



HAM HUM

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



Vol. XXIV
No. 7

July 1974

JULY MEETING

CHANGE IN MEETING DATE CHANGE IN MEETING PLACE

MEETING NIGHT CHANGED — from second Friday (July 12) to
WEDNESDAY, JULY 10, 1974

MEETING PLACE CHANGED — from Commercial Federal Savings and
Loan Association, 4724 South 24th Street, to

COMMUNITY ROOM
COMMERCIAL FEDERAL SAVINGS AND
LOAN ASSOCIATION
1402 South Washington
PAPILLION, NEBRASKA
(Southwest corner 84th Street and Highway 370.)

MEETING TIME — 8:00 P.M.

PROGRAM — LASERS—THE LIGHT FANTASTIC
This program will consist of a live demonstration
given by Larry Suder. Mr. Suder is employed at
Northwestern Bell Telephone Company as a
construction supervisor. He has a BS degree from
the University of Nebraska at Lincoln and is a
mechanical engineer.

REFRESHMENTS — EYEBALL QSOs — VISITORS WELCOME

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.



Next copy deadline: July 19th

Annual Dues:

Regular member \$7.50
 Regular member and XYL 9.00
 Student member 3.50
 (due and payable each Jan. 1)

Published by

AK-SAR-BEN RADIO CLUB, INC.
 Post Office Box 291
 Omaha, Nebraska 68101
 Editor: Dick Eilers, WØYZV
 Phone HOME: 391-2255
 BUSINESS: 342-1402 - EX. 200
 Associate Editor: John Snyder, WØWRT
 Phone HOME: 556-1538
 BUSINESS: 397-3000 - EX. 3761
 Associate Editor: Ervan Heinz, WAØEEM
 Phone HOME: 553-2033
 BUSINESS: 553-4700 - EX. 331

New member initiation fee \$1.00
Quarterly for balance of year:
 Regular member \$2.00
 Regular member and XYL 2.45
 Student member 1.00

FORMER MEMBER NEWS

6-10-74

It was fun to see so many familiar faces at the June meeting. Having been gone for 12 years, I was surprised at how many people I still knew.

I found out about the meeting by accident during a QSO with Art, WØFQB, on 75. Lucky contact!

73,
 Dick Reimund
 W5TVF (ex-WØLFM)
 Box 218
 Booker, Texas 79005

BELLEVUE REPEATER

For those who are unaware, the Bellevue repeater is operating on 146.04-147.30, as WRØABA.

Pete Mahowald, WBØGOM
 Randy Curtis, WBØDDZ

RECENT CONTRIBUTORS

Repeater Fund

Cecil D. DeWitt, WØRMB
 Donald H. Filbert, KØAJO
 John D. Snyder, WØWRT
 Leo I. Meyerson, WØGFQ
 Charles B. Wolfmeyer, WØKHM
 Robert H. Fricke, WØPOL
 Elmo (Bud) M. Moist, K8QKT

Autopatch Fund

John A. Cook, KØWVF
 Donald H. Filbert, KØAJO
 Leo I. Meyerson, WØGFQ
 Robert H. Fricke, WØPOL

All contributions sincerely appreciated and we thank these repeat contributors.

Joy not shared is only half enjoyed.

JUNE MEETING

The June meeting was held on Tuesday, June 4th, rather than the second Friday of the month because of our special guests Paul Grauer, WØFIR, Director Midwest Division ARRL, and Lewis G. McCoy, W1ICP, Beginner and Novice Editor QST. The meeting began at 8:00 P.M. with the Pledge of Allegiance.

Repeater rules were brought up again concerning emergency traffic. It was announced that on Field Day the 34/94 repeater would be shut down in order to test the "Porta-Peter" built by Marty Griffin, WAØGEH. After the repeater announcements, Bob Lockwood, WAØDHU, explained that a simulated emergency exercise would take place soon and that the AREC list had been updated and new rosters were available.

The rest of the meeting was put to good use by Paul Grauer and Lew McCoy. Paul talked about various amateur activities happening around the Midwest, and then he introduced Lew McCoy who told us what the FCC was up to and about some proposals that were being looked upon by the FCC.

Because of our two distinguished guests, the June meeting was a great success. To those of you who missed it, you missed a very informative and amusing program.

Pat Scolla, WBØEGR

Stumbling Blocks and Stepping Stones are the same things; the difference is how you use them.

WANTED—NEW MEMBERS!

A new Membership Roster was recently mailed to members of the Ak-Sar-Ben Radio Club, Inc.

A suggestion—why not use it as a handy "check-list" when rag-chewing with other local hams?

As you log each QSO, scan this roster to see if your contact is a member of the Club. If not, invite him to attend the next meeting . . . take him as your guest . . . introduce him to those present . . . then urge him to join our ranks.

With a little encouragement from those of us who know how valuable this companionship and exchange-of-ideas can be, any regional ham should be glad to share these benefits while also willing to help underwrite the cost of maintaining our facilities.

Let's each set a goal of signing up one new member during the next 30 days. Remember—every contact you make on the air provides you with a potential "customer"!

ROSTER CORRECTIONS

Change in call from WNØHTP to WBØHTP for John T. Curran. Congratulations, John!

Correction in phone number for Arthur R. Gaeth, WØFQB, from 455-6882 to 455-3769. Sorry, Art!

Change in street address for M. J. (Jack) Prall, WØODL, from Apt. 7B Nottingham Court to 1301 South 10th Street, Plattsmouth 68048. Thanks for the info, Jack!

FIELD DAY 1974

By—Bob Lockwood, WAØDHU

Field Day 1974 was conducted Saturday and Sunday, June 22nd and 23rd, at the Norval Bowen site overlooking the Platte River. WAØVEE, Russ and WBØBMV, Mike were co-chairmen for this event. The 20 meter ramrod was K5TNP/Ø, Jim; 40 meter, Mike, WBØDXA; 15-75 meter, WAØWRI, Joe; 6-2 meter, Frank, WAØIWF. The novice shack ramrod was Bob, WNØLYU. This was one of the most well-planned Field Days I have seen and the respective leaders certainly deserve recognition for time and effort which resulted in one of the best Field Day setups this Club has seen.

The participation by individual hams was great with many taking an active part. I wouldn't want to guess at the number, but the figure is over 50.

The six meter boys had a bonanza this year using the Club's wide-spaced telerex beam on the club tower and a band opening which lasted until about midnight. About 300 contacts were the result. 20 meters had a 4 element monoband beam. I don't know how many contacts they had but WØEQU/Ø commanded with a whop-ping signal on 20. 40 meters used a 40-meter inverted V Drake and Kenwood equipment for over 300 contacts. 15-75 had WAØWRI's GT-550, a 3 element 15 meter monobander, dipole, and a 75 meter inverted V for 570 gross contacts. The novice shack looked like HI Industries. They had a huge rig backup, taking no chance on Murphy. They had separate 15,40,10 and 75 meter dipoles. The 10 meter unit was at a staggering height

of 6 feet, yet during Saturday evening's 10 meter opening they had a field day. Over 100 contacts were raked in by the novice shack. They showed us how!

I would estimate the total number of contacts to be near 2000 gross which should be a record. With emergency preparedness on the spotlight, Field Day '74 shows that in a time of need Omaha would not be without communication, be it on a local, regional, national or worldwide scale. The voice of WØEQU would be heard!

NOTES FROM MEMBERS

Hi Dick:

Enclosed is check as donation to repeater and autopatch funds.

Enjoyed the meeting the other nite and hope to attend more. You do a good job on Ham Hum.

73,
Leo

(Ed. Note: Thanks for the check and your kind words, Leo.)

NEWS FROM FORMER MEMBER

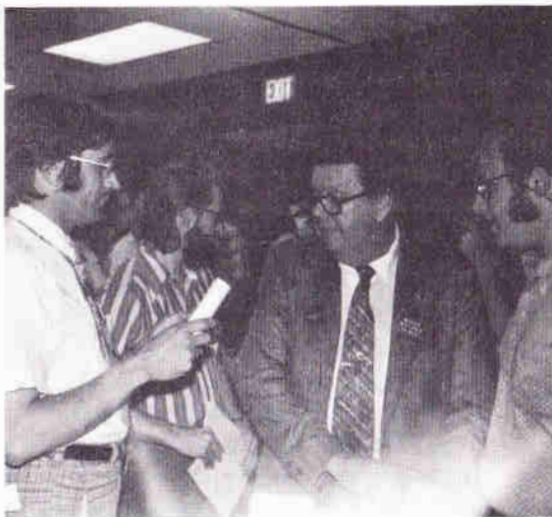
Henry Velte, W5ABI (Ex-WØABI) says Hi to all the members of Ak-Sar-Ben Radio Club.

He now lives at Conway, Arkansas. Anyone wishing to work Henry can find him at the top end of the forty meter band.

From Erv Heinz, WAØEEM

Here are some pics shot at the June 4th meeting.

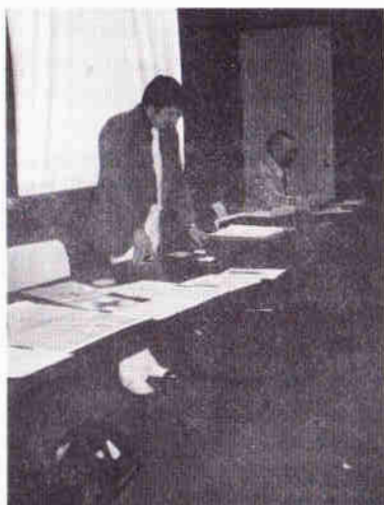
It was a very informative meeting, I attended. My comment is, "All nice things have to end too soon."



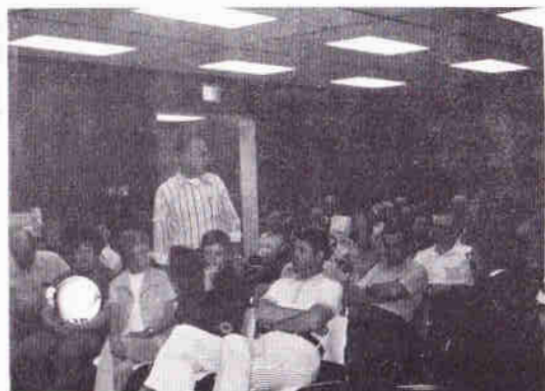
Lew McCoy, W1ICP, (center) fielding questions



Paul Grauer, WØFIR (Dark suit, front row center)



President Rip, WBØGAJ, and Treasurer Kelly, WAØUZX



Russ Minks, WAØVEE, (standing) discusses Field Day

AREC NEWS

By—Bob Lockwood, WAØDHU

Two simulated emergency tests were conducted in June. The latest was conducted Thursday evening, June 27th, with the net called at 1900 CDT.

Purpose of the event was to test our skills in the art of initial survey teamwork for the Red Cross disaster team and to determine areas where we can develop more efficiency and accuracy as a survey team.

The net was called by John, WBØCMC, with Bob, WAØDHU, also at control center. Among mobile stations who reported to the simulated disaster area at Jefferson Street from 72nd Avenue to Madison Avenue at 1913 was WA7JYO/Ø, Bob (Bob is E.C. for Cheyenne, Wyoming and is on vacation in the Omaha area; he assumed the position of Field Coordinator, and did a nice job.) Other mobile units and their arrival times include 1914, WAØWRI, WBØGAJ, WAØGEH; 1922, WBØGOM; 1929, WØKCK, WØYZV, WAØHKT; 1938, WAØZUR; 1941, WA7VVA, W5GAQ, K5QJG; and 1953, WAØPCC. Also WBØGQT was on the scene. Several base stations checked in and remained on standby status.

When they arrived at the scene, the mobile stations found a construction site with houses at varying stages of development. They also found a boy scout group who were simulated injured victims. Their injuries ranged from fatal to a broken heart. The broken heart patient was cured when he was introduced to the girl down the block. Hi! Hi!

The survey team did an excellent job reporting in the victims and the simulated damage to the area. Those

first on the scene conducted the initial survey and later a second team consisting of the later arrivals was initiated so that everyone on the scene had survey experience.

The event was highly successful thanks to a fine job by WBØCMC as NCS, WA7JYO as Field Coordinator, and all who took the time and effort to participate. AREC Douglas County is on the move training for something we hope will never happen but we are ready.

IN APPRECIATION

Many thanks to the Ak-Sar-Ben Radio Club for the Code and Theory classes. John Curran, WNØHTP, became WBØHTP on June 1st with the arrival of the Technician Class license. Five days later on a trip to Kansas City he passed the code requirements for the General Class license. Many thanks for helping make a 20-year-old dream possible.

John, WBØHTP

MEMBER NOTES

You probably have a gold mine in your basement and don't realize it. It is called your junk box. At current prices all those resistors and capacitors are a gold mine. Think of the replacement cost if you purchased new items for each project. I know I could do a lot of mining!

Charlie, KØQVL

PRESIDENT'S REVIEW OF FIELD DAY

The Field Day activities of 1974 for the Ak-Sar-Ben Radio Club were characterized by contrasts: things that went well – things that didn't. On balance, with the perspective that a week's hindsight allows, I believe that 1974 will be viewed by many who participated (and some who wish they had) as one of the all-time best!

A great deal of credit for the overall success of the operation is due Russ, WAØVEE, and Mike, WBØBMV, for the fine organization and preparations made as co-chairmen for Field Day.

Thanks are due to all the tent chairmen also for organizing and executing their part of the activity.

And of course a special note of thanks to Ol' Sol for doing whatever it does to get the propagation up as well as it was over the weekend.

So what does the balance sheet for the Field Day look like? Let's contrast a few aspects of the overall performance.

The WX during the day was excellent but it got a little chilly at night. We had no equipment failures of any consequence but did not get an OSCAR-6 ground station into operation. Six meter operation was fantastic on Saturday but fell flat on Sunday (don't be greedy!). Twenty and fifteen meters were open all night – so who looked at 10 meters which was also open? The beam on 20 performed great – once it got up on the tower (there were some moments up there at 30' that I had some serious doubts as regards the prudence of lifting that 90 lb. monster 204BA over my head in 20-25 knot winds). The fifteen meter beam worked well –
July 1974

once the shorted coax was replaced (any of you guys ever hear of a VOM?). The novice shack turned in a premier performance on 40 (20, 15, 6, 2 HI!).

The turnout was excellent – but who invited the REACT dudes? (I could tell right away by the color-coordinated sweatshirts and the overload shocks in the camper to keep the linear level!)

The press coverage was great (for the Ak-Sar-Ben C. B. Club) and we got a nice page in the Sun (a place in the Sun?). Somebody, me for instance, should explain to Lee Terry that not every antenna is a C.B. antenna! We got more QSOs this year than in recent memory, but then so likely did everyone else. And by the way, we'll take it on the chin for not providing adequate log sheets. The site was tidy when we left – but only after a couple dozen "pull-tabs" were policed up. Next year we put up signs to remind the litterbugs.

A special note to all who participated. Do you know that dull purr that you heard in the background? The generator that purred along without a cough – that lit the filaments and powered the finals? That purring and non-coughing was due totally to the extraordinary efforts and talents of one individual, namely, Ed Eichler, WBØBCB. Ed just about completely rebuilt the engine of our vintage generator, donating his time to the benefit of the Club. Thanks Ed!

So on the balance sheet we see that the positive aspects strongly outweigh the negative. My congratulations to all who made 1974 the best Field Day.

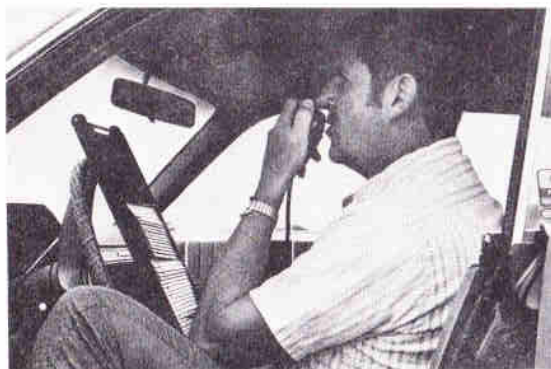
Rip, WBØGAJ
President A.R.C.



Connie Bowen, W0MYF; Lynn Blesh, WA0ODH



Mike McAllister, WB0DXA, and unidentified logger



Charlie Bird,
WB0FTU

1974 FIELD DAY PHOTOS

Courtesy Jim Belt, WA0JIH

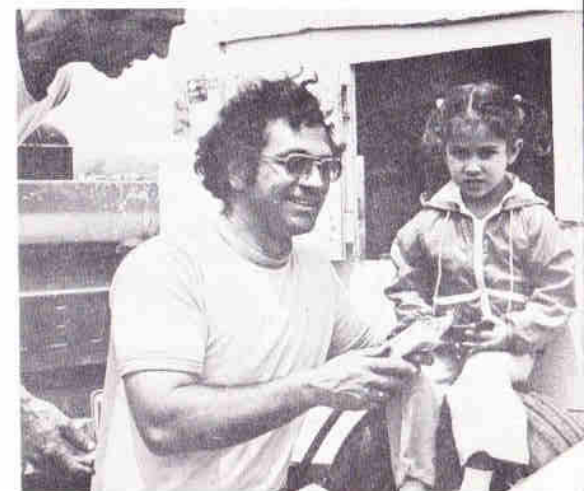
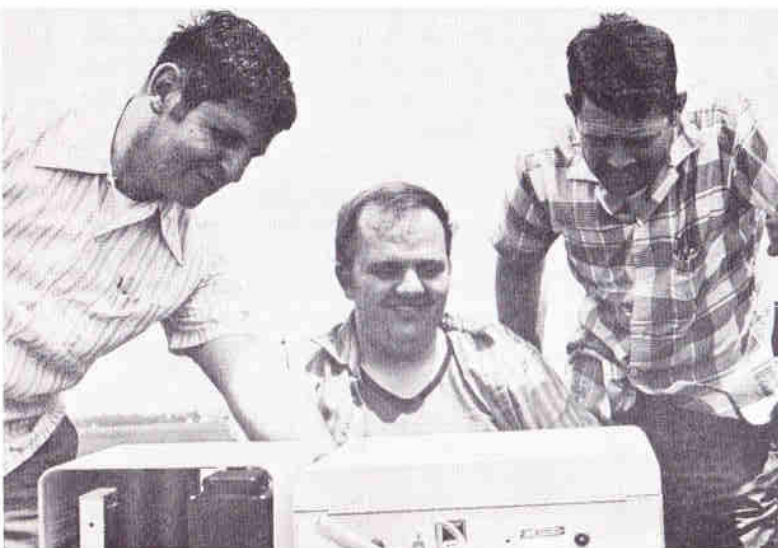
Raising mast for inverted V antenna



Harold F. Jacobs, K0JBC

Left to right: Charlie Bird, WB0FTU; Jay McAleer, WA0LLQ;
Jim Howard, K5TNP

Left to right: Mike Wilczynski, WB0BMV;
Ed Eichler, WB0BCB, and daughter Stephanie



SPECIAL ANNOUNCEMENT

Ak-Sar-Ben Radio Club President Rip, WBØGAJ, has announced the formation of the President's Special Advisory Group. This select group of individuals shall be appointed by the Club President for the specific purpose of:

1. Providing information inputs not otherwise available.
2. Providing special task force support for short-term assignments.
3. Expanding and enhancing contact between members and the Club Officers through the President.
4. Providing recommendations on special technical aspects (e.g. TVI, repeaters, AREC, etc.).

It is the intent this group be diverse in interest but have a unified focus — HAM Radio. Each member chosen shall have the distinction of being an expert in his field. The members of the group shall be tenured for the term of the President who appoints them and will in all cases be senior club members (if not in years, then talent and initiative/enthusiasm, i. e. participation).

The Special Advisory Group shall not in any way lessen the responsibilities, prestige, or contact with the President of the Board of Trustees. Board members will continue to be Club elected officials with primary responsibility for determining the course, financing and management of Club activities. The Special Advisory Group will supplement the Board in specific, and mostly technical tasks. Short-term tasks, studies, inquiries, coordination efforts, and public relations shall be the grist of the group's mill.

It is hoped that future Presidents will continue this precedent with group selectees of his (her) own choice, but the option rests with that individual as the Club's Charter makes no such group mandatory.

The first selectee for this President's Special Advisory Group is Marty Griffin, WAØGEH. His area of expertise is VHF and his broad talents fit all the requisites set forth for appointment.

Subsequent appointments to this elite group shall be made in next month's Ham Hum.

June 25, 1974

Re Membership Roster

Hey, your proofreader goofed by allowing Rollie Fried, WØYMU, telephone number to be terminated also at my QTH. I hope he will pay half the bill. In case he gets any calls for me I hope he will yell out his window and let me know, as we are that close. Hi.

My correct telephone number, which has been the same for 48 years, is 455-3769.

73,
Art Gaeth, WØFQB

P.S. WØYMU is portable Ø in Shawnee, Colo. for the summer at his mountain home there, so I'm isolated from any phone calls I guess.

The man who is always looking down his nose gets the wrong slant.

—Service

May 28, 1974

Ak-Sar-Ben Radio Club, Inc.
Box 291, Downtown Station
Omaha, Nebraska 68101

Gentlemen:

Enclosed please find my check which is a donation to your Auto-Patch and Repeater projects.

Accept my appreciation for your efforts in these two fine projects and for making these services available to some of us "outsiders."

73,
Robert H. Fricke, WØPOL
408 North 12th Street
Ashland, Nebraska 68003

(Ed. Note: Thanks for your generous donation. We appreciate it!)

NEW MEMBERS ADDITIONS TO ROSTER

Jack T. Barnett, WAØCMK
3538 - 8th Avenue
Council Bluffs, Iowa 51501
Phone: 322-6209

John P. Bergmann, WNØMFL
424 North 5th Street
Plattsmouth, Nebraska 68048
Phone: (402) 296-3932

Russell F. Crenshaw, WØYWD
10922 Prairie Village Drive
Omaha, Nebraska 68144
Phone: 393-8535

Mark M. Ellingson, WNØMFP
214 North 6th Street
Plattsmouth, Nebraska 68048
Phone: (402) 296-6233

July 1974

Richard W. Harper, WBØMWB
6920 North 16th Street, Lot 86
Omaha, Nebraska 68112
Phone: 453-7355

Stephen R. Hutchinson, WNØGTJ
2104 Alberta Avenue
Bellevue, Nebraska 68005
Phone: 734-3296

Joseph A. McCool
1805 Avenue B
Plattsmouth, Nebraska 68048
Phone: (402) 296-2809

Donald Sachnoff, WA9BVT
9429 Ohio Street
Omaha, Nebraska 68134
Phone: 397-5712

Charles B. Wolfmeyer, WØKH
3525 North 81st Street
Omaha, Nebraska 68134
Phone: 571-2234

May 30, 1974

Ham Hum Editor:

These comments are probably a little late for the May/early June edition, but will be valid for next edition.

1. As a new member, I'm impressed with the quality of the meetings and the club activities.

2. I urge all club members to express their views on the 220 MHz grab (it will come up again for sure) to Congress, if they haven't already done so.

Dave Wells, K5QJG/Ø
12332 South 35th Street
Omaha, NE 68123

OVERHEARD WHILE READING THE MAIL ON TWO-METERS!

The following is a transcript of a recent QSO overheard and recorded by your Editor while reading the mail. The words are those of Don Filbert, KØAJO:

"After nine months of operating on two-meters, I have come to the conclusion that the FCC regulations are far too liberal. Use of this band should be restricted, for all practical purposes, to those who are either (a) a graduate electrical engineer, or (b) wealthy enough to maintain on his permanent payroll a staff of experienced radio repairmen.

"Don't misunderstand me. I am glad that Al McMillan (WØJJK), the genial owner of Hobby Industry, is now able to retire. And those owning stock in Radio Shack no doubt are grateful that it has doubled in value.

"But the constant cost of purchasing new equipment, and repairing the old, has posed a real problem. Where will I put my fixed station when the bank forecloses the mortgage on my home? How will I work mobile when my car is repossessed?

"With the hope, however, of floating another \$5,000 loan from the XYL's uncle, I was still determined to master this FM Frankenstein monster . . . until just last week. On that fateful occasion, Mel Amick (WA7VIL) stopped by to help me experiment with vodka and other chemicals and offered, while imbued with the spirit (among others!) of good fellowship, to make a few modifications in my ham shack.

"What actually occurred in that process is misty in both our memories. I seem to remember him hooking up my Clegg to the deepfreeze, and my Regency to the electric dryer, which he vehemently denies. But, while firmly maintaining that he carefully replaced every cable in its original position, he admits he cannot explain why four sections of coax were left over!

"Suffice it to say the Regency now fails to transmit even the sound of its own squelch. The scanner will receive only Cecil's (WØRMB) voice, and the Clegg pins the needle in a deflecting position when its mike is activated, although the heat it radiates is enough to replace the furnace if I can just keep it going until winter.

"Whether or not Mel also climbed the tower to 'fix' my antennas as well as my rigs is something which neither of us quite recalls. But, knowing his reputation for thoroughness, I suspicion that he did.

"In any event, I sleep a bit better at night knowing that this electronic genius is *operating* the SAC aircraft radios rather than repairing them!

"Fortunately, I think I retrieved my handheld Tempo from him before he could carry out his efforts to boost its output to 1,000 watts. Content to salvage even one rig from his demolition derby, I am grateful to have this one last means of contacting my two-meter buddies.

"I am now talking to you over this rig *** so that ***** will (transmission concluded with series of cracklings and one, loud, ear-shattering explosion)."

(EDITOR'S NOTE: Concerned that Don might have suffered bodily

damage — either by accident or self afflicted — we called him on the landline to inquire as to his welfare. He requested we insert the following advertisement in HAM HUM, although any contacts with him will have to be made by carrier pigeon since he has now also disconnected his telephone.)

WILL TRADE: One Clegg 27-B, one Regency HR2-B, one Regency scanner, one 84-foot tower with DX-120 and Ringo Ranger antennas, together with other assorted equipment all in various stages of disrepair, in exchange for one revolver in working order and one bullet of same calibre.

FUTURE OF DOUGLAS COUNTY AREC

By—Bob Lockwood, WAØDHU

Douglas County amateurs have come a long way in the last year with training for the Red Cross disaster team and tornado watch activity. However, we are just getting off to a good start.

Later on this summer we plan to have a simulated emergency test which will involve most of the Red Cross departments. This will be a big one and will be a real test for us as communicators. It will also give the Red Cross people a chance to test as well. From the experience, we hope to gain a very efficient disaster team.

A teletype system is being organized to link Omaha and Lincoln on 2 meters for the purpose of handling a large bulk of traffic if the need should arise. Under this system, should Omaha have an emergency, Lincoln would handle the health and

welfare allowing Omaha to concentrate on its immediate internal communication need. If Lincoln should have the emergency, Omaha would take the responsibility of the bulk traffic. RTTY is a very efficient mode of bulk traffic and we should take advantage of it.

In early fall we will take a First Aid course at the Red Cross Chapter House. Think about it now and make plans to take advantage of this course. Remember, he who knows first aid can save many lives. This is our one most important priority. We must be ready if the need arises.

AREC in Douglas County is on the move, thanks to the efforts of individual amateurs to become trained. We stand ready to take care of emergency needs in the Omaha area as well as to be ready to give assistance to the surrounding area if there is a need. We are on the move!

NEW NEBRASKA SCM

6/10/74

Newly elected Nebraska SCM is Claire R. Dyas, WØJCP, of Lincoln.

My sincere thanks to all those who have given me their support the past six and a half years. I hope I have served you well.

73,
Tony, KØOAL
Ex-SCM

(Ed. Note: All of us at Ak-Sar-Ben Radio Club thank you for your services, Tony.)

MEMO TO WOULD-BE HELPERS

By Rip, WBØGAJ

If you are not familiar with directed net operations and traffic handling, protocol, etc., one of the worst things you can do is practice during a real world emergency, vis-a-vis, the recent tornadoes in the Des Moines area. Tom, KØPQR, was almost literally caught up in that mess while passing through the area. He participated in the emergency operations on 2 meter FM and reports that the confusion caused by well-intending newcomers to the emergency net did not in all cases balance the value of their participation.

There is a lesson to be learned here. The time to practice net operation is before disaster strikes, e.g., 2M AREC net, 34-94, Tuesdays at 2000 hours local. Or to see what traffic handling is all about, for two bits you can get "Operating an Amateur Radio Station" at Hobby Industry. This excellent ARRL pamphlet should be in every shack whether novice or extra!

We strongly encourage every Ham to investigate the various aspects of emergency communication and to polish your procedures *before* it is necessary to employ them "for real."

When monitoring an emergency net, whether it is practice or real, there can be little doubt to even the casual observer who the communicators are and who the would-be communicators are. The major distinguishing characteristic of Ham Radio among other two-way radio services is the PRIDE with which its adherents transact the business of "Hamming." Communicating in a professional and mature manner with knowledge of net

protocol and emergency operations has got to be THE major responsibility of every Ham and requisite to the maintenance of his personal pride in his station and operating procedures.

Make sure that you can take legitimate pride in *your* operations! Get to know what goes on in net operations and watch your pride grow. The benefit to be gained is yours, but will "propagate" throughout the Amateur Fraternity.

AREC FOOTNOTES

By President Rip, WBØGAJ

The groundwork has been laid for a unique and sophisticated multimode emergency traffic system between the Lincoln area AREC and Omaha area AREC groups.

The keystone of the project is a 2 meter Simplex RTTY link between cities to relay, process and disseminate Health and Welfare Traffic in time of disaster. The effort will be in direct support of Red Cross activities in both metropolitan areas.

Channels of communication contemplated (and tested) include 75 meters, 6 meters, 2 meter FM (34-94, 16-76) and 146.70-70.

Stations participating in feasibility studies include WAØDHU, WBØGAJ, WAØASM, WAØHNW and others.

Overall philosophy of the system is to route long haul H & W traffic into the non-affected area for relay to the affected area via RTTY where inquiries can be fielded. A statement of the overall plan of operation will be jointly issued by the Lincoln Log and Ham Hum in the near future with comprehensive details provided to AREC participants.

HAM HUM SWAP

WANTED: To borrow or copy, manuals for RCA model WV-97A Voltohmyst; also manual for Philco model 7019 Junior Scope.
Contact Mark Ellingson, WNØMFP, 214 North 6th Street, Plattsmouth, Ne 68048.

FOR SALE: Motorola HT-200 with case; 2 meter handitalkie; 146.34/94, 16/76, 76/76 4 channel with charger; \$250.00. John Ferrel, WØYDV, 6401 North 39th Street, Omaha, NE 68111. Phone: 455-5451.

FOR SALE: Heath linear SB 200, mint condition. Priced for quick sale. Call Bob, KØOQL, Home: 457-4237, Bus.: 221-3374.

FOR SALE: Receiver R-274D/FRR 540 KHz to 54 MHz; 2 rf and 2 if stages; dual conversion above 7 MHz; Military version of Hallicrafters Model SX-73. Fair condition. \$125.00 (In estate of KØMSS.) Contact HAM HUM, Box 291, Omaha, NE 68101 or WØYZV.

FOR SALE: Knight T-150 Xmtr., mint condition. 80-40-20 Transceiver with power supply. John Penner, WBØGQT - Phone: 571-5076

NOTES FROM READERS

27 June 1974

Folks:

Enclosed is check toward Ham Hum which I have been getting for a couple of years.

I am adding a contribution for the repeater fund. After all, I use it twice a year at 2:30 AM, railroad mobile!

Bud, K8QKT

(Ed. Note: Nice to hear from you, d and thanks for contribution!)

Hard work is an accumulation of easy things you didn't have time to do when you should have.

-Service

The ham with the '74 model 400 inch V-8 with full pollution control gizmotchies, a 100 Amp alternator, and a full gallon rig stopped at the gas pump and left the engine idling as he asked the attendant to fill 'er up. A minute or two passed and the attendant asked him "Say buddy, how's about shutting off the engine, you're gaining on my pump."

de HARC News

Did you know that a Bird VHF wattmeter/dummy load connected to my DX-100 shows downward modulation when you blab into the stupid thing while a light bulb will show up-modulation? Do you care? (A Genuine Filler)

de PAARA News,

Palo Alto, Calif.



**Hobby
Industry**

SPECIAL

Atlas - 180 SSB Transceiver	\$479
AR-117 Power Supply	\$119
Mobile Mounting Bracket, Deluxe Plug-in model	40
Mobile Mounting Kit, non-plug in	10

Atlas-180

SOLID STATE SINGLE SIDEBAND TRANSCEIVER



**180 WATTS. . . 20-40-80-160 METERS. . .
ALL SOLID STATE. . . MODULAR CONSTRUCTION. . .
NO TRANSMITTER TUNING.**

GENERAL SPECIFICATIONS

- **Band Coverage:** 20, 40, 80, and 160 meters.
- **Frequency Ranges:** 14,000-14,350, 7000-7350, 3700-4050, 3500-3850, 1800-2000 kc. (Crystal oscillator accessory extends frequency range for MARS operation.)
- **All Solid State:** Includes 4 I.C.'s, 17 transistors, 26 diodes.
- **Modes of Operation:** SSB (selectable USB or LSB), and CW
- **Frequency Control:** Highly stable VFO, common to both Receive and Transmit modes. Tuning dial calibrated in 5 kc increments with easy interpolation to 1 kc. Tuning rate is 15 kc per revolution.
- **Circuit:** Broadband design eliminates transmitter tuning. Single conversion from I.F. to output frequency. Includes ALC and infinite VSWR protection.
- **Power Rating:** 180 watts P.E.P. input, and CW input. (50 ohm resistive load 13.6 volt D.C. supply.) Power output: 80 watts minimum P.E.P. and CW. (100 watts typical.)
- **Sensitivity:** Requires less than 0.3 microvolts for 10 db signal-plus-noise to noise ratio. (Typically 0.2 uv.)
- **Selectivity:** Crystal lattice filter at 5520 kc. 6 db bandwidth: 2.7 kc. 60 db bandwidth: 4.6 kc. (Shape factor: |1.7.) Ultimate rejection: 110 db.

- **Image Rejection:** Better than 60 db.
- **Internal Spurious:** Less than equivalent 1 uv signal.
- **AGC Characteristics:** Audio output constant within 4 db with signal variation from 5 uv to more than 3 volts.
- **Power Supply Requirements:** Operates directly from 12-14 volt D.C. source, negative ground (standard automotive electrical system). Draws 0.2 to 0.4 amps. in receive mode, 16 amps peak in transmit mode. (Atlas models AR-117 and AR-230 desk top power supplies are available for AC operation.)
- **Front Controls:** Tuning Dial, Dial Set, Function Switch, Band Switch, A.F. Gain, R.F. Gain, Mic. Gain, Sideband Selector, Calibrator Switch, Dial Light Dimmer.
- **Finish:** Vinyl Covered Steel. Durable and scratch resistant. Black.
- **Dimensions:** 9 1/2 in. wide, 3 1/2 in. high, 9 1/2 in. deep, overall.
- **Weight:** 8 lbs., net. Shipping weight: 9 lbs.

CALL: Tues. / Sat. - Noon / 5PM
A1 McMillan W4JJK
(712) 323-0142
WRITE: HOBBY INDUSTRY
Box 864
Council Bluffs, Iowa - 51501

