDEAS!

88's

Irene, WBØMPC

THE ANATOMY OF A LETTER

A survey has been conducted on one letter of the Zero QSL Bureau which uncovered some well-known, little known facts. On January fifteenth a total of 248 cards were passed to the "Y" suffix sorter. Several envelopes also were received with the usual SASE's and additional postage in some cases, along with various comments, some good and some better. Of these, 4 new envelopes were received to claim a total of 27 cards out of the holding file. We feel that this is most likely the results of our several efforts to contact people with cards resting in the file.

After the sorting process and matching cards to envelopes it was found that in two cases insufficient postage due to increased postal rates had to be reckoned with. In one case, 3 cents was added to a 10 cent envelope and in the other 5 cents was added to an envelope with 8 cents

postage. One case of an envelope being returned to sender (bad address) was remailed to a different address per the 1977 call book. It appears that this station is currently active because there were 5 additional cards in this most recent reception. Incidentally, the returned envelope was a last envelope so a new envelope was initiated showing 13 cents due the bureau.

Of the 248 cards received, a total of 206 could be sent out. The 206 cards resulted in 28 envelopes being mailed. Nine envelopes were put in the holding status because of insufficient cards to warrant mailing at this time in consideration of the small number or the high postage. This leaves 42 cards to be dated and placed in the holding file for one year unless envelopes are received at some future date.

There were as of January 1, 1977, 87 calls with one or more QSL cards in holding due to no envelopes on file. This amounts to 475 cards in the file. The 27 removed and 42 added with this sorting makes an increased file to 490 cards. The 87 calls with unclaimed cards on file increased to 101 with this sorting, since 15 of the added calls only had 1 card each. Of the 18 added calls with cards and no envelopes, 9 are not in the 1977 call book. Since at a time like this the call book is quite up to date, and considering the normal lag time of cards, it is reasonable to believe that these 9 are mistakes either in receiving or copying the call or perhaps in some cases, bootleggers using unassigned calls.

Eight calls with 10 or more cards account for 234 cards. Generally these people know their cards are here, as special efforts have been extended to

inform them. It is difficult to evaluate various efforts extended; however, an alphabetical list was made by town and state of these calls. As other cards are mailed to these like locations, a list of calls and the number of cards being held is included on the back of the inventory sheet being furnished to show envelopes and stamps on file. We get the feeling this is working fairly well for the larger communities based on responses. Nearly all personal contacts made by this writer have revealed a lack of understanding of the function of the Bureau in spite of the various articles published on the subject. Suffix letter "Y" has no one at this time on record who does not want their cards or has indicated their cards be disposed of in other than the usual manner. AR 73

"Y" Suffix Sorter
Zero QSL Bureau

CURIOUS ABOUT THE REPEATER?

As it seems to happen from time to time, there appears to be a large number of new users on 34-94. Most newcomers are aware of where the repeater is, who owns it, and the basics of how it operates. Beyond that, little information is available for the newcomer. In an effort to provide this information, I will now attempt to explain some of the "hidden" facts.

They say the best place to start is at the beginning, so let me trace some history. Credit for the original 34-94 machine goes to member and past President, Jim Droege, WØYCP. Jim built the original repeater during the 60's, and it was put on the air solely as

an individual effort. It was located at 38th & Cuming on what was at that time, the Nebraska Methodist Hospital. At various times over the years, it has operated in a variety of locations and different configurations. Its power as varied from as little as 10 watts, to as much as 500. That was in the days before the FCC decided to regulate amateur repeaters. Jim eventually sold the repeater to the Club.

The trustee of the repeater license is Frank Taylor, WØGOJ, who also is the trustee of our Club call, WØEQU. Control of the repeater is accomplished via 450 MHz, with the 450 receiver located at the 94 transmitter site. Four control operators are listed on the WRØABQ license. They are KØJIU, WAØSAQ, WØWRT, and of course, WØGOJ. You may very seldom hear these stations on the repeater, but believe me, they DO HAVE control of it.

In an effort to provide better maintenance and planning for the repeater, the Club Board of Trustees, in December of 1975, appointed six members to a repeater committee. Since that time, there have been two resignations, and one new appointment. Present members are: WBØCMC, WØGOJ, WAØIWF, WBØWYB, and myself KØPQR. This committee will need some new members next year. Anyone who would like to serve is invited to contact John Gebuhr, WBØCMC, the Chairman of the repeater committee.

The only consideration that a volunteer should think about, is that he be available to respond to the repeater in a reasonable amount of time upon request. And at some ridiculous hours. I don't want to think

how many times I've been there at 1 or 2 A.M.

Now, to the hardware. The receiver is a combination of two Motorola units. This can best be explained by stating that the receiver front end is from one strip, and the IF chain is from another. Parts were taken from an MTS strip and a MOTRAC unit. (Sorry, I don't know which is where). It is 100% solid state and exhibits excellent test bench performance. It was put together several years ago by a group of FM oldtimers, including WØGOJ, WØYCP, KØJIU, and others. I know I'm missing someone here, and I apologize for the omission. The receiver antenna is a recent donation from member WBØMSN. It is a commercial Phelps Dodge Station Master fiberglass type, commonly called a Comprod. Does anybody know where that name came from? I don't.

The transmitter is an old 60 watt Motorola strip, tube type. Nothing special here. Present output power is about 50 watts. This has been done intentionally to provide longer tube life. Have you priced a 5894 lately? The transmitter antenna is a commercial grade of 4 pole type, manufactured by Hy-Gain. This is not to be confused with the amateur grade of 4 or "J" pole antenna that you would buy at your local ham dealer. All feedline at both transmitter and receiver locations is Heliac. The ID'er and all control interface circuits are homebrew and solid state. There were so many people involved in the construction of this equipment, I won't attempt to name them all.

One other thing I have not mentioned is the cavities. I know.

you're saying to yourself "why are there cavities on a split site repeater?" The answer is simple. The purpose of the transmitter cavity is to eliminate excessive white noise from your receiver in case you happen to be mobile somewhere near 39th & Dewey Sts., and want to work some other frequency than 34-94. The receiver cavity is there to eliminate the 11 VHF high band transmitters on the roof of the Woodmen Tower from getting into it and causing intermod.

Club members who attended the November meeting were treated to the announcement that the repeater committee has been informed that the Red Cross will be moving sometime during 1977. Obviously, the transmitter will have to be moved. Now, the question is, where do we put it? And, how much will it cost? Several choices are available. We could move the transmitter to another location, leaving the machine split-site. If we do this, where can we go and not lose any performance or put the cost of the connecting phone line out of reach? We could go single site at the Woodmen Tower. This would require obtaining an 8 cavity duplexer, at the minimum. Cost will weigh heavily on this one. Or, we could move the whole thing to some other location. Again, where? Keep in mind that there are only 7 structures in Omaha that are higher than the roof of the Woodmen. They are: the three TV towers downtown, the three TV towers on North 72nd Street, and the tower at Benson High School which already has a repeater on it. Do we have a member who has great influence at one of the TV stations? This is a subject that is going to be cussed and discussed in the

next few months. Any and all suggestions and comments will be welcomed by the Repeater Committee.

This article was intended to inform the newcomer to Omaha VHF, but even if you're an oldtimer on 2 meters I hope you will ponder some of the points I've tried to raise.

Concerning all area repeaters, they are paid for by donations from the users. Fortunately, all are very reliable and require little maintenance and as a result have, to date, not run too much in the red. (34/94 is the only one in the black at present.) It is the consensus of the Board at this time that Club funds not be used, unless absolutely necessary, for repeater support as H.F. Buffs gain nothing by it. 34/94 is the only repeater owned, operated and supported wholly by the Club so other repeaters have to find their own financing. The Club will, however, transfer funds to any area repeater so if one wishes to write a single check, he can indicate what parts go to which repeater. Past guidelines have been 50¢ a month or \$1.00 if one uses the autopatch. More if you wish, or less. Any and all donations are welcome and may be sent to Ak-Sar-Ben Amateur Radio Club, Inc., P. O. Box 291, Omaha, NE 68101.

KØPQR,

Repeater Committee Reporter

(Ed. Note: Thanks, Tom, for the article. I am not a heavy user personally but I have been repeater capable since WØYCP handled the machine as a personal project. I am appreciative of the tremendous time, effort and expertise that has gone into

maintaining the 34/94 machine and I am also appreciative of the other machines in the area.

If you as a user agree with me, why not pick a member of the Committee and tell him "thanks." Even if you've suggestions or criticism, I am sure they would be glad to hear from you.)

ADDITIONS TO ROSTER

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FEBRUARY 1977 BOARD OF TRUSTEES MEETING

The February Board Meeting was held on the 15th at the Red Cross Chapter House. The meeting was called to order promptly at 1930 by President Conley, WBØLYU. Board members present were: WBØLYU, WBØQGV, WAØGEH, WBØCMC, WBØNGD, WBØJPN, and KØPQR. Also in attendance was WBØDXA as Chairman of the 1977 Auction Committee.

The Treasurer's report for the month ending January 31 was read by WBØJPN. A motion and second to accept the Treasurer's report as read was unanimously carried. A motion and second to authorize the Treasurer to pay the regular monthly outstanding bills was carried. The Treasurer was also authorized by unanimous consent to forward all monies collected since December 1,

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1976 in the form of donations for the 40-00 repeater to the owner John Gebuhr, WBØCMC.

A discussion of the 1977 Club Auction was held. Committee Chairman WBØDXA reported that negotiations with the Holiday Inn had reached an impasse. Mike reported that the rental fee for the Exhibition Hall had been increased to 5 times that paid for the 1976 Auction, and now actually exceeded the total profit realized by the Club at last year's Auction. It was suggested that an admission fee of \$1.00 per person be charged to cover the cost of the hall rental. Upon strong objection from WAØGEH and KØPQR to any admission charge, the Board agreed by unanimous consent to drop any further discussion of an admission charge, and instructed the Auction Chairman to drop any further negotiations with the Holiday Inn. Several possible alternative sites were then mentioned, and WBØDXA was instructed to proceed with investigation of cost and time availability for each.

A discussion was held of possible meeting places to be used in the future. Members who have attended any of the last few regular monthly meetings are aware that the CWA Union Hall is being taxed to its limits. Meeting attendance during this past winter has been far above normal and hopefully this trend will continue throughout the coming year. Several possible meeting halls were discussed and dismissed in turn due to cost or nonavailability on the second Friday of each month. If any member is aware of a meeting hall that will comfortably hold 150 and is available

on the second Friday of each month, please contact President Conley or any member of the Board. Rental cost for a meeting hall should be minimal. The Club has been very fortunate in having facilities donated free. Hopefully this could continue, but a small rental cannot be ruled out, and is open for consideration.

President Conley announced that a meeting was scheduled for the week of the 21st, with the National Weather Service, Offutt Weather, and perhaps the Public Works Department for discussion of our future involvement during Weather watches. This will be a planning session and will also involve the Douglas County REACT group. This meeting was requested by several parties and is intended to provide better communications to all concerned. The REACT group now has a class A, 450 MHz repeater in operation, and duplicate areas of coverage are no longer needed. This does not mean that our services are no longer wanted, it means that working together, with coordination, we can provide even better service to the people who need it. Further information will be announced on the AREC net and also at the March Club meeting.

A motion was made by WBØLYU and seconded by WAØGEH, to incorporate a voluntary personal information questionnaire as a part of the Club membership application form. This form would also be used for all membership renewals. This voluntary information would include such subjects as vocational skills, other hobbies, etc. This information will be compiled by WBØQGV, and stored by computer. It will be available to any

Club member for any useful purpose. In times of emergency it will be unnecessary to question such things as, who has a four-wheel-drive vehicle, who has first aid training, who has what portable equipment, etc. Following discussion, the motion was passed unanimously. A new form for this use will be designed by WBØQGV, and hopefully will be available for use before the upcoming severe weather season.

That's all for this month. Hope to see everyone at the March meeting.

Tom Thiessen, KØPQR
Club Secretary

GOOD SUGGESTION

An appeal was made in January for suggestions for possible programs. Several have been received, and all are appreciated.

A program on Antique radio displays in conjunction with an oldtimers night has been mentioned. This will make an excellent program for early fall when we again get indoors. If you have any gear that might be available for show and tell, please come forward with it. I am looking for someone to organize this one, as it will be a big job keeping track of who will bring what, and making sure the oldtimers are in attendance. Any volunteer??

The next two meetings are expected to take place away from the C.W.A. Hall. Hopefully this will not inconvenience anyone and be a welcome break as we go into spring.

It's been said that you are what you eat. The menu of programs is yours to specify, have your cake and eat it too.

de WBØQGV

FROM THE EDITOR'S DESK

By Arnie Meyer

One evening while cruising the bands, looking for a spot to "CQ" I heard the following, "Is this frequency in use? This is WB6----." Surprised, I listened and as no one answered he began his "CQ." Now wouldn't it be great if we would all take a moment to be sure the frequency is clear. Quite often due to propagation or directional antennas, we cannot hear the other half of a QSO already in progress. Why can't we have a "Q" signal? Still, a simple "Is this frequency in use" can assure a clear QSO and eliminate a lot of QRM. I've tried it and it really works. 73's

de LERC, Burbank, CA

A Los Angeles man walked into the office of a friend recently to find him deep in thought.

"Big problem?" he asked.

"Yes," was the answer. "I'm trying to figure out whether I should leave home for work between 6:30 and 7:00 a.m. and join the rush to beat the rush; or should I leave between 7:00 and 8:00 and join the rush itself; or should I leave after 8:30 and join the rush that waited to miss the rush."

Sunshine Magazine

**Want to help?
Call us.**

Red Cross.
The Good
Neighbor.



HAM HUM SWAP

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

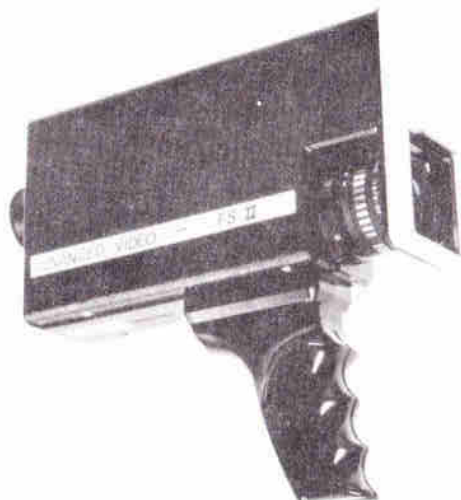
- FOR SALE: Mosley CM-1 receiver—\$125.00;
Eico 720 Xmtr—\$50.00;
Globe Scout VFO—\$35.00
Stan Swim, WBØSYG; phone 333-1946
- FOR SALE: 1 — HQ129X. Good condition. Call after 6:00 P.M.
WAØBMJ, Mac; phone 393-0432
- FOR SALE: Regency HR-212 with 9 pair crystals, DC cord and service manual — \$250.00.
Charles Michel, KØQVL, 8720 Charles St.,
Omaha, NE 68114; phone (402) 391-3782
- FOR SALE: Swan 240. A 3 band (20-40-80)
240 watt SSB radio. Excellent shape — \$120.00
Mobile Power Supply: Health HP-13 provides all voltages for many
SSB HF rigs — \$45.00
Pat Murphy, W6HXT; phone 292-2937
- FOR SALE: Galaxy 5 transceiver; Galaxy G-35A DC power supply; Galaxy
AC-35 AC power supply;
Galaxy ZMM mobile mounting bracket;
Galaxy 35C vox adapter — all for \$300.00
Yaesu FTDX100 transceiver — \$350.00
Collins MP-1 DC power supply; Collins 351D-2 mobile mount —
both of these are new in original cartons for \$150.00
Millen No. 92200 transmatch — excellent shape for \$130.00
Ron Sundsboe, WAØMQM, 6767 Wirt Street,
Omaha, NE 68104; phone 556-4914
- FOR SALE: Standard SR-C826M 2M FM Radio
Clegg FM-27B 2M FM Radio
AC Power supplies available for both
Kent Sinram, WBØBOR; phone: 571-7423
- FOR SALE: New Conar Model 224 Tube Tester. Retail \$75.95. Will sell for
\$40.00 complete with tube test data. Also IBM Model 272
Transcriber and Auto-Monitor Model HL44 by Petersen Radio Co.
(Scanner) both as is for \$15.00 ea. David Daniel, WAØSVO; phone:
734-3672.

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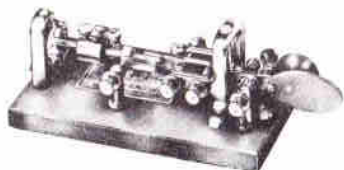


BOX #64 COUNCIL BLUFFS, IOWA 51501

The Vibroplex



Telegraph & Wireless Transmitting Machines



New SUPER DE LUXE "PRESENTATION" VIBROPLEX

The Finest Bug Ever Built! 24K Gold-Plated Base Top, Patented Jewel Movement and Super-Speed Control!

New patented adjustable main spring affords wider range of speed than ever obtained before in semi-automatic transmitting key. Beautifully designed with polished chromium precision-machined parts mounted on a 24K gold-plated base top with colorful red switch knob, finger and thumb piece. This new Super DeLuxe "Presentation" Vibroplex key affords a life-time of sending enjoyment. Harder than metal, the jewels in this key reduce friction, maintain smoother, easier operation and prolong life.

\$72.50

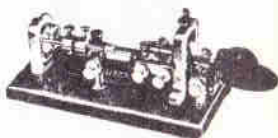
THE Improved "ORIGINAL" VIBROPLEX

Suitable for All Classes of Transmitting Work Where Speed and Perfect Morse Are Prime Essentials

This great new Vibroplex is a smooth and easy working BUG. It has won fame on land and sea for its clarity, precision and ease of manipulation. Can be slowed down to 10 words per minute or less or geared to as high rate of speed as desired. Maintains the same high quality signal at whatever speed, insuring easy reception under all conditions. Weight, 3 lbs. 8 oz.

Standard—Chromium top parts, grey base, \$43.75

DeLuxe—Chromium base and top parts, with jeweled movement. \$54.95



De Luxe Model



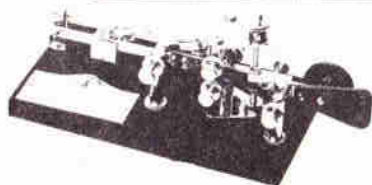
THE "LIGHTNING BUG" VIBROPLEX

High Quality Signals at All Speeds

Flat pendulum model. Weight 3 lbs. 8 oz.

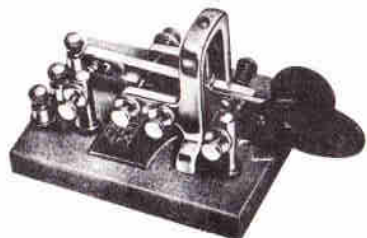
Standard—Polished Chromium top parts, grey base. \$43.75

DeLuxe—Polished Chromium base and top parts, with jeweled movement. \$54.95



THE "CHAMPION" VIBROPLEX

Weight 3 lbs. 8 oz. Without circuit closer. Standard finish only. Chromium finished top parts, with grey crystal base. \$34.95



VIBRO-KEYER (New Listing)

Over the years, we have had many requests for Vibroplex parts to be used for construction of a keying mechanism for an electronic transmitting unit. This beautiful and most efficient "Vibro-Keyer" is ideal for this job.

FEATURES OF THE "VIBRO-KEYER"

- Beautiful beige colored base, size 3 1/2" x 4 1/2", weight 2 3/4 pounds.
- Same large size contacts as furnished on Delux Vibroplex.
- Same main frame and super finished parts as Delux Vibroplex.
- Colorful red finger and thumb pieces.
- Has the same smooth and easy operating Vibroplex trunion lever.
- A real "Gem" adjustable to suit your own "taste"

\$36.50 Delux Finish \$48.50