



HAM HUM

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



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No. 12

December 1985

Holiday Greetings

ATV ON THE AIR

On about November 1, an ATV repeater went operational here in Omaha from the 866 ft. level of the Channel 6 tower at 72nd and Crown Point. It has a number of user station features that most video repeaters don't have. It has a pattern generator built in to provide an output so a user station can tune his receiver and/or antenna to it without another ham having to send video to it, or to converge his color set, or just to play with. Located about three feet to the west of the repeater is a color camera that is remotely steerable and provides a great panorama of the Omaha area. Unfortunately, it cannot see the roof of Immanuel Hospital where the nurses sun bathe in the summer as the tower is in the way. Face it guys, looking to the southwest where most of the tornados come from may not be as entertaining but is more important. Also included in the system is an auxiliary transmitter at the Channel 6 Studio which is also user accessible and has video/audio selections including color bars from the stations generator, Doppler Radar, National Weather Service Radar, colorgraphics, a black raster and three spare, unassigned a/v inputs, all of these are available on demand on a 24 hour basis. The repeater has two spare video inputs for future expansion.

The entire system took about three months to complete and was in its present configuration by the end of August. It sat on the roof of the Channel 6 Studio for a month, turned on, while I was roaming around Germany. When I returned and ran it through its paces it was exactly as I

CONTINUED ON PAGE 4

NEXT MEETING..... DECEMBER 13
RED CROSS 3838 DEWEY - OMAHA .

PREZ SEZ

Well folks you won't want to miss out on this month's meeting...we are gonna have quite a celebration for Dick Eilers. We will be honoring Dick for his 35 years as Publisher and Editor of HAM HUM. There will be plenty of eats and refreshments for all.

Lets not forget that this meeting is the annual business meeting as required by our bylaws. All paid members of record are eligible to cast one vote. Your club is a good one and your vote will assure good leadership.

The Ham of the Year award nominations are now being solicited. Please send your nominations to me by Dec. 31 1985. The award will be presented at the Jan. meeting.

Please note all mail for HAM HUM should be addressed to:

EDITOR - HAM HUM
4026 NEBRASKA AVE
OMAHA, NE. 68111

Just a note for all in

CONT...next page

MINUTES OF THE BOARD

PREZSEZ...continued

The meeting was called to order at 7:30 p.m. by the president Dave, NØCLW.

Discussed buying a printer to help in producing the HAM HUM.

Motion was made and seconded to approve an additional \$10 to buy the printer required. The printer is to be purchased from New America Technologies. Approved.

Discussed the fact that if we get three occurrences of overloading our mailbox, we will lose Box 291 for the QSL Bureau.

Discussed the insurance policy for the Club property and liability insurance.

Motion was made and seconded to give NØCLW, WØYZV and NØAIH flexibility to negotiate the cost of the property and liability insurance policy and to pay the premium. Approved.

N5DZZ wants some input for the raffle grand drawing to be held at the December general membership meeting.

Motion was made and seconded to spend up to \$325 at the discretion of NØCLQ, Sandy, for the snacks for the December meeting. Approved.

The Treasure's report for October 1985 was presented to the Board.

Motion was made and seconded that the Treasurer move \$1500 from the checking account to the money market account. Approved.

KB8TR, Jay gave a report on the survey taken on the 34/94 repeater. The survey was taken at the previous general membership meeting.

KB8TR, Jay and KØBOY, Doug demonstrated a repeater controller to the Board members.

Meeting was adjourned at 9:45 p.m.

Respectfully submitted

Virgil Wamsat, KBØBW Secretary

STOLEN EQUIPMENT

ICOM IC-25a 2mtr transceiver
W/ttp mic. S/N 175-16521

ICOM IC-2AT 2mtr handheld
W/ttp & CM-5 battery pack.
S/N 117-18478

FANON "Scanfare" Scanner
model M8-HLU. 8 channel vhf-

HI/LO/UHF. XTALS on OPD, OFD
and Irvington VFD(453.6 Mhz)
S/N 007346.

If located, please notify
Omaha Police Div.; Criminal
Investigation Bureau (402)-
444-5652. Report #RB 33219V.
Reward offered for informa-
tion leading to arrest and
conviction of individuals
involved in theft.

need of radio accessories,
Al McMillan - WØJJK has
opened another amateur
radio store in Council
Bluffs. See his ad in this
Issue.

Jim Zoller will be
honoring our club this
meeting with an award of
Excellence from the National
Weather Association located
in Temple Hills, Maryland.
This most prestigious award
was presented to Mr. Zoller
in our behalf at their
annual meeting held in
Kansas City in November.

You may have noticed
that HAM HUM has been
changing a little from month
to month as Mitch and I
figure out the best format
to use. So give us your
comments as we learn our
trade.

Jim Sanford, NØAIH has
tendered his resignation as
Section Emergency Coordin-
ator of the State of
Nebraska.

Jim has held this
position for the last two
years, and during his fine
leadership our state has
gone from near last place
in ARES participation to
Number one in the nation.
Jim's fine record as SEC
prompted the nominations
committee's backing as their
candidate for Club President
1986.

I wish to thank all who
have helped out over the
past two years during my
term as club President. It
has been very rewarding to
say the least as I have
come to know most of our
members on a first name
basis. Thanks for your
support throughout my two
terms as Club President. I
am looking forward to serv-
ing on the Board next year.
Hope to see you on December
13, at the annual meeting.

de Dave - NØCLW

THE WANTS ADS

FOR SALE: Complete TS-180 line. TS-180s, SP-180, 180 remote VFO, tuner, PS-30 power supply and MC-50 mic. Super low hours. It all works. Sell Complete only \$750.00 TS-130S, mobile n/c mic, MC-50 mic, PS-30 power supply, Mobile mounting bracket, Kenwood mobile Jr. tuner and hustler mobile ant., 10,15,20m with Expanda 5 adapter. All for \$485.00 Wilson system two, four element yagi, Ham 2 rotor, 28ft free standing pole-YOU TAKE DOWN-a bargain all for \$200.00. D-104 mic \$10.00 Tempo Power/SWR meter \$25.00 Heath electronic paddle keyer \$25.00 GLA 1000 amp. 10 thru 80 \$195.00

Steve Boone, KAØFWU Omaha 453-1635

FOR SALE: Icom IC-251a, two meter FM-SSB-CW Transceiver \$325.00

Elmer L. Johnstone, WBØTTB Omaha 895-2838

FOR SALE: Kenwood TS-700A multimode, excellent condition, \$250.00

Charlie Michel, KØQVL Omaha 391-3782

CHANGE OF ADDRESS

John E. Bruckner NØAJU 5424
No. 61 Omaha, Ne. 68104
571-9554

John R. Click KD8YH P.O. Box
71 Greenfield, Oh 45123

Ronald L. Hassinger KA5SVQ
3427 Loring St. Omaha, Ne.
68123 291-9061

CHARTER LIFE MEMBERSHIPS

Our group is growing more and more each month.

If you have been a member for two or more years you are eligible to apply for a Charter Life Membership. This special status is only available until December 31, 1985. Charter Life Memberships may be applied for at the December meeting.

de Ellen WBØHWF Charter Life Membership Chairman

HAM HUM SURVEY

As you may know, the club now has full financial responsibility for the publishing HAM HUM. Monthly printing and mailing costs for 350 copies have been estimated to be approximately \$1600 per year, (\$.38 per issue including postage). Your response in answering the following questions would be appreciated.

Please either return this form to Steve Budzinski, KØHRF at 3518 So. 105th Avenue, Omaha, Ne. 68124 or inform him of your responses by telephone at 391-0784 home, or 341-8028 work Mon-Fri 8am to 5pm. Please respond no later than December 20, 1985.

- | | YES | NO |
|---|-------|-------|
| 1. Do you wish to continue receiving a club newsletter? | _____ | _____ |
| 2. If you answered YES to question 1: | | |
| a. Is \$1600 per year reasonable? | _____ | _____ |
| b. Do you feel that the new format is adequate? | _____ | _____ |
| c. Should the size/pages be reduced? | _____ | _____ |
| d. Should the size/pages be increased? | _____ | _____ |
| e. Is it necessary to publish every month? | _____ | _____ |
| f. Are you willing to help publish a newsletter? | _____ | _____ |

3. Other comments: _____

Name and Callsign (optional) _____

ATV...CONTINUED

had left it. A good indication of its reliability. It was nearly a month until weather and schedules cooperated to actually put it up on the tower. There were a few minor problems at its new site due mostly to the high RF environment not at all unexpected. It took another two weeks before, again, the weather and schedules cooperated to allow these to be corrected and the installation completed. There are a few minor adjustments to be made and the camera needs a bit more shielding to keep the RF out of it so that it will give good color again. Until then we will have to be satisfied with a good B&W picture.

All of the power, video/audio switching, and control circuits were designed and built by WBØCMC. The transmitter exciters are P.C. electronics KPA-5 boards and the control receivers are by Spec-Com. The AZ-EL mount for the camera and its steering circuits are by Ed, WB5MAP and one of his associates. A big thank you to Ed for that and to Bob Grinnel of Surplus Sales of Nebraska for donating the stepper motors used in its construction.

I have made a new documentary tape showing all of the aspects of the machine which was played at the Midwest convention in September here in Omaha. Copies are available to anyone who wants one. To get your FREE copy just send a stamped, self addressed blank video tape (format of your choice) to WBØCMC and he will dub it for you. UPS costs just under \$2.00 which is also acceptable.

Preliminary reports from people who have seen the signal include a perfect snow free picture in Fremont, some snow on rabbit ears on a cable ready set in Council Bluffs (WAØZQG), a snowy but discernable picture with a six element beam at 20 feet on cable ready set in Lincoln (WAØWRI) and a decent picture in South Omaha (WDØBGT). From these reports it appears we will have a very good and wide coverage particularly considering the wide band width.

To simply receive the video from the repeater there are several possibilities. The output is on 421.25 MHZ and happens to be on cable channel 57. This is not to be confused with UHF channel 57, they differ by about 200 MHZ. Not all cable ready sets are capable of this either. The set must have at least 130 channel capacity with one of these sets one only needs an antenna, a good quality piece of coax, the lower the loss the better, and an antenna switch for TV-cable. A second method is to pad a UHF tuner. I have done it to four so far and in all four it took 6pf in the oscillator section and 2.5pf in the two RF sections. Of course it is very difficult to get channel 26 after such modification but, then, who watches them anyway? Besides one can get the same thing on 12. In all four of these the sensitivity of the sets was in the neighborhood of 10 microvolts, about the same as before the modification. A third way is to buy a down converter. There are several on the market ranging from about \$40 to \$120. The only type I have direct knowledge of is the one by PC Electronics. I find it to be a very good and reliable board and costing about \$60 it seems to want a 50 ohm source or it tends to oscillate any UHF antenna cut for 425 MHZ should be close enough for this.

If one wishes to transmit video through the system, the cost now begins to rise, and rather rapidly. While one can receive it for next to nothing up to about \$150, to transmit takes a wide band transmitter a camera, VCR or other video source, none of which are very cheap. The cheapest cameras are B&W security/surveillance cameras available for \$50 and up. Old commercial UHF transceivers can be converted for wide band AM and are available for \$25 and up at ham fests. These need only a single channel for ATV. The cheapest ATV transmitter is the KPA-5 at \$160 from PC Electronics. Wyman Research also seems to have a good line of ATV supplies but I am not yet familiar with them.

That's it for this issue folks, except to note that I have been asked to do one of the spring programs on ATV in general and this system in particular before the foul weather season gets here. Stay tuned for further details.

de John, WBØCMC

MINUTES OF THE MEETING

The meeting was called to order by the President, Dave Hamilton, NØCLW, at 7:50 p.m., with the reciting of the Pledge of Allegiance.

Members present introduced themselves.

A motion was made and seconded to approve the Minutes as published in HAM HUM.

The Treasurer's report was read by Sam Kaplan. A motion was made, seconded and unanimously passed to approve the report as read.

The President introduced Mitch Gagne, NØAZF, as the new HAM HUM editor. Dave Hamilton will be the assistant Editor. The President asked that all members support the HAM HUM by contributing articles.

The President presented two new membership applications. Apon motion duly made, seconded and unanimously passed, the applications were approved.

The president read a letter from the National Weather Association advising the club that it has been selected to receive an award of excellence in recognition of its outstanding contribution to meteorological operations: in particular for help during the severe flood in the Elkhorn River Basin in June, 1984. The award will be presented to Mr. Jim Zoller at their annual meeting in Kansas City November 11-14, 1985.

Jay, KB8TR, Education Chairman, announced that there are approximately 35 members in the current Novice Class. Jay also announced the results of the Repeater Committee survey from the October club meeting.

Walt, KAØDMB, advised that a Treasurer's report for Midwest '85' should be ready by the middle of November.

Rich, WAØZQG, announced that VEC testing would be held at the red cross at 6:30 p.m., on Monday, November 2, 1985.

John, WBØCMC, announced that the ATV repeater is up and working. John also announced that a transmitter hunt will be held on Sunday November 10, 1985.

Jim, NØAIH, gave a report on Midwest '85' and advised that our unoffical profit would be approximately \$5300. A final report will be given at the December meeting.

The President advised that the December meeting will be our annual meeting and election of officers. There will also be a large raffle and a reception to honor one of our members.

There were several announcements by members.

Greg, NØBTN, handled this month's raffle during the coffee break.

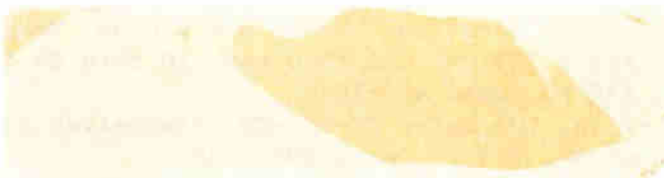
After the break. Jim, WBØQGV, introduced the guest speaker, Roger Ghormley, WØKK, who presented his ZIN demo.

Meeting adjourned at 9:40 p.m.

Respectfully submitted

Sandra Hamilton Secretary Pro Tem

***** COPY DEADLINE FOR HAM HUM IS JANUARY 17TH *****



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Asst. Editor:
Dave Hamilton, NØCLW

DUES-ANNUAL BASIS

Full Member.....\$10.00
Spouse.....\$2.00
Student.....\$4.00
LIFE MEMBERSHIP AVAIL.



from

ALAN McMILLAN WØJJK

140 VINE STREET P.O. BOX 864 COUNCIL BLUFFS, IA, 51502-0864

I am pleased to announce that another "HI" store is now open. It is aimed at offerings of ham "accessories"; items like --

COAX CABLE - PLUGS - SWITCHES - VHF ANTENNAS: FIXED/MOBILE
KEYS AND KEYERS - ALL B&W - AMIDON TORIDS - SWR BRIDGES
CALRAD SMALL PLUGS - TEMPO VHF AMPS - BOOKS BY AMECO -ARRL
RADIO PUBLICATIONS - RADIO AMATEURS CALLBOOK

Vine is just past the MALL downtown (between Broadway and Washington Streets.) Hours are: Tuesday thru Friday Noon/5 p.m. and Sat. 10 a.m./ 3 p.m. (unlisted) phone: 328-8636 "Please" call this number ONLY during these hours. Better still, drop in and visit a minute.