



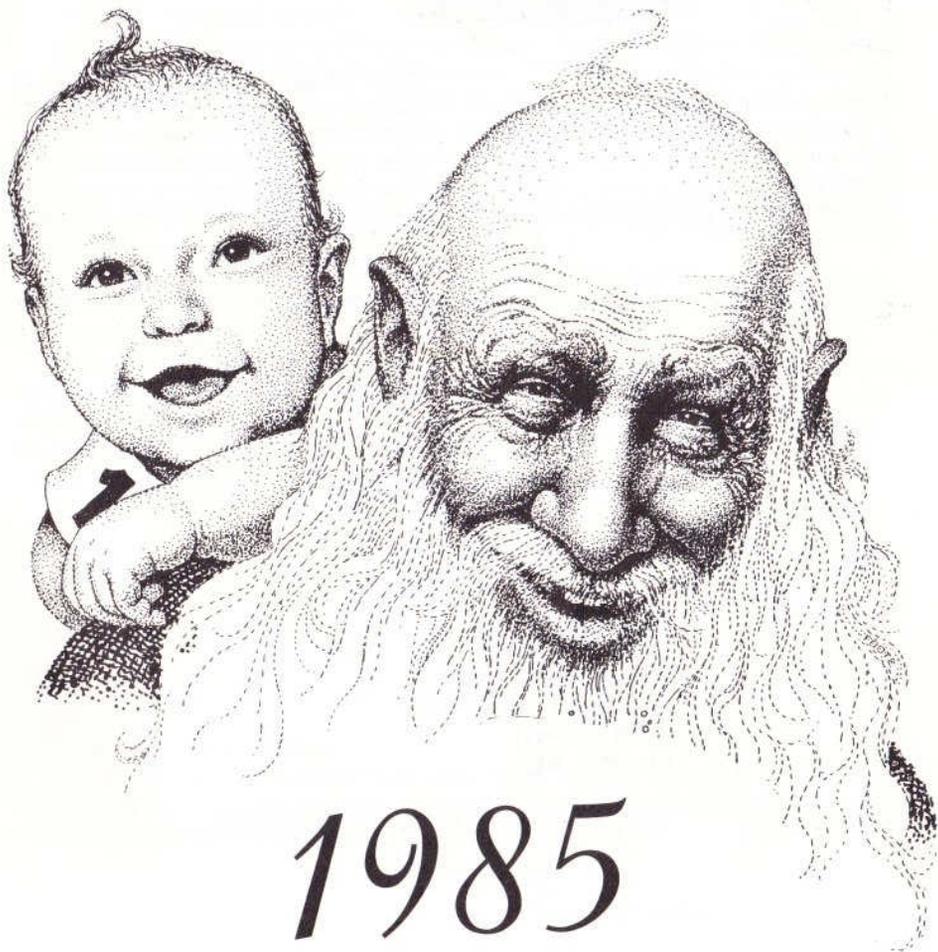
HAM HUM

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



January 1985

Vol. XXXV
No. 1



1985

Deadline for February HAM HUM is January 21, 1985.

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

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Omaha, Nebraska 68101
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Res.: 397-3999
Phones: Bus.: 342-1402
X-200

Copy Deadline for Feb. is Jan. 21, 1985



Dues—Annual Basis

(Due and Payable each January 1.)
New member initiation fee . . . \$1.00
Regular member \$10.00
Regular member and spouse . . \$12.00
Student member \$4.00

Dues—Quarterly Basis (For each quarter or part thereof for balance of calendar year.)

New member initiation fee . . . \$1.00
Regular member \$3.00
Regular member and spouse . . . \$3.60
Student member \$1.05

NEXT MEETING

WHEN: January 11, 1985
TIME: 7:30 P.M.
WHERE: Heartland Chapter
American Red Cross
3838 Dewey
Omaha, NE
PROGRAM: DX-peditions by Pat Connell NØBNY

PREZ SEZ

Well, Folks, a new year is upon us and many exciting new projects are taking place.

First of all, thanks to Mitch NØAZF, and Duke WDØEWH and helpers for the fine Christmas Party held at the Red Cross. The kids and adults all had a great time.

Also, the Club's first Charter Life Membership was purchased by Erv Heinz WAØEEM at the party. During 1985, all Life Memberships approved by the Board will be designated "Charter Life Memberships." After 1985, they will be called "Life Memberships." This makes this year a special time to become a Life Member.

Don't forget to mark your calendar for the State Convention which will be held on March 30 and 31 in Kearney.

This month's program will be given by Pat Connell NØBNY. Pat is going to tell us how to become a rare DX station. Pat has travelled to various far away places and set up several DX stations. His program will include slides from his travels and all the "how to's" for those interested in a DX-pedition.

The first All-Committee Convention Meeting will be held on January 6 and details of the meeting will be discussed during the January Club Meeting.

Lloyd McElhanev KØDKM became the recipient of the 1984 Ham-of-the-Year Award at the December meeting. Congratulations, Lloyd, on a well-deserved award.

Code and Theory classes for General and Advanced Licenses will be held at the General Motors Training Center, 225 North 80th Street. Jay Nichols, Education Chairman, reports they will begin at 7:00 p.m., Monday, January 14.

See you at the January Club Meeting.

de Dave NØCLW

LETTER TO THE EDITOR

Dear Dick —

Dues for 1985 enclosed.

We will be on Montserrat from Jan. 16 to March 16, 1985. Will have a 3-element 40 meter beam at 70' available which should prove interesting! Season's Greetings to all the Omaha Gang.

73,
Dave, VB2MDB

FEDERAL COMMUNICATIONS COMMISSION

FIELD OPERATIONS BUREAU

October 31, 1984

Grand Island Monitoring Station
P. O. Box 1588
Grand Island, NE 68802

AK-SAR-BEN Amateur Radio Club, Inc
David B. Hamilton
P. O. Box 291
Omaha, NE 68101

Phone 308-382-4296

Dear Mr. Hamilton:

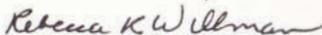
In an effort to help resolve interference complaints and to keep the public informed on current policies, licensing procedures and regulations, the FCC is continuing to expand its public service department.

As the Contact Representative for the FCC at the Grand Island Monitoring Station, I will be handling complaints and questions within the State of Nebraska. We currently have on hand most license forms, element study guides, and a variety of consumer information on the FCC in general and on radio/TV interference.

In order that more amateurs may be aware of the services that we are able to provide, I would appreciate you passing this information on to your club members or putting a small notice in your newsletter. If your club publishes a newsletter, I would appreciate being put on the mailing list.

If I can be of service to you or your club in the future, write or call me at the above number Monday through Thursday between 8:00 A.M. and 4:30 P.M.

Sincerely,



Rebecca R. Willman
Contact Representative

Michael Boyle
315 South Happy Hollow Blvd.
Omaha, Nebraska 68132

November 1, 1984

Mr. Walter J. Brown, Jr.
6206 Sprague Street
Omaha, Nebraska 68104

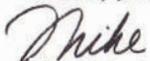
Dear Walt and Members of Ak-Sar-Ben Amateur Radio Club:

Thank you for the card. I appreciate your thoughtfulness.

I have been spending a lot of time reading lately, which is something I never seemed to get around to doing during the last couple of years. There are several books that I am looking forward to reading. Actually, it helps me to avoid soap opera addiction.

Again, I appreciate your kindness. It's nice to have friends like you.

Sincerely yours,


Michael Boyle

PAST PRESIDENTS OF THE CLUB

1945	Nels Peter Nelson, W7RCF (Ex-WØYDC)
1946	John F. Leeder, WØUFD
*1947	Arthur R. Gaeth, WØFQB
1948	Herbert D. Curry, WØQXR
*1949	Elmer N. Stein, Ex-WØAVM
1950	Dr. Leon Becker, W6AID (Ex-WØBBX)
1951	Earle E. Olson, WØJKE
1952	John W. Orr, WØPHW
*1953	Rev. R. J. Strange, WØQHG
1954	Frank W. Cooper, W3NV (Ex-WØIOS)
1955	Arthur E. Sadler, W9KHD (Ex-WØQMD)
1956	Dick L. Eilers, WØYZV
1957	Curtis D. Hicks, KØAMM
*1958	Edward Gutmann, WØCQX
1959	David A. Hollander, W6COJ (Ex-WØCJW)
*1960	Max N. McKinney, WØYVV
1961	John A. Droescher, KØKWB
*1962	Royal M. Enders, KØLYQ
1963	Joseph F. Berounsky, KØQDB
1964	Louis A. Cutler, WØVLI
*1965	Edmond E. Donze, WØYEV
1966	Byron J. Smith, Sr., WAØICK
1967	Ervan D. Heinz, WAØEEM
1968	Robert C. Lockwood, WAØDHU
1969	Royce E. Johnson, WAØKIL
1970	Harold E. McClenahan, Jr., WAØDGA
1971	James C. Droege, WØYCP
1972	Edward F. Askew, WAØRDZ
1973	Russell A. Minks, WAØVEE
1974	Vernard Riportella, WA2LQQ (Ex-WBØGAJ)
1974-75	Marion Wilczynski, WBØBMV
1976	Edward C. Eichler, WBØBCB
1977	Robert A. Conley, WBØLYU
1978	James R. Peterson, WBØQGV
1979	Thomas L. Theissen, KØPQR
1980	Richard D. Jugel, KØDG
1981	James B. Wilson, WBØJPN
1982	Walter J. Brown, Jr., KAØDMB
1983	William H. Martin, NØANQ

*Deceased

1985 BOARD OF TRUSTEES

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M. Jay Nichols, KB8TR	333-9412
James R. Peterson, WBØQGV	558-0643
James C. Faulkenberry, N5DZZ	571-5092
Scott E. Persson, WBØQPP	289-2545

CONGRATULATIONS!

WE SEE IN THE OMAHA WORLD-HERALD...

...that Don Suddeth WBØYAM won the men's Class D Good Fellows Bowling Tournament sponsored by the Omaha World-Herald. He is donating his winnings to the Good Fellows. He bowled 146 pins over his average.

Dear Fellow Dentron Amplifier Users:

GOOD NEWS! Parts and AMPS are available through CoilCo Electronics, 223 North Michigan Avenue, Edgerton, Ohio 43517, (419) 298-2346. This is good news about these fine amplifiers.

73

KØQVL
Charlie on Charles

Dear Fellow Members:

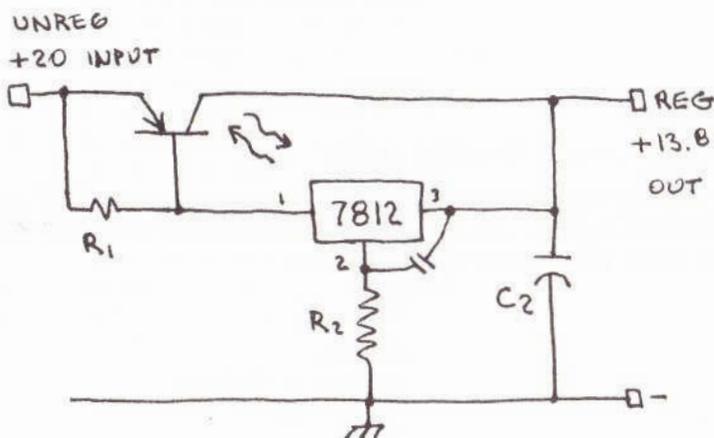
I will try to start a library of cassette tapes of all teleconference nets, starting with this last one. If you missed one or want to review the subject, I will duplicate from John's repeater or other source. This will be a free service to Ak-Sar-Ben ARC members.

KØQVL
Charlie on Charles

6 PARTS, 7 AMPERES

This low parts count regulator is adapted from a fancier circuit in 73 Magazine. Mounting the transistor and IC on the same heat sink enables the built-in thermal shutdown feature of the IC. Current out of pin 2 is fixed at about 4 mA making it easy to raise the output of the regulator to an exact 13.8 VDC. Output regulation is excellent without the variable BE drop found in some NPN designs.

- | | |
|----|-------------------------------|
| Q1 | PNP 60V 15A |
| R1 | 3 Ohm 5W |
| IC | 7812 Three Terminal Regulator |
| R2 | 390-470 Ohm |
| C1 | .01 on IC Leads |
| C2 | 10 uf 25V |



de WAØZQG

WRNO

This is a little different SW broadcast station. The call letters refer to 'Rock New Orleans' but the format includes two beat jazz. During the call in programs you'll hear names from Omaha to Switzerland. The schedule illustrates for the Novice which bands are good as the hour changes.

10 A 11965
11 A 15420
3 P 11925

5 P 9852.5
7 P 7355
9 P 6185

Info from Joe, WRI

DONATIONS

CHANGE OF ADDRESS

34/94

Don Eden WBØVGB
Duke Humphrey WDØEWH

James Faulkenberry N5DZZ
5318 N. 97th Avenue
Omaha, NE 68134
402-571-5092

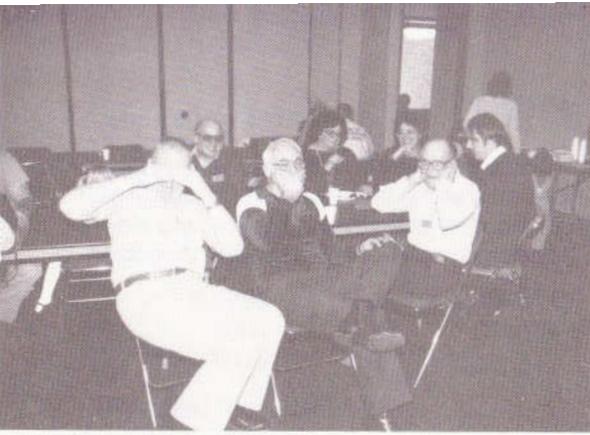
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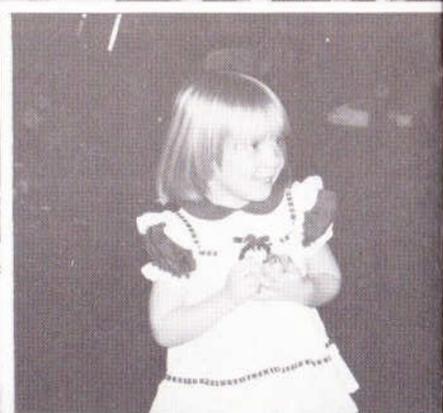
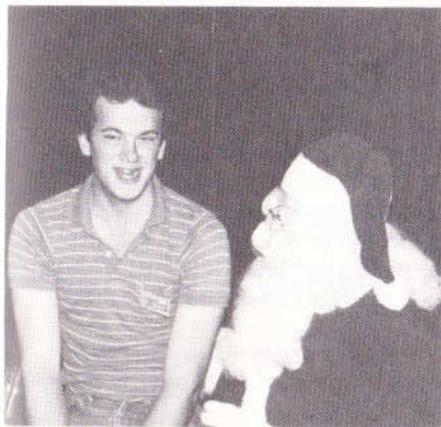
Duke Humphrey WDØEWH



"I think we're putting too much strain on this machine...it's asking for an aspirin."

Christmas Party photos on following pages by NØCLW.





LET'S GET DOWN TO EARTH

Part 2

Last month we confused everybody with the facts. I'll try to simplify things a bit.

A simple way to determine the effectiveness of your antenna grounding system is to try what's called The Two-Terminal Test. Refer to Figure 3.

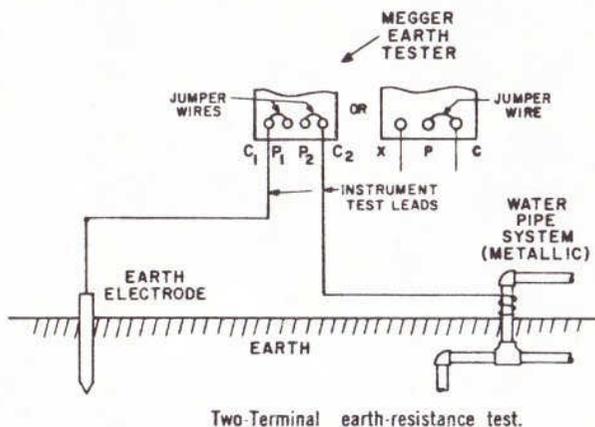
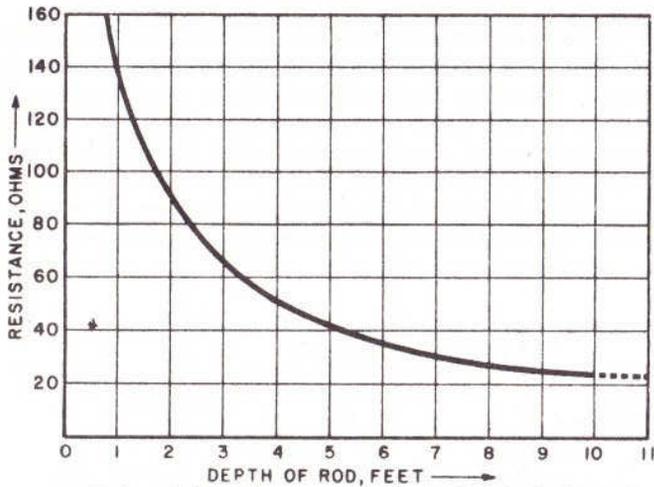


FIGURE 3

The Two-Terminal Test measures the resistance of two electrodes in series. The electrodes are, the driven rod and your cold water piping system. But wait; there are three things to consider before you run out and try this. Your water piping system must be extensive enough to have negligible resistance to earth. Second, your water piping system must be metallic, without insulating couplings. Third, the earth electrode under test must be far enough from the water pipe system to be outside its sphere of influence. If you think your grounding system falls into this category — then a megger will measure your system resistance within a few ohms.

What do we do if the earth-electrode resistance is not low enough? We can lengthen the earth electrode. Earth resistance decreases with the depth of the electrode (Figure 4).

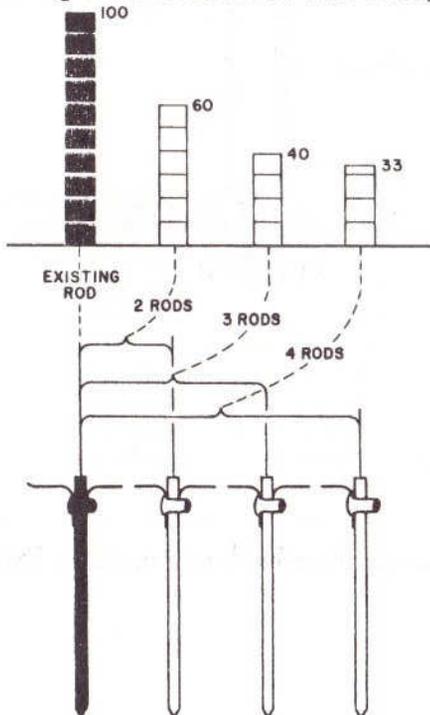
(See top of opposite page for Figure 4)



Earth resistance decreases with depth of electrode in earth.

FIGURE 4

We can use multiple electrodes. Two properly spaced rods provide parallel paths. The rule for two resistances applies....almost. Figure 5 illustrates the average results obtained with multiple electrodes.



Average results obtained from multiple-rod earth electrodes.

FIGURE 5
HAM HUM

Soil temperature also effects resistance. In this climate, the earth is frozen for long periods. The chart in Figure 7 illustrates earth resistance during the seasonal cycle, and includes a reference to the effects of chemical treatment.

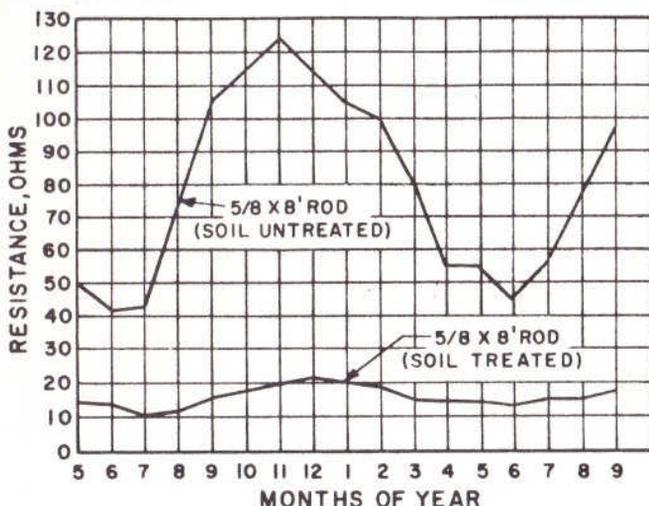


FIGURE 7

I'm tired of writing, so let's make some conclusions. First, to provide a decent earth connection; the electrode(s) should not be placed randomly. Consider the sphere of influence from other electrodes, and by all means, select the area of lowest resistance! The electrode(s) should be deep enough to be in contact with some permanent level of moisture, and deep enough to penetrate beyond the frost line. Before you use chemicals, consider the effect on your lawn, garden, or trees.

If you wonder about the chemical make-up of your soil, select a sample and take it to your Extension Service. For a very small fee they will analyze your soil and determine its deficiencies. Low sodium means higher resistances.

By the way, after you complete your testing on your earth electrode(s), meg your concrete tower base, just to check Dr. Ufer's theory.

Anybody got a megger?

DE NØAIH

RB Associates

R. H. BRENNEMAN

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HAM HUM SWAP

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

FOR SALE BY THE AK-SAR-BEN AMATEUR RADIO CLUB, INC.:

Super Station Master (Comprod). Would be over \$300 if new. Bids for item will be accepted until March 1, 1985. Item was used at Crown Point on 34/94. Money back guarantee if used for transmit or receive. (Non-full duplex.)

Send bids to P. O. Box 291, Omaha, NE 68101.

ARE YOU ANY OF THESE?

THRIFTY HAM . . . One who goes to a SWAP Fest just to look, with no money.

DIPLOMATIC HAM . . . One who convinces YL he needs more time in the hamshack.

BOILED HAM . . . One who forgot sunscreen at local picnic and swapefest.

SMOKED HAM . . . One who forgot to ground his antenna during Thunderstorm.

LONELY HAM . . . One who has rig in shop.

WORRIED HAM . . . One whose tower just fell across neighbor's house.

NERVOUS HAM . . . One who has just received his first pink ticket.

IGNORANT HAM . . . One who believes the Woulf Houg is going to get him.

LAZY HAM . . . One that spends 5 hours devising way to avoid 5 minute job on committee.

From QRZ
GRID LEAK

LARSEN ANTENNAS TAKE ON SHUTTLE COMMUNICATIONS



"The operation was an unqualified success!", so said ARRL's general Manager Dave Summer, K1ZZ reviewing the recent amateur radio operation of Owen Garriott, W5LFL, from the orbiting Space Shuttle Columbia. And so it was also for Carl J. Henniger, KA7GHR, who made his successful contact on an afternoon shuttle pass over Portland, Oregon.

"I did it with my mobile rig sitting in front of my garage with 45 watts of power feeding into a

Larsen Kuldock Antenna", Carl said. "I was sure thrilled 'cause I was competing with the moon bounce boys with their yagis and big antenna arrays."

KA7GHR also uses a Larsen Kuldock portable antenna on his handheld rig and monitored the space shuttle with that transceiver though he didn't try a contact. "It was just as good as you ever hear somebody talk on two meters", Carl concluded.

