



# HAM HUN

AK-SAR-BEN  
RADIO CLUB  
INC.

WØEQU

August 1961

P. O. 291

Omaha 1, Nebr.

Vol. XI No. 7



AUCTION - August 13th  
See pages 2, 3 and 9.

## NEXT MEETING . . .



CHOWDOWN for Chow Hounds at Latenser Farm on August 13th at 1:30 P.M. Bring your appetite and \$1.25 for each adult - 75¢ for kids under 12. Enjoy a family outing in the good old summertime with your fellow members.

## July Club Meeting

Despite the fact that we had a very pleasant evening plus a comfortable meeting place, the club turnout was rather small on July 14th.

Russ Rutherford, KØSBS, was presiding officer at the meeting in our president's absence. Russ, Royal Enders and others gave reports regarding status of convention.

We are indebted to Northwestern Bell Telephone Co. for providing the entertainment of the evening. Namely, the color

films entitled Direct Distance Dialing and Seconds for Survival, a presentation narrated by Raymond Massey. Our thanks also to Mr. Stan Smith of the Telephone Company for answering our questions about the DDD and for explanation on same.

Welcome back to Omaha for Earl Olson, Ex-WØJKE and XYL Marion. Earl got up and gave us a very much needed scolding for our lack of welcoming and public relations and after this, we all

(Continued on page 3)

(Continued from page 2)

should do our part to extend a warm welcome to new faces in the future. A motion was made to re-establish a welcoming committee - this is probably long overdue but everyone can help in this respect. I must confess that I did not recognize Earl with a positive identification when I first saw him in the lobby - it seemed that his appearance had changed some after so many years and though he did look familiar, I just assumed that he was one of the boys who only came to the club meeting once a year or so. hi. (Of course, none of the rest of us have changed.)

The group then pitched in and did some convention envelope addressing and got 2000 envelopes done in just this one evening, thanks to the large group involved. Unfortunately, the groups that have been showing up on Tuesday and Thursday evenings were pretty small. We hope to get some better cooperation on some

of the other convention projects if we're going to make it a success.

After the letter addressing, the group adjourned for refreshments in the GM cafeteria. Our gratitude to Royal for making these facilities available. During the refreshment, one very important subject was brought up and that is the problem of some of the newer residential additions having restrictions on antennas and particularly, amateur radio antennas. If you're buying a new house, study over the papers carefully and learn if any such restrictions do exist before you sign on the dotted line. This has been mentioned several times in both QST and CQ publications and still it continues to be a pitfall. Moral of this is: Read your amateur radio publications carefully - they can sometimes save you lots of grief.

73,

John, WØWRT

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## PICNIC

The August 13th meeting will replace our normal picnic in September and the auction in October. As was announced in a special letter to the Omaha area Hams, the picnic will be held at the Latenser Farm, starting at 1:30 p.m. So, bring your gear for the auction and go out 30th Street north to the end and proceed on the road to Ft. Calhoun to Douglas County Road #7, turn right and follow the signs to the Latenser home.

There will be no meeting the second Friday in view of this picnic.

The price of admission - \$1.25 for adults; \$.75 for kids 12 and under. This price includes all the victuals. If you don't want to use the plastic spoon and fork, feel free to bring your own. If you bring enough stuff to auction, you won't have to bring any money to buy and don't forget the Club benefits 10% of the auction price.

## VHF Report - 2 Meters

The first good tropo opening on 144 mcs. this summer took place the evening of July 17th when numerous stations from the Minneapolis, Minn. area were worked from Omaha. Apparently only other local station on was Frank, WØEMS, besides this station. Stations worked were WØIFS at Minneapolis, also KØGGG in same City, then WØJHS at Champlin, Minn.

Also have been several fair openings to the south - WØQDH at Salina, Kansas, frequently heard and worked. We often hear the Forbes A.F. Base MARS Net here in Omaha, but difficult to work them because of inferior receivers in use there. (Too many BC-639's issued, hi'.)

We have a new net member in the 2 meter MARS Net No. 42A. He is AFØNWC, Bill Stevenson of Auburn, Nebr. Reminder - this is a very small net and some new members, especially some of Omaha's 500 amateurs would be welcomed. Anyone sincerely interested, contact me - address is in club roster. All you need is equipment capable of working on the MARS frequency of 143.95 mcs., just below the amateur portion of the 2 meter band. Helpful hint for builders-A good item for making link couplings for xmtrs. or converters is the multi-colored small plastic wire

used in telephone cables. Scraps of this cable are usually left over at the time of an installation job esp. in industrial or business places.

One of the most useful gadgets to have around the workshop or hamshack is the small printed circuit size CBS Soldering aid. Unfortunately, none of the local jobbers stock these small sized tools but they are available from Allied in Chicago.

A new adhesive so powerful and quick setting that you almost have to see it to believe it works is the Eastman 910 adhesive which is distributed by Armstrong Cork Co., Industrial Adhesive Sales of Lancaster, Pa. This adhesive is a clear colored liquid that comes in a plastic small bottle and doesn't look very impressive but when you have two surfaces that need joining, all you do is place a drop or two, depending on the size of the work, rub the surfaces together and in 30 seconds, you cannot pull the joint apart. I recently used this adhesive to repair a broken center insulator block on a Telrex beam and it doesn't show any signs of ever coming apart again. Don't know what the price is as yet. (probably high.

73,  
John, WØWRT  
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# Economy 10 Meter Receiver

It has been the author's belief that a useful communications receiver could be built for far less than a commercial unit could be obtained.

This, however, is not entirely the case. Old short wave receivers can be bought for five or ten dollars that, with a few modifications, can successfully be used on the novice bands. But, for the "High Bands" there is not much that the general with a flat wallet can afford. Here is where construction comes in. A superhet is not suitable for such a project due to its complexities and high cost of parts. A regenerative receiver does not perform well on the high bands, so what is left? The Heath Company has had very good results with super-regenerators in their line of small transceivers. Maybe this would provide the answer.

The first attempt at a 28Mc to 30Mc unit worked quite well. It used a 6AC7 as R.F. amplifier, 6C4 as detector, 6AU8A as first and second audio, 6AQ5 as output, and a solid rectifier. It worked well but was still too complex.

The second attempt is presented here. It is a simple receiver that uses a 12AT7 as grounded grid R.F. amplifier and super-regen detector, a 6AW8A is used as first and second A.F. amplifier, a 6X5GT is used in the power supply.

Construction is simple and

should present no problems. The first step is to mount your tuning capacitor and power transformer at opposite ends of the chassis. Now, take a small piece of aluminum or copper 3" x 2" and punch a nine pin socket hole in one end of it. Now take this piece and bend  $\frac{1}{2}$ " of the other end to form a mounting flange. Screw this to the chassis so that the socket tabs are about  $\frac{1}{2}$ " from the tuning capacitor and coil L1. The tuning coil is mounted vertically from the stator (fixed plates) to a ground lug, the cathode tap on the author's set is two (2) turns from ground. The best point for this tap may be found by experimenting.

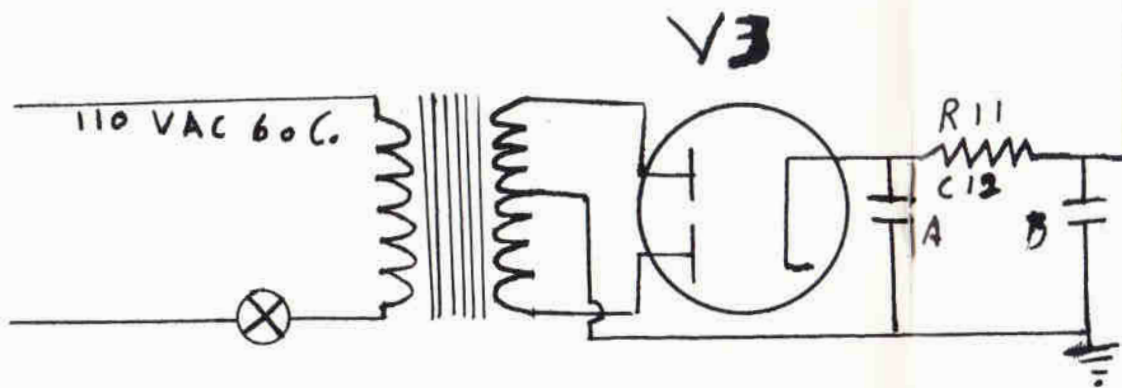
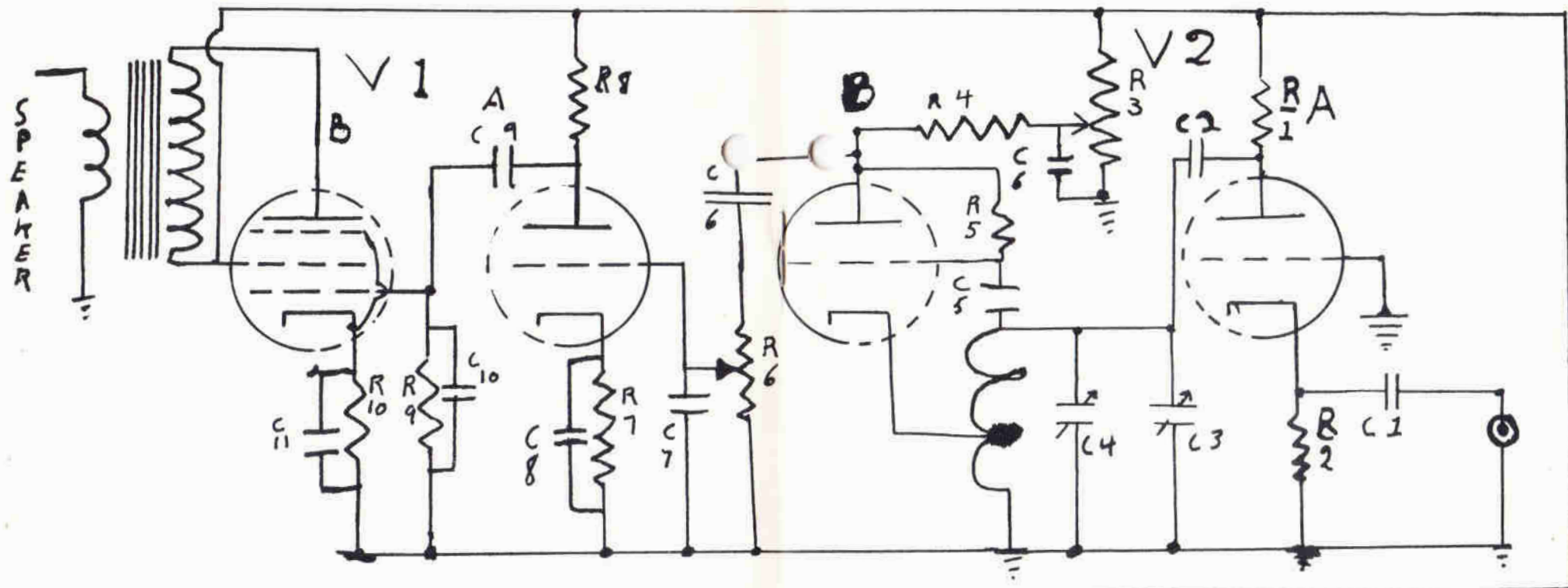
The rest of the circuit is simple, and with care no problems will arise.

Oh yes, don't forget the .001's by-passing the audio grids to ground. They are essential to the operation of the receiver.

If you can't beg, borrow, or steal a signal generator, most TV shops have them available (at a price). With the signal generator adjust the trimmer C3 so that the 10 meter band is about mid-scale.

Note: If the pentode section of the 6AW8A seems to overheat, or the screen grid glows red, install a 33K ohm resistor in the screen grid lead.

73's, Richard Pitman  
5617 Frances Street



One output transformer 10K ohm primary: One power transformer 200-0-200 at 65 mil: One 10-10-MFD 250 Volt Electrolytic (C12): Plus sockets, utility box, dial, etc.

V1 - 6AW8A  
 V2 - 12AT7  
 V3 - 6X5  
 R1 - 22K 1W  
 R2 - 470 ohm 1W  
 R3 - 100K ohm Pot Regen

R4 - 100K ohm 1/2W  
 R5 - 10 Meg ohm 1/2W  
 R6 - 500K ohm Volume Control with switch  
 R7 - 1K ohm 1W  
 R8 - 220K ohm 1/2W

R9 - 70K ohm 1/2W  
 L1 9 turns No. 12 on 3-1/8"  
 R10 - 200 ohm 1W Ceramic form  
 C1 - 470 MMF Disk  
 C2 - 10 MMF Disk  
 C3 - 3-30 MMF Mica Trimmer  
 C4 - 10 MMF Variable

C5 - 100 MMF Silver Mica  
 C6 - .001 Disk  
 C7 - .001 Disk  
 C8 - 10 MFD 25 Volt Electrolytic  
 C9 - .001 Disk  
 C10 - .001 Disk  
 C11 - 10 MFD 25 Volt Electrolytic

**OFFICIAL BULLETIN NR 809  
FROM ARRL HEADQUARTERS  
WEST HARTFORD CONN JULY  
20 1961 TO ALL RADIO AMA-  
TEURS BT**

The FCC on July 19 amended the amateur rules to make it possible for citizens temporarily living outside the jurisdiction of the FCC to apply for the Conditional Class license regardless of their permanent home address. The revised regulations, requested by ARRL, becomes effective on September 6, 1961, and apply to those whose absence is expected to be for more than one year. AR

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**OFFICIAL BULLETIN NR 810  
FROM ARRL HEADQUARTERS  
WEST HARTFORD CONN JULY  
28 1961 TO ALL RADIO AMA-  
TEURS BT**

In the fourth, fifth, eighth, ninth, and tenth call areas the FCC is now issuing WN call signs to Novices. When these amateurs qualify for licenses of a higher class, however, they will receive WA calls rather than W calls. The FCC feels that the WN call more readily identifies a Novice than does the WV call used in the second and sixth areas. AR

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Gentlemen:

Please be advised of new address for Millard J. Edgerton, WØNRT/6.

1573 Clark Ave.

Yuba City, Calif.

Millard says he would appreciate receiving Ham Hum at the new QTH and to bill him if desired.

He is now working for the RCA Service Company at Beale A.F. Base, Calif., has been busy since moving and has bought house. Not on air yet and hasn't as yet applied for his 6-land call. He'd be glad to hear from any of his friends in the Ak-Sar-Ben Radio Club.

John Snyder, WØWRT

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Just a line to let you know I have finally received my California call - WA6 six - have just bought a home here and will be back on in about two weeks with a full KW on 80, 40 & 20. Will also be on with some power on two around 750 watts or so on two. May try some skids with the Med Wert later on. New address is 14595 Cole Drive, San Jose 25, Calif.

73's

Bert, WA6 Six

ex WØRYG

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Dear OM-

I would like to suggest that the membership might check into the possibility of getting John Sanovick as a new member. He is the manager of Evans Electric Co. in Omaha. He has his novice ticket and a "S" line to go with it. He would like help in getting his general and is interested in joining the club. I am sorry I can't give his address or call because the information came indirectly. I told him how to get in touch with Curt Hicks - maybe he has.

For those of you who don't remember me, I was a member of the club from 1954-60 and served on the board for 3 years I am now a senior in Colorado State University majoring in Electrical Engineering. I get tied up in school quite a bit but now and

then I can be found on 10-15-20 Mobile using a G-66B and a Morrow 565.

Last year I married a YL from W7 land (Montana), but her call has slipped me due to the fact that she is in the hospital after having a Jr. op. two days ago. (Also a girl). Tell Dick Eilers that the address I gave him a year ago hasn't been placed on Ham Hum yet and if he gets a chance to do so it's at the bottom of the letter.

I hope all is going well with the club and I hope that I can find a chance to visit you again soon.

Yours truly,  
Roland Johnson  
WØSPQ

QTH: Route 3, Box 170  
Fort Collins, Colo.

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Going...Going.....gone and another chassis of gadgets has found a new shack at the AUCTION. The date: August 13th, place: Latenser Farm. Clean out your junk box, and bring a bundle of cash to fill it up again....



OFFICIAL BULLETIN NR 807  
FROM ARRL HEADQUARTERS  
WEST HARTFORD CONN JULY  
6 1961 TO ALL RADIO  
AMATEURS  $\overline{BT}$

The attention of DXers is called to the addition of KUWAIT/SAUDI ARABIA NEUTRAL ZONE to the ARRL Countries List. This Neutral Zone is located between Duwait and Saudi Arabia and is territory over which sovereignty has not been established. DXCC credit claims for this addition received before November 1, 1961, will be returned without credit. QSLs must be dated November 15, 1945, or later. DXCC Notes in September QST will carry further data on the addition of the NEUTRAL ZONE to the countries list.  $\overline{AR}$

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Dear Dick:

Just a short note with a long thank you for the excellent job that the Ak-Sar-Ben Radio Club did for us during the recent United Cerebral Palsy drive here in Omaha. I can honestly say that without your organization's services that the drive would not have been half as successful as it was.

On behalf of everyone who worked on the drive with you, we would like to thank you for a job "extremely well done."

Cordially yours,  
Howard D. Vann  
General Chairman

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OFFICIAL BULLETIN NR 808  
FROM ARRL HEADQUARTERS  
WEST HARTFORD CONN JULY  
14 1961 TO ALL RADIO AMA-  
TEURS  $\overline{BT}$

The Federal Communications has extended maritime mobile operating privileges on a world wide basis to include the 14.00 to 14.35 MC band for U.S. amateurs, effective August 21, 1961. The league filed comments in support of the rules change proposed by the Maritime Mobile Amateur Radio Club. At present, U.S. amateurs may operate maritime mobile within Region 2, North and South America, between 7.0 and 148 MC inclusive, and when outside Region 2, on 21.00 to 21.45 MC and 29.0 to 29.7 MC.  $\overline{AR}$

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"I dunno, all my life I've been unlucky."

# ARRL Convention

The Convention Committees under the able leadership of Royal Enders, KØLYO, are finding the pieces falling in place for the Midwest Division Convention, to be held in Omaha at the Sheraton-Fontenelle Hotel on October 7th 8th.

The envelopes are all addressed for the general letters to all of the Hams in the four-state area of the Midwest Division. The brochure is in process of printing so we should be well under way shortly.

The program is shaping up in fine order and in addition to the good time to be had by all Hams in attendance, the program promises to be very interesting and informative. Some of the subjects to be treated are: Operation World Wide; Cause and Remedy of Mobile Noise Interference; Modern Receiver Design; Introduction to Modern Modes of Ham Operation; and Trends in Modern Antenna Systems. Just to give you a sample, speakers are coming from Hallicrafters, Delco Remy, Hy-Gain, Central

Electronics, Collins Radio, General Electric, and a couple more we haven't verified as yet.

The modest price of \$8.50 (\$9.50 after September 25th) entitles you to all of this plus the entertainment, chance at the prizes, and particularly the special pre-registration prize, and above all includes two meals - a smorgasbord on Saturday night and the banquet on Sunday. Items of interest cover the entire Ham fraternity from HF to VHF and novice to oldtimer.

Plan now to come as you will not want to miss this fine Convention as well as a chance for the regular ragchew and the chance to see some of the latest gear on exhibit. In fact, charter your bus now and bring the whole gang.

If you wish to sign up now, send your check and the pre-registration blank enclosed to P. O. Box 291, Omaha 1, Nebr. Don't forget to bring the OW. We haven't forgotten her part in the program either.

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## PRE-REGISTRATION - MIDWEST DIVISION CONVENTION

I desire to register for the ARRL Midwest Division Convention:

Name \_\_\_\_\_ Call \_\_\_\_\_ \$ \_\_\_\_\_

Address \_\_\_\_\_

Pre-Registration Fee (prior to 9-25-61) \$8.50 each

Junior Ops (meals only - no prizes) \$7.50 each

Checks should be made payable to ARRL Midwest Division Convention or to the Ak-Sar-Ben Radio Club, Inc. and mailed to P.O. Box 291, Omaha 1, Nebr. Enclosed is check for \$ \_\_\_\_\_ to cover pre-registration fee for above named.

Signature \_\_\_\_\_

**AK-SAR-BEN RADIO CLUB INC.**  
**P. O. BOX 291**  
**OMAHA, NEBRASKA**

NEXT MEETING  
PICNIC and AUCTION  
LATENSER FARM  
AUGUST-13, 1961  
1:30 P. M.