



HAM HUM

Published by
AK-SAR-BEN AMATEUR RADIO CLUB, INC.
Post Office Box 291
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VOLUME XXXVI
NO. 10

OCTOBER 1986

ATV Update

A new, separate Aural transmitter has been added to the ATV repeater and the sub carriers disconnected. The result is a 10-12 db increase in the sound carrier which tv sets see, and the sound is now full quieting on weak picture signals. There is a 12 db pix-sound carrier ratio, approximately that of commercial stations, (7-15 db), compared to the 20-35 db variable ratio it used to be, depending on video.

The picture quality also improved when the sub carrier was removed. The new Aural transmitter runs about 3-4 watts out and was donated by WBØIBV. The new crystal was donated by WQWT. Thanks to both.

A second Aural transmitter will be replacing the sub carrier generator at the channel 6 studio soon and should greatly improve the audio from downtown. I still have to figure out a duplex method for this one though.

The transmitter is ready and tested and just needs to be installed and the levels set. This will be done as soon as I get a duplexer to work.

DE WBØCMC

Calling All Young Artists

If you're an artist between the ages of 8 and 18 and have an interest in electronics, here's an opportunity you won't want to miss. We'd like you to showcase your talent and originality in our national art contest. And, if your entry is one of the winners, your artwork will be forwarded to a worldwide contest for judging. Our contest features awards along with the possibility of national and international recognition for you.

The ARRL is sponsoring a national art contest with the theme "Youth in Amateur Radio." It is a wide-open theme, which allows you to use your imagination in the following mediums: photographs, drawings, paintings and other illustrations (excluding written text). You choose the medium; all we ask is that no artwork be larger than 11 x 14 inches.

There are three age categories, and a first, second and third prize will be awarded for each one. They are: Group 1—ages 8-12, Group 2—ages 13-15, Group 3—ages 16-18. Forthcoming issues of QST will announce winning entries and awards. Winning entries and other

entries deemed appropriate will be forwarded to the "Youth in Electronics" contest being sponsored by the International Telecommunication Union, Geneva, Switzerland.

Every contest needs some rules:

- All entries must be received at ARRL HQ no later than February 1, 1987.
- Entrants must be League members or be sponsored by a League member. (If you don't know any members, write to ARRL for a list of possible sponsors.)
- Each entry must be accompanied by a completed application form (available from ARRL).
- Each entry must be the original creation of the entrant.
- Entries become the property of ARRL, and cannot be returned.
- Artwork must be no larger than 11 x 14 inches.

We're looking for your impression of Amateur Radio—any way you see it. Send for an application today to American Radio Relay League, Dept Y, 225 Main St, Newington, CT 06111.

Good luck in the contest!
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Summer Classes

Seven people passed their novice tests through Ak-Sar-Ben ARC sponsored classes held this summer. Another 2 or 3 should pass soon. We need "Elmers" for these new hams. Contact Bill True WA9ASD if you can help. Phone 571-8516 (home) 633-5282 (work). If you would like to help with the class now in session, contact Bill True WA9ASD, or attend the class, Monday 6:30 - 9 pm at the JCC 333 So. 132nd St. Omaha.

Next Meeting, October 10
Red Cross, 7:30 p.m.

Deadline November Ham Hum
October 17



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

Permission is granted for reprinting all articles appearing within this official organ, provided a credit line is given to **HAM HUM**; and in reprinting, to the author and publication from which the article was taken.

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Dues — Annual Basis

Full Member \$10.00
Spouse \$ 2.00
Student \$ 4.00
Life Memberships Available

Sept. Hunt Results

John WBØCMC hid the transmitter in Regency next to Willies house, (Willie of Godfathers). The hunt started at 3:10 pm. The order of finishers and their times were:

1. NØHBZ and Barbara :37
(Beginners luck)
2. WA9ASD-KAØUOE and NØFZK :59
3. KMØY and KAØVYS 1:18
4. WAØWRI and friend 1:40
5. NØGPD defeated

NØHFI began late as did WDØBGT. Neither was able to find the transmitter.

The next hunt will be held Sunday Oct. 12, 1986 at 3 pm. The starting point will be UNO parking lot W, at 61st and Dodge on the South side of the street. The transmitter operates on 146.52 Mhz. and check-ins are taken there and on 147.00 +/- 600.
DE WA9ASD

SSARC PRESENTS OCTOBERFEST '86 HAMFEST

TWO GRAND PRIZES: KENWOOD TH21AT'S 9AM TO 5PM

OCTOBER 26, 1986 GRANDVIEW SR HIGH 2300 HIGHGROVE RD GRANDVIEW, MO.

HOURLY DOOR PRIZES

DONATIONS:
\$2.00 Advance
\$2.50 At Door

TABLES:
\$5 Advance
\$6 At Door

EXHIBITORS SET UP AT 8:00AM

HOURLY DOOR PRIZES

TALK-IN ON 147.72/12sept.

PATIO/SWAP: FREE
First 28 to register
Registration at 7:00pm

- *FCC EXAMS GIVEN AT 9:00AM
- *FCC REPRESENTATIVE ON SITE
- *ARRL REPRESENTATIVE ON SITE
- *LUNCH AVAILABLE ON SITE

- *COMMERCIAL DISPLAYS INCLUDING TNT RADIO
- *ADMINISTRATIONS-PACKET AND COMPUTER
- *INDOOR SWAP AND SHOP (paid in advance)
- *PATIO SWAP (weather permitting/bring table)

EXPLOSIVE DISPLAY TNT RADIO SALES

DRIVING: TAKE 71 HWY TO MAIN ST. EXIT--GO EAST ON MAIN TO HIGHGROVE/FIRST LIGHT--THE HIGH SCHOOL IS ON THE LEFT.

FOR INFORMATION AND/OR TABLE RESERVATIONS, CALL OR WRITE:
LINDA HILLES/KARSEN 147.72/12
1693 RICHMOND (816) 987-3924
PLEASANT HILL, MO 64888-1145

NOTICE

The club is taking orders for replacement battery inserts for ICOM and TEMPO handhelds. These are not replacement battery packs, they are replacement NiCad batteries that you install in your existing pack. The order will be mailed on October 24 1986, so your order must be received prior to that date. If you are interested, use the order form below. Prepayment is required. Battery inserts will be delivered at the club meeting following receipt of the shipment, probably in December.

If we do not receive a minimum of ten orders for each style listed, your check will be returned. The prices listed below include 25 cents per insert to pay the shipping fees.

NOAIH

BATTERY INSERT ORDER FORM

PLEASE ORDER ___ HENRY TEMPO MR-3U INSERTS @ \$17.25 EACH

___ ICOM BP-3 INSERTS @ \$17.25 EACH

___ ICOM BP-5 INSERTS @ \$21.25 EACH

___ ICOM BP-8 INSERTS @ \$25.25 EACH

TOTAL AMOUNT ENCLOSED..... \$ _____

NAME _____ CALL _____

ADDRESS _____

TELEPHONE (h) _____ (b) _____

MAKE YOUR CHECK OUT TO Ak-Sar-Ben Amateur Radio Club
MAIL YOUR PAYMENT AND THIS ORDER FORM TO
JIM SANFORD NOAIH 9718 JAYNES STREET OMAHA NEBRASKA 68134

Alcatraz Island

The Sacramento ARC (California) will operate club station W6AK from 1730Z to 2300Z on Saturday, October 11, from Alcatraz Island in San Francisco Bay.

Frequencies: Phone - 3.950, 7.270, 14.300, 21.400, 146.52; CW - 3.725, 7.125, 14.050, 21.085; Packet Radio, W6AK-5 145.01. Special QSL available for one QSO; SWLs welcome. Send SASE and QSO info to Sacramento ARC, P.O. Box 161903, Sacramento, CA 95816-1903.

Treasure Island

The Garden State ARA (New Jersey) will operate W2GSA from 1600Z, October 4 to 1600Z, October 5, to commemorate Robert Louis Stevenson's stay on Treasure Island.

Suggested frequencies: 3.910, 7.235, 14.235. Certificates via Harry Polhemus, KN2B, 18 Gardners Lane, Manasquan, NJ 08736.



Prez Says

Once again, we must find a storage facility for the club trailers. This problem comes up every four or five years, and each time the problem is a little more difficult to solve, mainly because we continue to exhaust our resources for donated storage space.

The Board has been working on the problem for the past couple months. Let me describe what we have done so far.

We approached the union boss at the old radar site in northwest Omaha. After some discussion, we received permission to modify the old MARS building at the south end of the site. We could use the building for storage, providing we purchased the overhead doors and other materials from the union boss. That didn't sit too well, and when we found out that thieves carry stuff away from the site faster than it can be brought in, we decided the site was not the place to store club property.

We then investigated the prices at several personal storage facilities throughout the city. The best price we could find was \$750 per year. This is still a possibility, but the cost is very high. The club could erect their own storage facility for the price of a few years rent.

Next, through a club member, we approached officials of the North Omaha Airport. Space is not available.

We then called Jim Zollar at NWS. Jim didn't see any problem with building a garage adjacent to the NWS offices, but he was quick to point out that NWS will be moving to new quarters at Meade Nebraska in four or five years. We would have to either move the building, or forfeit our investment.

I then contacted my real estate broker, and asked him to investigate the possibility of a long term lease on some industrial property in the city. No luck there either.

We contacted Ak-Sar-Ben. No luck. Red Cross, explained that they have to lease storage space, and space was critical in their leased warehouse facility.

We then approached the Douglas County Sheriff, and asked him to assist us with permission to erect a storage garage at the county yard. That looked very promising until, on September 15 We were notified that the County Board had denied our request, contending that previous arrangements with similar organizations had caused problems. The County Board felt that if they let us in, they had to let everybody in.

We presently have a petition before the City Council requesting space at one of the city park maintenance facilities. We should know the results of that request by the middle of October.

In the meantime, and in the event the city turns us down, it is time to appeal to the membership for assistance. I am asking every member to examine facilities at their disposal. A small two car garage would be adequate. The only requirements are security, and protection from the weather. A long term lease would be most desirable, but even a 9 month lease would allow us time to continue the search for permanent quarters through the winter months.

If anyone has any suggestions, information, or even a wild shot, please call me immediately at 571-2704.

DE NOAH

On Line

By Scott Persson WBOQPP (SYSOP)

Last month we took a look at some possible future paths that our system could take. These paths ranged from more disk space to buying another computer and interfacing with packet radio. The possibilities are indeed exciting but let's take a look at some facts before any road is chosen.

CART + HORSE OR HORSE + CART ?

I think I put the cart before the horse last month by presenting a wish list before anyone was aware of how the system was actually performing. I carefully track the system use and have compiled some interesting statistics. So, to put the horse first on the second try, let's examine some numbers.

JUST THE FACTS MA'AM...

Number Of Calls (03/10/86 to 09/11/86 = 166 Days).....	1,047
Average Number Of Calls Per Day.....	6
Average Length Of Call In Minutes.....	10
Number Of Validated Users.....	67
Users Who Are Club Members.	33 of 67 (49%)
Users Who Are Not Club Members.	34 of 67 (51%)
Users With Amateur Licenses	46 of 67 (69%)
Club Members.	32 of 46 (70%)
Not Club Members.	14 of 46 (30%)
Users Without Amateur Licenses.	21 of 67 (31%)
Club Members.	1 of 21 (70%)
Not Club Members.	20 of 21 (30%)
Locations Of Validated Users *	
Council Bluffs Iowa.	1 of 67 (2%)
Bellevue Nebraska.	6 of 67 (9%)
Elkhorn Nebraska.	1 of 67 (1%)
LaVista Nebraska.	1 of 67 (1%)
Lincoln Nebraska.	2 of 67 (3%)
Omaha Nebraska.	53 of 67 (79%)
Papillion Nebraska.	2 of 67 (3%)
Menlo Park New Jersey.	1 of 67 (2%)

Totals.	67 Users 100%

* Does not include callers who have called from outside the Omaha area who have not asked to be validated.

SUMMATION AND CONCLUSION

Actually, I'm not done yet. I just always wanted to use that subheading in an article. It looks businesslike.

Anyway, it is clear to see that the system IS being used. The system is used most by club members in the Omaha area, no big surprise in that.

(Continued Next Page.)

On-Line (continued)

What is a surprise is the number of non-Amateur users. These people do not call as frequently as Amateurs do, but THEY DO CALL! I have received comments from them stating that they like the system and some are getting interested in Amateur Radio!

If an Amateur Radio BBS like ours, affiliated with the Ak-Sar-Ben Amateur Radio Club, has the ability to gain the interest of people who never heard of Amateur Radio before, then I think the system has paid for itself. Most of the non-licensed users who call the system had no idea what the system was like before their first call yet they continue to call back!

A FOOT IN THE DOOR

But what other advantages can a club BBS have? Consider the public relations capability. The average non-ham thinks a box with knobs connected to an antenna must be CB (don't misunderstand me, CB is very useful in its own realm). But, we have the ability to inform that guy of what Amateur Radio is, what it can do, what it is doing now and hopefully, how it could benefit him. By placing information on Club events and A.R.E.S. activities on the system, I hope to interest the Amateur as well as inform the non-Amateur as to who we are and what we do.

We can, so to speak, let everyone with a computer and a modem put their foot in our door. With any luck, maybe the other one will follow.

WRONG + WRONG = RIGHT ?

I goofed last month by not putting this information first and again this month by not placing last month's column here (follow that?) so two wrongs do equal one right (don't let your kids read that last sentence).

Next month is another open month (which means I am running out of topics to blow hot air about). If you have any questions or topics of discussion, call me at 289-5426 or maybe I'll see you OnLine!

Membership Updates

NEW MEMBERS

Michael J. Enarson
8925 Cuming
Omaha, NE 68114
391-6546

Richard B. Smith KY5R
5844 Western Ave.
Omaha, NE 68132
553-8903

Kenneth C. Borchert KØSCE
7710 Parker
Omaha, NE 68114
397-3724

Evan E. Kerr
9136 Washington
Ralston, NE 68127
331-7323

Steve E. Stock WBØWMN
1437 South 163
Omaha, NE 68130
334-7470

Thomas S. McShane NØBTP
2500 California
Omaha, NE 68178
280-2167

Frederick D. Wood III
6110 North 36
Omaha, NE 68111
451-5186

ATTENTION:

The new Club Roster has now been distributed. All corrections should go to:

Ellen, WBØHWF,
immediately for inclusion in next month's Ham Hum.

Minutes of the Board

The September meeting of the Board of Trustees was held on Tuesday, September 2, 1986, at the American Red Cross. Meeting was called to order at 7:11 p.m. Members present were:

WBØQPP - Scott
NØAIH - Jim
KB8TR - Jay
NØBTN - Greg
WA9ASD - Bill
KØBØY - Doug
WBØQGV - Jim
KCØR - Larry
Executive Secretary WBØHWF - Ellen

Guests attending were:

WBØDMB - Walt, and
NØAZF - Mitch.

Guides detailing job descriptions of various committees were distributed. Discussion was held on format and content of the guides. All committee chairmen were requested to have guides completed by the October meeting.

COMMITTEE REPORTS

Repeater Committee - KB8TR - Jay

Jay reported on the installation of heat sinks on the 34-94 repeater. Installation will be completed in the near future. Discussion centered on a "cut out" problem with the 34-94 repeater. The extent of the problem was discussed and possible solutions proposed. Additional tune up of the 220 repeater is scheduled to be done before winter.

Club Picnic Committee - WBØQPP - Scott

Scott reported no progress on the softball picnic. Board members questioned whether this event could still be scheduled this late in the year. It was stated that Mabry Park has been reserved for a club picnic on Sunday, September 28. After much discussion it was decided to abandon the idea of a softball game - picnic combination. The chairman was requested to present a suggestion at the October meeting for a club event to be held during the Christmas season. Plans are to be presented for both a children's event and an outing for the adults.

Education Committee - WA9ASD- Bill

Bill announced a new class for novice and generals to begin on September 22nd at 6:30 at the Jewish Community Center. Explanation was given about particular techniques being used in teaching the classes. Bill presented some ideas for advertising the classes.

Equipment Committee - KØBØY - Doug

Doug stated a location for the storage of the equipment was still a problem. Jim - AIH - reported he had received some information on a possible site for temporary storage. This possibility is being investigated.

(Continued Next Page.)

Minutes Board (continued)

Walt - DMB - reported that Thursday, October 9th, Hams are requested to aid in communications for area hospitals participating in a simulated disaster drill. He asked that any interested Hams are to contact Walt - DMB - at his home address. It was moved that we recommend the use of WOZQU for the event. Motion passed by unanimous vote.

NEW BUSINESS

Life membership application of Harold - WAØDGA- and Eva McClenahan was presented. Motion was made by Larry - KCØR - that we accept the request for life charter membership for Harold and Eva McClenahan. Seconded by Jay - TR. Motion passed.

Greg - NQBTV - presented unpaid bills amounting to \$141.88. The expenditures were discussed by the Board. Doug - BØY - moved that we pay the bills as presented. Jay - TR - seconded. The motion passed. The monthly budget print out was distributed and discussed. Jay - TR - moved to accept the treasurer's report. Jim - QGV - seconded. The motion passed. Jim - AIH - reported that the funds to cover the "Amateur of the Year" award for 1984 and the special award life membership for John - WBØCMC - had not been transferred to life time account. During discussion it was mentioned that this problem existed for 4 other members and 3 of the spouses. Larry - KCØR - moved that we transfer the funds to the life membership account to reflect the number of those members who have received honorary life time membership. This amount is for members and their spouses at the time the membership was awarded. Money is to be transferred for five members and three spouses for a total of \$700.00. Jim - QGV - seconded the motion. Motion passed 7 - 1.

Meeting was adjourned at 21:36.

Respectfully submitted

Larry Bock- KCØR -
Secretary

Murphy was an optimist.

YOU WILL ALWAYS FIND SOMETHING IN THE LAST PLACE YOU LOOK.

THE CHANCE OF A PIECE OF BREAD FALLING WITH THE BUTTERED SIDE DOWN IS DIRECTLY PROPORTIONAL TO THE COST OF THE CARPET.

NO MATTER HOW LONG OR HARD YOU SHOP FOR AN ITEM, AFTER YOU'VE BOUGHT IT, IT WILL BE ON SALE SOMEWHERE CHEAPER.

NO ONE'S LIFE, LIBERTY, OR PROPERTY ARE SAFE WHILE THE LEGISLATURE IS IN SESSION.

THE OTHER LINE ALWAYS MOVES FASTER.

IN ORDER TO GET A LOAN, YOU MUST FIRST PROVE YOU DON'T NEED IT.

ANYTHING YOU TRY TO FIX WILL TAKE LONGER AND COST MORE THAN YOU THOUGHT.

IF YOU FOOL AROUND WITH A THING FOR VERY LONG YOU WILL SCREW IT UP.

A \$300.00 PICTURE TUBE WILL PROTECT A 10¢ FUSE BY BLOWING FIRST.

YOU WILL REMEMBER THAT YOU FORGOT TO TAKE OUT THE TRASH WHEN THE GARBAGE TRUCK IS TWO DOORS AWAY.

THE RACE IS NOT ALWAYS TO THE SWIFT NOR THE BATTLE TO THE STRONG, BUT THAT'S THE WAY TO BET.

THERE'S NEVER TIME TO DO IT RIGHT, BUT THERE'S ALWAYS TIME TO DO IT OVER.

WHEN IN DOUBT, MUMBLE. WHEN IN TROUBLE, DELEGATE.

ANYTHING GOOD IN LIFE IS EITHER ILLEGAL, IMMORAL OR FATTENING.

IT IS MORALLY WRONG TO ALLOW SUCKERS TO KEEP THEIR MONEY.

A BIRD IN HAND IS SAFER THAN ONE OVERHEAD.

MURPHY'S GOLDEN RULE: WHOEVER HAS THE GOLD MAKES THE RULES.

EVERYTHING EAST OF THE SAN ANDREAS FAULT WILL EVENTUALLY PLUNGE INTO THE ATLANTIC OCEAN.

NATURE ALWAYS SIDES WITH THE HIDDEN FLAW.

Minutes of the Meeting

September General Membership Meeting:

The meeting was called to order at 7:47pm by Club President Jim Sanford NOAIH. The pledge of allegiance was followed by introductions around the room. Among those attending were two Lincoln hams, one ham from Rapid City, South Dakota, three newly licensed Novices from the Club's license classes and two non-ham visitors.

Four new members were unanimously approved. Congratulations to Evan Kerr (new Novice, no call yet), Michael Enarson (new Novice, no call yet), Tom McShane NOBTP and Steve Stock WBOWMN.

Sid Reade WOWWH thanked all who participated in the Offutt Open House. The communications provided was appreciated by those at the base.

Jim Peterson WBOQGV gave the Special Events Committee report. The August 29th River Boat Ride was very successful! There will be an Open House at the Neale Woods Nature Center on Sunday, September 14th. Several operators are needed for the event. Contact Jim for more information.

Walt Brown KA0DMB discussed the upcoming October 9th Simulated Disaster. The mock disaster will take place in Kansas City and will give the Omaha area an influx of about 6,000 simulated casualties. Operators will be needed at Epply Airport, the EOC and all area hospitals from 11:45am to 3:00pm. If you are interested, contact Walt at 451-1072.

Vern Wirka WBOGQM, the ARRL Section Manager (SM), reported that he has been reelected to that post for another two years. Membership in the League is also down. Those planning on joining the League or renewing membership should do so through the Club. Two dollars of each membership goes right back to the Club when you do that.

Jim NOAIH reported that the Presidential Select Committee will meet in mid-October to choose candidates to be recommended for nomination to the 1987 Executive Board. If you know someone who would fulfill the duties of a Board member, send your recommendation and a brief description why the person should be considered to Jim's home address by October 11, 1986.

Rich Swig WA0ZQG reported that the 146.22/.82 repeater is down for repairs and relocation. The repeater is now at a new site, has no autopatch, and will be moved again soon. The 147.66/.06 repeater is back in operation and is an open machine.

Bill True WA9ASD gave the Education Committee report. The next Novice class will begin Monday, September 22nd at the Jewish Community Center at 333 South 132nd Street in Omaha. Classes will last from 6:30pm to 9:00pm. The next test in Omaha is planned for Friday, November 7th. There is also a test in Lincoln on Sunday, October 26th. Volunteers are needed to help our newly licensed hams get on the air. Those interested should contact Bill.

Bill also reported that the next transmitter hunt will be held on 146.52 simplex on Sunday, September 14th at 3:00pm starting at lot "W" at 61st and Dodge.

(Continued Next Page.)

Minutes Meeting (continued)

Jim NOAIH reported to the membership that the Club will lose its storage space for the antenna and generator trailers early next year. He requested that the membership give approval to a motion to allocate up to \$3,000 for a permanent garage to be built at the County Garage site at 156th and Maple contingent upon securing a long-term lease on the site. The County Garage site is completely fenced in for protection against theft and vandalism. Twenty-four hour access is available to authorized persons so no accessibility problem exists. The Club will attempt to secure a lease on land large enough to hold the garage and the allocated money would go to building the garage itself. Olin Stanfield K0JKW made a motion that the Club allocate up to \$2,500 and purchase a garage kit for the site. He will head a committee to build the garage. The motion was seconded by Dick Eilers W0YZV, voted on and approved. Construction volunteers should contact Stan.

There was a break for coffee and doughnuts at 9:04pm followed by a tape from the Society of Wireless Pioneers in which the daughter of Marconi spoke of her father followed by a taped discussion of the early days of experiments in radio.

Respectfully submitted,
Scott Persson W0QPP

Want Ads

WANTED:

Hallicrafters S-38 receiver
Call Jim K0UIS 333-8842

FOR SALE:

Johnson Viking II transmitter w/manual, relay, extra tubes \$30. NTS electronics and microcomputer course with digital multimeter, logic probe and compu-trainer (unassembled). It's all there! \$50.
Call Jim KA0BVV 331-1476

WANTED:

All mode 2 meter rig
Call Dallas KA0KLA 496-2351

FOR SALE:

Mod. 28 receive only teletype \$25. Paper tape punch Mod. 35 Teletype Corp. \$25. Paper tape reader \$20. HW-16 Heathkit Tx/Rx and HG-10B VFO never used \$100. Hammurlund receiver \$20. Heathkit 2036 mobile 2 meter radio \$150. Sears portable solid state 4 band receiver am/fm/shortwave \$5. Heathkit HD-14 code oscillator with key \$10. Hustler mobile antenna with mast and ball mount RM 752 80 meter vertical \$45. Packard/Bell AM/FM radio \$5. AM/Shortwave receiver \$10. Vertical element (3) 11 meter super scanner antenna w/electrical relay phase switching for semi-directional gain control \$75. Tripod, 3 foot \$10. Rohn HDBX 48 ft. self supporting tower with house brackets and foldover base. Rated at 18 sq. ft. at 70 MPH winds. Buyer removes. \$250. Cushcraft DX-120 2 meter 24 element antenna missing 3 reflectors. Still flat SWR \$40. Self supporting windmill type tower 65 ft. Square cross section ladder to top walk platform on top heavy duty homemade rotor and control box easily handle anything you can put on it. Buyer disassemble and remove, EST 2 days \$500. Telrex 6 element 4 kw tribander. Large diameter aluminum boom with-stands Nebraska wind storms very well. \$300. RTTY demodulator kit partially built. All manuals and parts \$150. Mobile amplifier for 2 meters. 50 watts \$25. Archer antenna control \$25.

Call 733-4279 (leave Message) for appointment.

Coming Attractions

OCTOBER

7	Ak-Sar-Ben ARC Board Meeting 7 pm Red-X Omaha	NØAIH
8	Lincoln ARC meeting 7:30 pm Red-X Lincoln 146.25/85	WAØASM
9	Bellevue ARC Meeting 7:30 pm Sarpy Cty. Courthouse .81/21	WBØWXS
9	Cw net 21.125 Mhz. 8 pm	WA9ASD
10	Ak-Sar-Ben ARC Meeting 7:30 pm Red-X Omaha 146.34/94	NØAIH
11-12	VK/ZL/OCEANIA CW contest	CQ 8/86 p 52
12	RSGB 21/28 Mhz. SSB contest	CQ 8/86 p 52
12	Transmitter hunt 3 pm UNO parking lot W 146.52	WA9ASD
14	Radio Society Of Council Bluffs meeting 7:30 pm 146.60/00	WAØZQG
15-17	YLRL Anniversary CW party	CQ 8/86 p 52
16	Cw net 21.125 Mhz. 8 pm	WA9ASD
18	RSGB 21 Mhz. CW contest	CQ 8/86 p 52
18-19	Boy Scouts Jamboree	CQ 8/86 p 52
23	Southwest Iowa ARC meeting Red-X Council Bluffs 22/82	NØFFG
23	CW net 21.125 Mhz. 8 pm	WA9ASD
24	Pioneer ARC meeting 7:30 pm Library, Fremont 07/67	KCØLG
25-26	CQ WW DX Phone Contest	CQ 8/86 p 52
25-1	Cayman Islands Pirates Week	CQ 8/86 p 52
29-31	YLRL Anniversary SSB Party	CQ 8/86 p 52
30	CW net 21.125 Mhz. 8 pm	WA9ASD

NOVEMBER

4	Ak-Sar-Ben ARC board meeting 7 pm Red-X Omaha	NØAIH
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from

AMATEUR RADIO EQUIPMENT

ALAN McMILLAN WØJJK

WIN A KENWOOD TH-21/AT 2M/H.T. JUST FOR VISITING OUR STORE !
 EACH DAY YOU VISIT US YOU CAN TAKE A CHANCE ON A NICE PRIZE, FROM \$1 CREDIT CERTIFICATE -- UP TO A TH-21/AT 2 METER RIG ! NO PURCHASE IS NECESSARY FOR 1 CHANCE, BUT YOU CAN ALSO GET ADDED BONUS CHANCES. COME IN FOR DETAILS--AND--WIN A PRIZE !

ANTENNA TIME

LOOKS LIKE GOOD WEATHER FOR NEW ANTENNAS BEFORE WINTER . WE HAVE A GOOD SELECTION OF WIRE-COAX-PLUGS-TRAPS-ACCESSORIES .

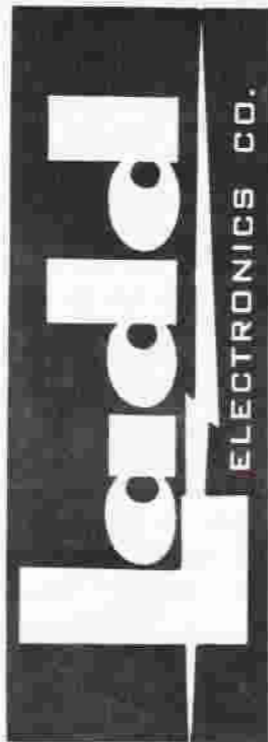
EASY RECEPTION OF 421 MHZ ATV
 WE STILL HAVE THE POPULAR ATV BOARDS, FACTORY WIRED AND TUNED. JUST CONNTECT TO 12VDC (50MA.), A 420 MHZ ANTENNA AND CH4. TV.

1986 A.R.R.L. HANDBOOKS \$12.95
WHILE A VERY FEW LAST

SEVERAL NICE USED RIGS & ACC.

HI=AMATEUR RADIO EQUIPMENT

140 VINE ST. (E. end Midlands Mall between Broadway/Kanesville)
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