



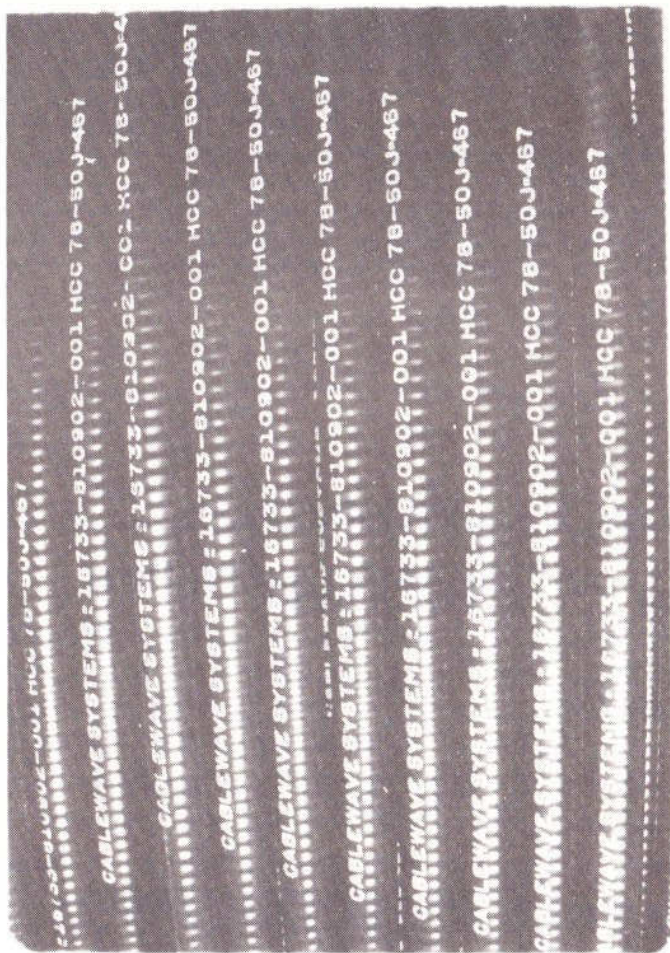
HAM HUM

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



Vol. XXXIII
No. 2

February 1983



WHAT IS IT YOU SAY??
(See page 16 for answer)

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

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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

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AK-SAR-BEN AMATEUR RADIO CLUB,
INC.

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Omaha, Nebraska 68101

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WØWRT

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Copy Deadline for March is Feb. 18.

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: Friday, February 11, 1983

TIME: 7:30 P.M.

WHERE: Heartland Chapter
American Red Cross
38th and Dewey Avenue
Omaha, NE 68105

PROGRAM: Dick Jugel (KØDG) will present a demonstration and discussion of a computerized American Red Cross Emergency Traffic System.

PREZ SEZ

The first meeting of the year is long over, and the next one is coming up fast. Our thanks to Lysle Renne for arranging January's program with his son-in-law. It was excellent.

The committee chairmen for 1983 are pretty well set, and we will publish a list of them in one of the upcoming Ham-Hum issues.

In April many of us will be moving north to the Marina in Sioux City for the Midwest Convention. I understand rooms at the Marina are sold out, and the exhibitors' space has been over sold. So it looks like there will be plenty to do along with a good turnout. There are still some rooms left in other area motels, so get your reservation in soon.

The Auction is set for May, and Jim Sanford tells me that plans are moving along nicely. Start digging out gear and other goodies to bring to the Auction. Food will also be available, and we are looking for volunteers to help set up and move stuff around during the auction.

June brings Field Day. More on this next month.

On the downside, last month we had to pay a small cleaning fee since we didn't quite get everything cleaned up at the Red Cross Meeting Room. Please be sure to pick up after yourself following meetings.

The new 10 MHz Band seems to have plenty of room so far — even with the reserved zone. Rig up an antenna and get your key out. Give it a try. See you next month.

de Bill, NØANQ

IMPORTANT DUES NOTICE

1983 dues were due January 1 and become delinquent February 28. To remain in good standing, dues must be received by March 2, 1983. Please call Ellen Morrissey, 345-5566, or Dick Fehrman, 571-5537, if you have questions about your current status. Mail dues to: Ak-Sar-Ben Amateur Radio Club, Box 291, Omaha, NE 68101.

GENERAL MEMBERSHIP MEETING
American Red Cross Building
39th & Dewey, Omaha, Nebraska
January 14, 1983

President Bill Martin, N0ANQ, called the meeting to order at 19:30 hours and led those in attendance in the pledge of allegiance.

It was moved and seconded that the reading of the minutes of the General Membership Meeting held December 14, 1982 be waived. Motion carried.

It was moved and seconded that the reading of the minutes of the Board of Trustees Meeting held January 4th, 1983 be waived. Motion carried.

A motion came from the floor and was seconded that the secretary cast a unanimous ballot to confirm the nomination of Dick Fehrman, KA0AAB, by the Board of Trustees to fill the vacancy left by the resignation of Lysle Renne, N0CKH. Motion carried.

Moved and seconded to accept the treasurer's report as presented by Dick Fehrman, KA0AAB. Motion carried.

Auction Co-chairman Jim Sanford, N0AIH, reported on the 1983 Auction. Reported that Auction will be May 8, 1983.

Refreshments will be served by Sandy Hamilton, N0CLQ, and Nancy Genovesi, XYL of Fred, KA0KDJ, next month.

Jim Sanford, N0AIH, reported that starting Febuary 1st on 3737KHZ at 0100Z there will be a Nebraska CW Net. The net will operate daily and CW speed will be about 10WPM.

Jim Sanford, N0AIH, announced the new Douglas County ECC is Mitch Gagne, N0AZF.

President Bill Martin, N0ANQ, announced that Charles Peaker, KC0DB, will be the Education Chairman.

Moved and seconded that the meeting adjourn. Motion carried. Meeting adjourned at 21:49 hours.

Lysle Renne, N0CKH, introduced the program for the evening. The program, a slide presentation on Sites and Sounds of Nebraska, was presented by Mr. Don Cunningham from the Nebraska Game and Parks Commission.

Refreshments and eyeballs were enjoyed by all after the program.

Respectfully submitted
Ray Fink, WD0GIL
Secretary

 **Need help? Call us. Want to help?**
Call us.
Red Cross is counting on you.

A Public Service of This Magazine
& The Advertising Council



**BOARD OF TRUSTEES MEETING
Blue Cross/Blue Shield Building
January 4, 1983**

Present were: Bill Martin, N0ANQ; Marlene Jugel; Vern Wirka, WB0GQM; Walt Brown, KA0DMB; Ray Fink, WD0GIL; Dick Fehrman, K0AAB; William (Duke) Humphrey, WD0EWH; Brian Zdan, KM0Y.

Guests were: Ellen Morrissey, WB0HWF; Jim Sanford, N0AIH.

The meeting was brought to order at 19:30 hours.

The meeting went into executive session at 19:35 and returned from executive session at 19:40.

Moved and seconded that minutes of December 14, 1982 meeting be approved.

Discussion was held about prices and types of caps and jackets that the club should sell.

Moved and seconded to approve the 1983 Budget as presented.

Discussion was held on the Jewish Community Center proposal that we have monthly membership meetings there.

Moved and seconded that we write a letter to the JCC declining their offer and thank them for their offer.

Committee assignments were reviewed.

Jim, N0AIH, presented his annual equipment report.

Moved and seconded to approve the equipment report.

Moved and seconded to adjourn meeting at 21:10 hours.

Respectfully submitted
Ray Fink, WD0GIL
Secretary

Please note future meetings of the Board of Trustees will be held starting at 7PM on the 1st Tuesday of each month at the Blue Cross/Blue Shield Building.

AK-SAR-BEN AMATEUR RADIO CLUB AUCTION

MAY 8, 1983

American Legion Post 374
4760 South 135th
Omaha, Nebraska

Check In: 8:00 A.M.

Auction: 9:00 A.M.

NEW CABLE FOR REPEATER

The Club Repeater should be performing a lot better now, thanks to the efforts of John WBØ CMC (The Repeater Doctor!) and several volunteers.

In 1982 the problems with the repeater were discussed at a special Board Meeting. It was at that time that John let it be known that a major problem was the poor condition of the feed lines. Also, it was noted that the receiver could also stand a little upgrading.

As a result of that meeting, the Club purchased 700 feet of 7/8 inch air dielectric coaxial cable, manufactured by Cablewave, from Joe Annenburg of Anixter, Omaha (the low bidder). Also purchased was a new receiver from "Spec Com."

The Hardline was installed in November and the receiver was installed a couple of weeks ago.

There are still a few bugs to work out of the system but, overall, the machine is working superbly.

Special thanks to Dave Byers of OPPD for supplying the rigging needed to haul the cable up the tower.

Some pictures taken by Tom KØPQR may be seen elsewhere in this issue.

See you on the repeater.

de NØAZF

P. S. Now you should know what the PIX on the front cover is!!!

CONTRIBUTIONS

Ham Hum

Frank Beach, Jr.
Coon Rapids, IA

34/94

Gene Pace KØERJ
F. Fischer, Jr. WØEGP
Ted Parsons WBØTYB
Mike Wilczynski WBØBMV
Virgil Wamsat KBØBW

40/00

Gene Pace KØERJ
F. Fischer, Jr. WØEGP
R. Flebbe NØEFF
Virgil Wamsat KBØBW
Larry Merriman KVØG
Ray Simmons WBØYFX
Ted Parsons WBØTYB

22/82

Ted Parsons WBØTYB

CHANGE OF ADDRESS

Erwin A. Petersen WBØIQA
Route 3, Box 21
Avoca, IA 51521

Dan Klima WDØGPE
5062 S. 86th Parkway, #11
Omaha, Nebraska 68127

Bill Fehrman KAØAAA
649 S. 18th Street, Apt. 11
Lincoln, NE 68508

CHANGE OF PHONE NUMBER

William R. Francisco WAØPAL
558-0339

1983 BUDGET
AK-SAR-BEN AMATEUR RADIO CLUB, INC.

INCOME

Dues: 350 members

300 @ \$10	\$3,000.00	
50 @ \$4	<u>200.00</u>	\$3,200.00

Donations:

Repeater	500.00	
Miscellaneous	250.00	
Social Hour	<u>200.00</u>	\$ 950.00

Auction	400.00	400.00
Interest	700.00	700.00
Advertising	150.00	<u>150.00</u>

\$5,400.00

Expenditures:

Advertising/Public Relations	\$ 100.00	
Auction	500.00	
Awards	100.00	
Christmas Party	450.00	
Field Day	500.00	
Insurance	700.00	
Maintenance/Operating Expense	200.00	
Northwestern Bell	300.00	
Office Expenses	200.00	
Picnic	150.00	
Printing	<u>600.00</u>	<u>\$3,800.00</u>

Capital Expense:

34/94 Repeater Repair	\$1,600.00	<u>\$1,600.00</u>
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\$5,400.00

Middle-age is when you go all out and end up all in.
de CHARRO, Texas

1982 Financial Statement Ak-Sar-Ben Amateur Radio Club, Inc.

Income:

ARRL	\$ 197.00
Auction '82.	4,709.91
Decals	15.00
Decoders.	172.00
Dues	3,187.00
Ham Hum	137.50
Jacket/Hat Refund	290.70
*Miscellaneous	2,191.83
Name Tags.	32.25
Repeaters: 34/94	523.25
40/00	362.50
22/82	95.00
Social Hour.	<u>192.09</u>
Total	\$12,106.03

*Miscellaneous includes return of Field Day advance and Savings Withdrawal to purchase CD's.)

Brought Forward January 1, 1982	\$ 1,543.13
Income	<u>12,106.03</u>
Total	\$13,649.16
Expenditures	<u>12,457.65</u>
Brought Forward January 1, 1983	<u><u>\$ 1,191.51</u></u>

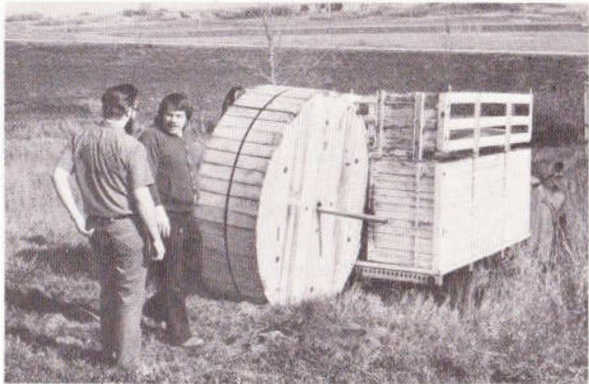
(Continued on Page 9)

Expenditures:

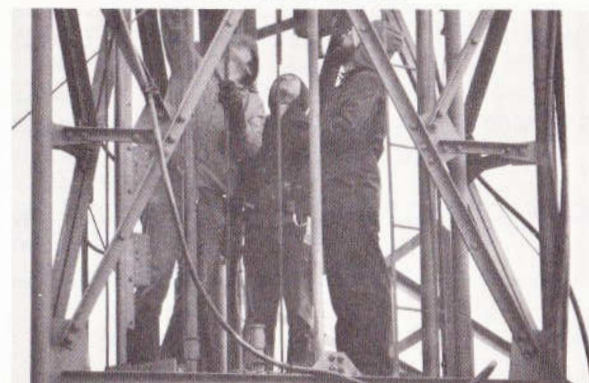
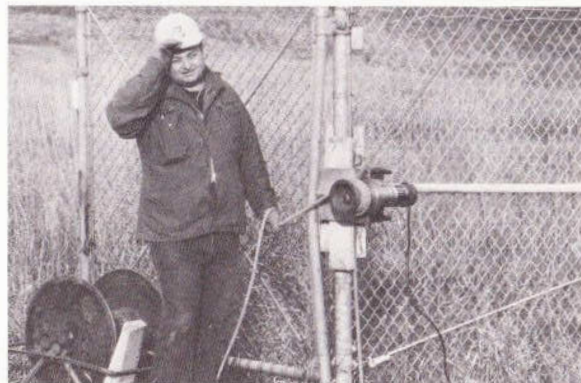
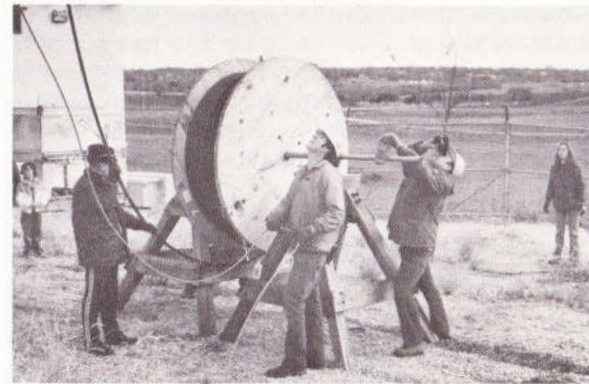
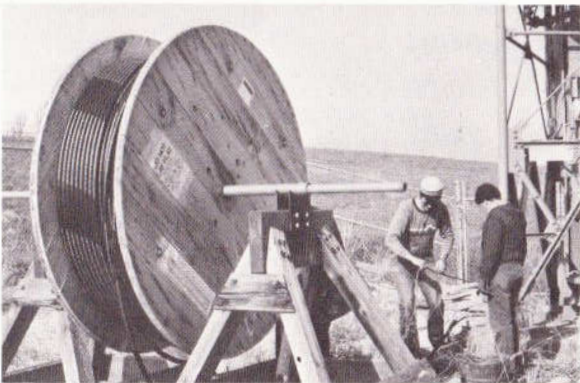
ARRL	\$ 181.00
Auction '82.	4,287.42
Christmas '81	212.05
'82	456.18
Dance	175.00
Field Day	598.46
Insurance.	663.35
Jackets/Hats	274.70
*Miscellaneous	2,903.14
Name Tags.	33.21
Northwestern Bell	266.80
Office Supplies.	16.72
Postage.	171.87
Repeaters: 34/94	592.68
40/00	486.50
22/82	140.00
Savings to First Natl. Bank	642.00
Social Hour.	158.50
Trailer Repair.	58.62
World Insurance	<u>139.45</u>
Total	\$12,457.65

*Miscellaneous includes Safety Deposit Box Rental, Deposit Slips, Silent Key Plaque tags, Repurchase Agreement and Certificate of Deposit purchases, service charges by bank.

First National Bank Savings	\$1,193.67
Commercial Federal Savings	\$2,087.51
Certificates of Deposit — Commercial Federal	\$9,439.95



PHOTOS BY
TOM
KOPQR



MIDWEST DIVISION ARRL CONVENTION

The Midwest Division ARRL Convention is being sponsored by the 3900 Club and will take place April 15, 16 and 17 at the Marina Inn, South Sioux City, Nebraska.

OUTSTANDING PROGRAMS: Two programs by ARRL HQ. — The "Eyes of the Storm" presented by Ak-Sar-Ben Club of Omaha. This is a severe weather presentation designed especially for the Amateur Operator! Emphasis is on storm recognition and methods of communicating weather activity to the Weather Service forecaster. Presentation utilizes lay terminology and is a MUST for everyone. — AMSAT — Repeater Council — The Cable TVI Problem; what it is. Technical know-how by an amateur who knows the score and has successfully removed Cable TVI from the 2 meter band in his city. How to effectively fight back, using technical and political means. — Region 3 of Air Force Mars, including all Midwestern and Central States. — QCWA Luncheon — 3900 Club Quarterly Meeting breakfast — Church Service Sunday AM — Novice program and session; one of the most popular on the agenda! — Computers — And More! — Special Programs designed for the Ladies not interested in Ham Radio. — The ARRL Forum with all the dignitaries winds up Saturday afternoon.

-----MOTELS NOW AVAILABLE-----

(Make reservations through WØFZO; special rates apply. We will confirm to you. The Marina Inn is sold out! Give first and second choice. Check-in time is 4:00 p.m. If you have a credit card, advise us of name and number.)

TRAVELODGE: South Sioux City, NE — 3 blocks from Marina Inn. One bed single \$22.50. One bed double \$28.75.
Two beds double \$30.75. Three people \$33.75. Four people \$35.75.

HOWARD JOHNSON: Sioux City, IA. One bed \$30.00 Two beds \$34.00.
Extra people \$5.00 each.

BEL-AIRE: Sioux City, IA. One bed single \$20.00. Two beds double \$28.00.

PALMER HOUSE: Sioux City, IA. One bed single \$23.00. Two beds 2 people \$25.00.

BILTMORE: Sioux City, IA. One bed single \$19.00. One bed double \$25.00.

BEST WESTERN-EXECUTIVE: Sioux City, IA. One bed single \$25.00.
Two people two beds \$30.00.
\$30.00.

SUPER 8: Sioux City, IA. One bed one person \$19.88. Two persons \$23.88. Two beds two persons \$25.88.

CAMP GROUND: South Sioux City, NE — with electricity \$5.00; without \$4.50.

FOR ANY FURTHER ROOM RESERVATION INFORMATION:

Dick Pitner WØFZO
2931 Pierce Street
Sioux City, IA 51104
Phone: 712-258-1520

MIDWEST CONVENTION RESERVATIONS:

Contact Jerry Smith WØDUN
Box 14
Akron, IA 51001
Phone: 712-568-3449

Convention **only** Admission \$6.00 — all three days.
Banquet (Saturday Night) and Convention: Preregistration \$16.00
Banquet (Saturday Night) at gate \$12.00, if available.
Woulff Hong Initiation — Midnight Saturday \$1.00

If you wish tickets returned to you, send SASE to WØDUN, otherwise they will hold them for you.

If you wish to contribute \$1.00, \$2.00 or \$5.00 to the Handi-Hams, Jerry Smith will accept your contribution IF YOU WISH. Include your name, address and your call.

ANNOUNCEMENT

Midlands ARES will present the first 1983 'All ARES' Meeting on Saturday, February 19, 1983, 1:00 P.M. at Red Cross Chapter House, 3838 Dewey Avenue, Omaha. The program will address the 1983 flood prospects. New information on area river gauge stations will highlight the meeting. All persons are urged to attend.

Mitch Gagne NØAZF Douglas Co. Emergency Coordinator

DX ANYONE?

I'm sure you are aware of the activity from FB8Z—Amsterdam & FB8X—Kerguelen on 20 meters.

If you are anti-list operation, then I certainly hope you do not need either one or both of these for a new country, because list operation is the only way these two will show on the U. S. amateur frequencies.

They abhor pileups as did FB8WG but with more experience they might eventually set out on their own. Right now it is list only.

Look for PY2PE-Eva, KE40C-Frank, J37AH-Don and the multitude about 233ØZ at either 14.235 or 14.220 mhz on weekends. The FB8s have occasionally shown during weekdays, however, weekends are your best bet.

"QSLing Direct." I know! You've heard it before. However, from QSOs I've had with managers and DX with whom I regularly converse, I keep hearing the same old problem—amateurs who QSL with an S.A.E (self-addressed envelope) only.

It seems that some hams actually believe their QSL is needed by the DX as much as they need the DX QSL and, therefore, why should return postage to the DX or manager be required. Who are they kidding?

With the exception of country or prefix hunters, 99% of the DX have enough stateside QSL cards to "paper the walls" and that 500th card from Iowa is just that to the DX, the 500th card from Iowa.

If you want to keep your QSL direct or to a manager, please include return postage or appropriate funds for return postage. Don't expect the DX or manager to foot the bill.

By the time you read this column, HEARD Island will be active. May we all scratch HEARD from our countries needed list.

Gud DXing
de KCØDB

P. S. Congrats to KØKES on the "BY" card. Hey Joe! What's BY? Hi, Hi.

Commentary Corner KEEPING IN TOUCH

By Vic Clark, W4KFC
Honorary Vice President, ARRL
(Vic is now President of ARRL)

Radio amateurs are a curious lot. They thrive on friendship, as do ordinary mortals, but pursue a pastime that, to outsiders, appears reclusive.

Much of their time is spent in the silent and solitary business of studying the manuals and journals, erecting antennas, assembling, modifying and repairing equipment, and checking it out. But it is all for

the ultimate purpose of reaching out and touching others through the medium of radio. In the process they may even establish a personality that differs in some respects from the one projected on personal contact. The heft and quality of their signal, their operating methods and habits, what they say and how they say it, all play a part in how they appear to others on the air.

In earlier times, when transportation was limited, folks used to know their neighbors and rely upon them for social contact and exchanges of services. They were forced by circumstances into a personal relationship with those immediately about them. The alternatives were to become a hermit or abandon the old home town.

But look where the automobile and telephone have brought us. Most folks today hardly know their neighbors. These days they are more apt to reach into other neighborhoods for those with whom they would associate and become friends. In this way, presumably, it is possible to be more selective in developing compatible relationships, seeking out those who share our interests, beliefs and involvements. But we hams have it even better. We are able to shop around the whole country, indeed, the world, for kindred spirits...and that's just the way it works.

"But," one may ask, "do contacts by radio provide a practical basis for making friends?" After all, when you've never seen a person, cannot appraise his manner of dress or personal conduct, how is it possible to establish a level of rapport that qualifies as friendship? An outsider would conclude that claiming friendship with the owner of a disembodied voice from afar (let alone a c.w. fist!) is stretching a point.

Most hams know better.

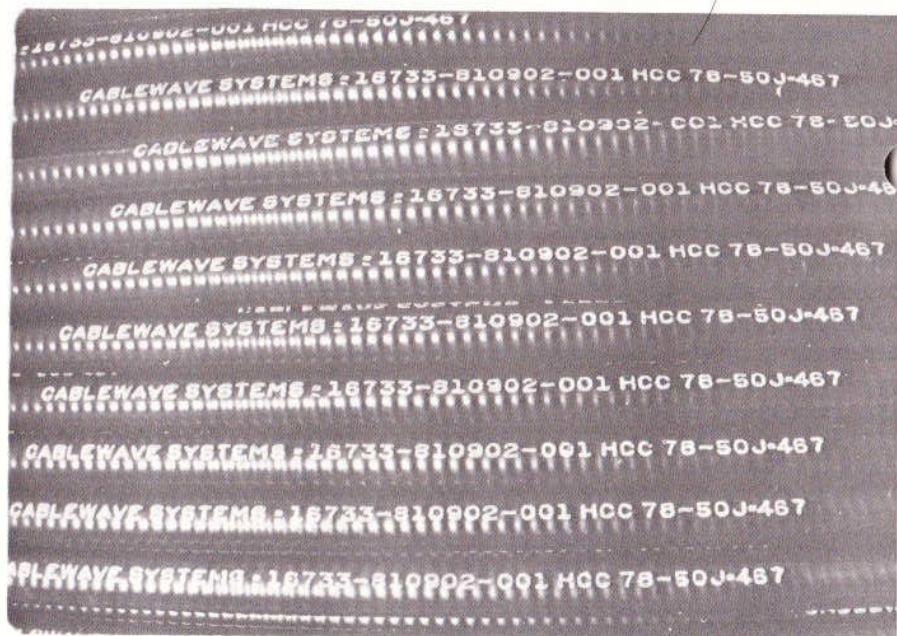
Assuming that you have been a radio amateur for a few years, how many of **your** friends were first encountered over the air? Or, assuming that your first encounter was a personal one at a club meeting or elsewhere, how many of your friendships have ripened and deepened through the medium of on the air contact? Quite a few, we'll wager.

As the years roll by, active amateurs develop an impressive coterie of friends and acquaintances among the faithful. Radio amateurs possess the ultimate mechanism with which to continue these relationships, for they are able, through both deliberate and chance contact, to refresh and update them without the need either for writing a letter or leaving their homes. Moreover, this possibility of continued contact through the years remains alive in spite of changes in address, employment and personal fortune, sustained through the mutual interest in amateur radio. What a priceless resource! We take it for granted, yet, deep down, most amateurs recognize that we are privileged participants in an activity that is unique in the human experience.

Some pundit once said: "Old friends are the only irreplaceable resource the world has to offer." If you buy that logic, then it follows that hams are better off than most folks, for we have a superior means for establishing and maintaining friendships. With us, the chance encounter with old friends can become almost an everyday occurrence.

My own hamhood has produced many examples. I can recall my first contact with Ed Redington, W4ZM, perhaps thirty years ago when I was

ANSWER TO COVER PHOTO



(Continued from Page 15)

out on Field Day and he was at home in Connecticut looking for a ragchew. I wheeled a FD contact out of him and, by that simple act, a personal friendship was launched that lasted until Ed became a Silent Key two years ago. Old Lenny Chertok, W3GRF, and I first chatted by c.w. when we were boys (and both had hair!) across the miles from Phoenix to Philadelphia, commencing a close friendship, initially sight unseen, that lasts to this day. My first encounter with Ethel Smith, K4LMB, was a QSO when she was 18 and signing W7FWB in the state of Washington back before World II...long before she pioneered the founding of YLRL. And how many of today's solid citizens of amateur radio I have had the pleasure of first contacting while they were still novices, struggling with the code! Among my treasures is a "Short Wave Listener" card received from little Johnnie Swafford who heard my signals all the way out in Kansas back when I was a teenager. John is better known today as W4HU, a good friend and prominent member of the U.S. Department of State Amateur Radio Club. And these are by no means isolated examples.

But what about you?

Do you have any interesting stories about friendships made through the medium of amateur radio contact?

If you are an active amateur, you most certainly do. How about sharing one or two of them with us?

73 — Vic Clark, W4KFC

Larsen Kūlrod Antennas

offer amateurs all the advantages enjoyed by the commercial two-way radio field.

The Larsen Kūlrod® Antenna was initially designed to be a superior antenna for the highly competitive commercial 2-way radio market. Today, Larsen antennas are in the forefront for both the commercial and amateur fields because they combine top performance with long range dependability.



Magnetic Mount

Super-Efficient Air Wound Coils.

Larsen's loading coils are air wound for the most efficient transfer of communication energy. No power absorbing coil form is used. The base loading coil, when used, is made of extra heavy wire to stay in position and will not detune with years of use. Cutting the antenna rod, by following the instructions and cutting chart accompanying the antenna, assures lowest V.S.W.R.



Gutter Clamp

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1601 Avenue "D"
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The Kūlrod® Difference.

The Larsen Kūlrod® whip is made of 17-7 PH precision tapered stainless steel for durable flexibility, while minimizing radiation pattern distortion at higher vehicle speeds. It is quadruple-plated with a combination of nickel, copper and chrome for maximum power radiation efficiency. Two set screws keep Larsen antennas double-locked firmly in the base.



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Streamlined Appearance.

Larsen Kūlrod® Antennas are designed for eye appeal with a neat, low profile base that blends with today's vehicles. An occasional wipe with a soapy cloth will keep the entire antenna looking new and shiny. The special platings on mount hardware add to the appearance and keep corrosion build-up to a minimum.

Kūlrod® is a registered trademark of Larsen Electronics, Inc.

AND FOR COMMERCIAL USERS

National Electro Craft, Inc.
3509 Center
Omaha, NE
(402) 346-2126

Omaha Communications Systems
8833 "J" Street
Omaha, NE
(402) 331-8853

Mobile Communications, Inc.
1713 Webster
Omaha, NE
(402) 341-1529

HAM HUM SWAP

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

- FOR SALE: RTTY STATION. Tempo 2020 Transceiver, Speaker, SWR/Watt Meter. TRS 80 Color Computer — 32K extended basic. M.E.G.-1 Terminal Unit/QF-1A Filter Heath Kit HO-10 Scope. Model 28ASR Printer/Extra parts, paper, etc. Programs and cables, books. \$1,500. All mint condition. Sell complete only. Duke WDØEWH, 455-5402.
- FOR SALE: H.F. STATION PACKAGE. Kenwood TS520S, VFO 520, SP520, YAESU Land Liner Patch/Speaker. Dentron GLA 1000 AMP/New Finals. All mint condition. Sell complete only. Duke WDØEWH, 455-5402.
- FOR SALE: Immaculate pair of Kenwood Twins, T-599A, R-599A. 160-10 meters matching speaker all option filters, including a Fox Tango 250hz with filter. Works well, no scratches, etc. \$350 pair. Ameco PT-2 Preamplifier, \$40. Joe Nanos KØKES, 339-7865 after 5 p.m. weekdays or anytime weekends.
- FOR SALE: Drake twins — R4B and T4XB — Speaker/Power Supply and Extra Speaker. R4B just re-tubed and realigned at factory. \$550. Call Jugel KØDG, 572-9491.
- FOR SALE: 7" Reel Stereo Tape Recorder, tube type AMP, \$40. 5B Solid State HF Transceiver, includes 18A Pwr. Supply, Heath 104, \$390. Kenwood 8300 UHF FM Transceiver, 10W Output, 23 Chan Rig has 3 Chan installed, \$225. 75AMP Ferroresonant Reg Pwr Supply, 15 volts FWCT Circuit requires ext. filter cap, 102 lbs., 97¢/lb., Prices negotiable. Rich WAØZQG, 322-7775.
- FOR SALE: WILSON 1402SM 2 METER HANDITALKIE WITH TOUCH TONE PAD BELT CLIP, SHORT DUCK & DESK TOP CHARGER. CRYSTALS AS FOLLOWS: 146.34/94—46.25/85—145.45/144.85—147.96/36—146.31/91—146.52/52—146.115/715—47.93/33. ASKING \$100 (NEGOTIABLE). GARY LONG WD5HYQ, 12223 P. St., Omaha, 895-5407.
- FOR SALE: MODEL 28 ASR TELETYPE UNIT, INCLUDES SELECTOR AND PAPER TAPE UNIT, \$70, YOU HAUL AWAY. GARY LONG WD5HYQ, 12223 P St., Omaha, 895-5407
