



HAM HUM

Published by
AK-SAR-BEN RADIO CLUB, INC. - Omaha 1, Nebr.
Post Office Box 291 - Downtown Station



Vol. XIV
No. 8-9-10

October 1964

NEXT MEETING - AUCTION

TIME: 7:00 P. M. WITH AUCTION
BEGINNING AT 8:00 P. M.
DATE: FRIDAY - OCTOBER 9th
PLACE: 4-H BUILDING, AK-SAR-BEN FIELD.

The next meeting will be the annual auction. The official starting time will be 7:00 P. M. so that everyone will have a chance to check in the gear you bring and to look over the rest of the gear before the auction starts.

Clean out your ham shack and bring your excess gear to the auction. Here is a chance to dispose of the gear you don't need and to secure some gear that you have been wanting to get at a reasonable price.

The usual rules will apply - the Club Treasury will get 10% of all transactions. If you wish to state a minimum price on your gear you may do so.

AND IN ADDITION - we have had on several occasions to get a very interesting film from Collins Radio. We finally were able to schedule it for this meeting and I am sure all in attendance will find it interesting. Sorry we do not

have the exact title of the film, but it concerns Collins Engineered System of Communication.

Meeting will close with usual refreshments.

PICNIC

Members of the Ak-Sar-Ben Radio Club, Inc. with their families and friends enjoyed another annual picnic on Sunday, September 20th. The picnic was held at Beaver Brook Farm with about 85 in attendance. Weather was a little on the damp and chilly side which undoubtedly accounted for the unusually small number attending.

Some mighty nice door prizes were awarded to the lucky winners. The menu consisted of hot dogs and buns, baked beans, potato chips, ice cream, coffee, and pop. Our special thanks to the picnic committee and to all those who assisted.

Picnic photos will be found elsewhere in this issue. Hope to have more photos by next month. Please send in yours.

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.



AREC

The Section Emergency Coordinator (SEC) for Nebraska, Larry Abbott, KØJXN, is organizing the Nebraska Section of the Amateur Radio Emergency Corps (AREC). He must appoint an Emergency Coordinator (EC) for each county, and needs one for Douglas County. He has asked that we find someone for him.

The EC must be a member of ARRL and should have capabilities for reliable contact with other AREC officials in the State on the Nebraska long haul emergency frequency of 3982.5 Kc. He will need to appoint his own Assistant Emergency Coordinator (AEC) who will be in charge of assigned special functions, such as a short haul network on a specified band.

EC and AEC appointments are good for one year. If you are interested, contact Larry Abbott, KØJXN, or send the information on the enclosed card to P. O. Box 291, Omaha. We would like to have representation and participation from this area on SET the first week end in October. See September QST.

Published by
AK-SAR-BEN RADIO CLUB, INC.
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Omaha 1, Nebraska

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Ak-SarBen Radio Club
Omaha, Nebraska

Dear Sirs,

We are most grateful to all the members of your Club for the many gifts contributed to our children through Mrs. Louise Pickert.

You have no idea how much pleasure you have given to these little handicapped youngsters who are entrusted to us for care.

We have had seven little girls (rheumatic fever and heart patients) who are on bed rest this summer, and dolls with their lovely wardrobes made by our "Grandma Lou" have delighted them and kept them contented to stay in bed.

The toys, games, books and novelties have made all the youngsters happy.

We appreciate the kind generosity of the members of your Club for all these gifts - our sincere thanks to all of you.

Sincerely,
Mrs. Katherine Sittler
Assistant Director
Hattie B. Munroe Home

FIELD DAY - 1964

"IT COULDN'T HAPPEN TO NICER PEOPLE"

The title of this article refers, of course to The Sioux City Amateur Radio Association and the Bellevue Amateur Radio Club, our neighbors and friends to the North and South, respectively.

We can't say that we were not warned; in fact an article in the last issue of HAM-HUM written by one of our "Away from Home" members predicted that Sioux-Land Hams would really be out to clobber us; they did! This energetic and very

active Club just about threw the entire Call Book at us. This is their third consecutive victory over Ak-Sar-Ben in the three year series of Field Day Competitions which began in 1962. This assures them of permanent possession of the Trophy Cup, and we can only, on bended knees, ask them to bring it down and let us have one more look at it before they lock it up in their Trophy Case. CONGRATULATIONS, SIOUX CITY!

BOX SCORE Sioux City

Band	Nbr Stations Worked	Multiplier	Point Score	Mode
145 mc	12	3 x 3 (10 watts)	108	f 3
21 mc	282	3 x 2	1692	a 3
21 mc	10	3 x 2	60	a 1
14 mc	284	3 x 2	1704	a 3
14 mc	245	3 x 2	1470	a 1
7 mc	23	3 x 2	138	a 3
7 mc	267	3 x 2	1602	a 1
3.9 mc	196	3 x 2	1188	a 3
Field Day Message		3 x 2	150	
Totals	1329		8100	

The 3x2 Multiplier refers to all transmitters operated at power levels below 150 Watts, and all power obtained from Club operated Power Plants. Their Generator was Gasoline Powered. 7½ KVA.

Several months ago this writer was invited to be a guest speaker at a meeting of The Bellevue Amateur Radio Club, and when the members of that group found out that I had been appointed Chairman of the

Ak-Sar-Ben Field Day Activities, they threw a Field Day Challenge at us. Being mighty proud of Ak-Sar-Ben and feeling full well that we would have no difficulty in topping them I unhesitatingly accepted their Challenge, and offered to put up the necessary Do Re Me for purchasing a Plaque (one-half of the total cost) to be awarded as a Trophy to the winner. I felt that we could set the "Squelch" Control on

FIELD DAY - 1964 - continued

their activities, but all I can say now is: "Woe is Me". We are bowing humbly and want to extend to Bellevue our sincere congratulations for

a good job, well done. (Note to Bellevue: We'd like to see the Trophy at one of our regular meetings).

BOX SCORE Bellevue

Band	Nbr Stations Worked	Multiplier	Point Score	Mode
30 mc	59	3 x 2	354	a 3
21 mc	107	3 x 2	642	a 3
14 mc	442	3 x 2	2652	a 3
14 mc	113	3 x 2	678	a 1
7 mc	266	3 x 2	1596	a 3
7 mc	191	3 x 2	1146	a 1
3.9 mc	315	3 x 2	1890	a 3
3.9 mc	117	3 x 2	702	a 1
Field Day Message		3 x 2	150	
Totals	1610		9810	

This enterprising Club came up with one 10 KVA and one 2½ KVA Power Plant, both Gasoline Powered.

BOX SCORE Omaha AK-SAR-BEN

Band	Nbr Stations Worked	Multiplier	Point Score	Mode
50 mc	133	3 x 2	798	a 3
14 mc	345	3 x 2	2070	a 3
14 mc	169	3 x 2	1014	a 1
7 mc	323	3 x 2	1938	a 1
7 mc	50	3 x 2	300	a 3
3.9 mc	221	3 x 2	1326	a 1
Field Day Message		3 x 2	150	
	25			
Totals	1266		7596	

We were fortunate in having not only Power Plants, but also Stand-by Units, just in case something went wrong at the wrong time. NOTHING DID!

Units were furnished by: WØYZV, 12 KVA; WØVLI, 800 Watts; KØLYO, 3.75 KVA; WØYEV, 1 KVA; The Club's Stand-by, 2KVA.

In addition to furnishing some competition for Sioux City and Bellevue, we learned a lot about the rigors, responsibilities and good solid work connected with an emergency operation. Our people did a grand job, and the greatly increased score over 1962 and 1963 certainly shows it. The Neophytes and Novices

did a very commendable job of carrying messages, supplying food and drinks, as well as assisting with the set up and tear down. Let's discount the new and young people in the Club; they will be doing all of it in a few years. THANKS! In addition, most of the newer members did get a chance to operate for at least a small time, and they acted as though they were glad of the opportunity to do so.

We would never be able to write out our Thanks to everyone who participated in some way or another. Several members and their XYL's just came by and pitched in for a while; others spent the entire 24 hours "In the Saddle," and, of course, the old faithfuls who were there from the beginning of the set up on Friday afternoon, until the

final stakes were pulled late Sunday night. We know of no worker who needed for either food or refreshment, thanks to Mary Berounsky, Little Mary, Jayne Fernald, Nancy Novotny, Minnie Cutler, Marie Enders, and Irene, who forgot to give me her last name. The girls fixed and served, or brought food or refreshments, and some just kept the OM's cheered up. And this was strictly Platonic; not a single romantic moment, except the Grand Old Romance of Hamdom, that comes from a Mike or a Key.

We know that we have not mentioned all of the YL's and XYL's who helped, so please let the Editor know about omissions, and we will publish a correction in the next issue.

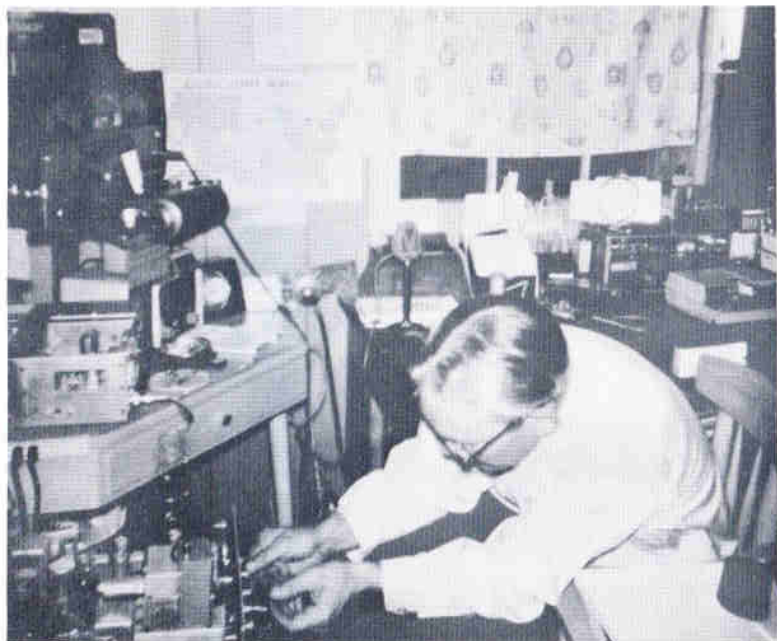
A partial list of the other workers included the following:

WØYZV	WAØBIE	WØEMS	WAØFIHH	WNØJES
John Roberts	WØVLI	WØPHW	WAØHHE	Dan Kuhl
KØLYO	KØKEO	WØYEV	WAØDJK	KØSCE
WAØGNT	WØAFZ	WØNMN	WAØHUS	Bill Snyder
WØWRT	WAØDGA	WNØHII	WØFFG	WØCQX
WAØETE	WØYEG	WØJJK	WAØCMK	WØNKG
WØNNW	WØWRE	WØSMY	WØBTE	KØMGX
WØRMB	KØKWB	KØPQR	KØOQL	WØFQB
KØJQX	WØEGP	KØTVD	WAØEEM	KØMKT

Our next move is to decide whether or not we want to throw these challenges back for the Field Day coming up in 1965. Since the writer is no longer an officer, director, or chairman, all I can do is hope

that the Club will want to get some revenge next year, and that revenge can only be obtained by Good Healthy Competition. How about it?

Royal M. Enders KØLYO
Chairman Field Day 1964



WAØCMK (Barney) getting mobile tuned for NAC. to Albuquerque, N.M. reports fine QSO's in Okla., and Texas, very few in N.M. -had fine trip.

NOTICE OF NEW HARMONIC

Dude, WØAWU and XYL of Trailer City, Council Bluffs are proud parents of a new baby girl, 6 lbs., 3 oz. Congratulations, Dude. de John, WØWRT

Dear Fellow Amateurs:

The Hastings Amateur Radio Club, Inc. will hold a Ham Gear Auction in Hastings, on Sunday, October 18th, 1964, in the Activities Building at the Adams County Fair Grounds.

Yours very truly,
Earle Engstrom, Secretary.
Hastings Amateur Radio Club,

OFFICIAL BULLETIN NR 917 FROM ARRL HEADQUARTERS NEWINGTON CONN SEPT 24 1964 TO ALL RADIO AMATEURS BT

Costa Rica and the United States have exchanged notes, effective September 19, providing for reciprocal operating by amateurs of the two countries, the first such agreement under provisions of the new law. Negotiations are in progress with several other countries. Exact FCC procedure, appropriate rules and forms to be used by foreign amateurs desiring to operate here have not yet been released. Further information will appear in November QST AR

ADDITIONS TO MEMBERSHIP ROSTER

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OFFICIAL BULLETIN NR 969 FROM ARRL HEADQUARTERS NEWINGTON CONN SEPT 11 1964 TO ALL RADIO AMATEURS BT

United States amateurs are again reminded that the following countries object to communications between their amateurs and those other countries. Cambodia, Indonesia, Viet Nam and Thailand forbid such radio communication. The prefixes to avoid are XU PK (JZØ) 3W8 and HS AR

"COMMEMORATIVE STAMP TO HONOR HAMS"

"In recognition of the public service contributions of a quarter million licensed amateur radio operators, a stamp for hams will be issued. This is the 50th anniversary year of the founding of the American Radio Relay League..." Thus does the Post Office announce its issuance of the commemorative postage stamp to be issued honoring amateur radio operators.

August QST announced that the League request for a stamp had been honored. In September QST (page 26) you will find the complete text of the Post Office Department's release about amateurs.

First day covers have been designed; they will be available only from ARRL ..and only by ordering in advance. The envelopes will be mailed by the League, postmarked and sent from the original city - of - issuance on the very first day the stamp is released. These covers will carry a steel graved reproduction of the May '64 QST cover, with the ARRL diamond and art work. A first-day cover can find popular use, either as a 50th anniversary memento for any alert amateur, or it can be used to show local officials, neighbors, the press etc., developing ones amateur public relations in any community. There will be a card in each envelope giving some information about amateur radio. The SINGLE ENVELOPE FIRST-COVER IS 25¢ or for a SET OF THREE, 70¢. For more details see page 26 of Sept. '64 QST. Be sure to include complete names and addresses of those to whom the first day cover (s) when released should be mailed.

**PICNIC PHOTOS BY
JOHN D. SNYDER, WØWRT**

"You'll notice that the antenna/tower shot hasn't any relation to the picnic at all. It's just a shot taken by my wife at the time we installed the new Spiralray antenna. (Around the 1st. of August.)

As you can see, I had some good help from Erv, WAØEEM and Len Harkins (no call.)"

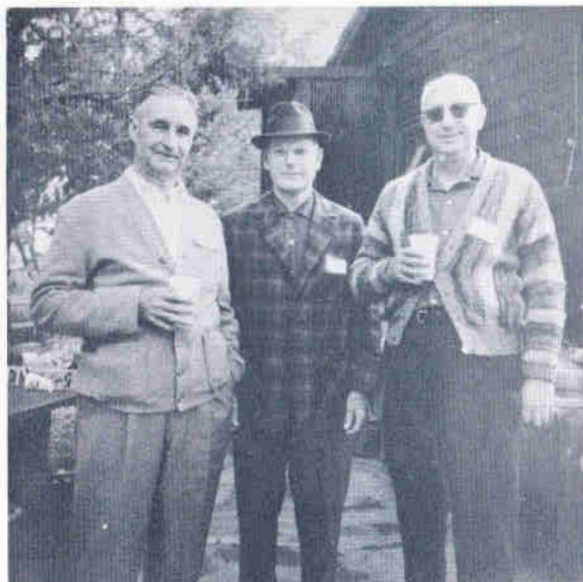
Tnx & 73,
John WØWRT



On tower 'rassling' with antenna are:
Top to bottom - John Snyder, WØWRT;
Erv Heinz, WAØEEM and Len Harkins
on roof.



Group at '64 Picnic - Beaver Brook Farm.



L. to R. - Ed Haley, WØPQP; Joe
Humphrey, KØABN and guest.



Ak-Sar-Ben Picnic - 1964



Bob Margritz, WAØBIE; Mac McLaughlin,
WAØBMJ; Cecil DeWitt, WØRMB; Joe
Roberts, KØKEO.

PICNIC PHOTOS - continued



Shown are L. to R. -
Cecil DeWitt, WØRMB; Mary Berounsky;
Joe Berounsky, Jr.; Tom Thiesen, KØPQR;
(children not known).

12621 South 29th Street
Omaha, Nebraska 68123
June 12, 1964

Mr. Hugh Tinley
2014 South 107th
Omaha, Nebraska

Dear Hugh,

I can't find enough to say about the magnificent performance of the Ak-Sar-Ben Radio Club during the annual canoe race of the South District Explorer Scouts. The Yankee ingenuity shown by all of the amateurs in setting up and operating the net was an inspir-

ational example for someone like myself in the military service. We in the service admire the imaginative genius that directed this net and the organizational activities behind it. It is difficult to believe that you could put this group of amateurs in to the field without any "dry runs" or "prior planning" and come up with the performance that we saw. It was wonderful.

Please pass on our special thanks to Dick Eilers and your other troops, particularly Lonny Theer and George Cherney who were "Checkpoint 9" and did so much to maintain the peace of mind of worried parents and race officials. I don't know what we would have done without *that* canoe at *that* particular point.

I know all of the Explorers and leaders of South District and their families join me in expressing appreciation for the support of the amateurs in this canoe race. We are all very much in hopes you will be able to help us again next year.

Sincerely,
Landgrave T. Smith, Jr.
Colonel, USAF
Race Consultant

NOTICE TO MEMBERS

Ak-Sar-Ben Radio Club bumper stickers and windshield stickers available at 50¢ each from the Treasurer. See Ed Donze, WØYEV, 2926 South 21st Street, Omaha 8. Phone 346-6867.

A CIRCUIT THAT COULD SAVE YOUR HOME, OR YOUR 4X-250B

By using a thermistor, transistor, and an inexpensive relay, simple, but sensitive fire detector can be built. As can be seen in Figure 1, at normal temperatures R_1 , the thermistor and R_2 are chosen to bias the transistor so that the current through the relay is below the pull-in value. As the temperature rises, the resistance of the thermistor decreases and the transistor conducts more heavily. By adjusting R_1 , the temperature at which the relay pulls-in can be controlled. If a relay with DPST contacts is used (dotted lines) positive locking can be assured whenever the temperature exceeds

the preset value. A 10:1 resistance ratio thermistor, and general purpose transistor with a current gain of 20 or more should give a sensitivity of a degree or so.

from Mr. Irwin Math

in Electronic Products

Ed. Note - One reason this circuit was included in Ham Hum is because this type of circuit might also have good possibilities as a warning indicator for transmitting tubes i.e. in the event a blower motor failed, or a loss of grid excitation or anything which might cause a xmtr. tube to start overheating.

John, W0WRT

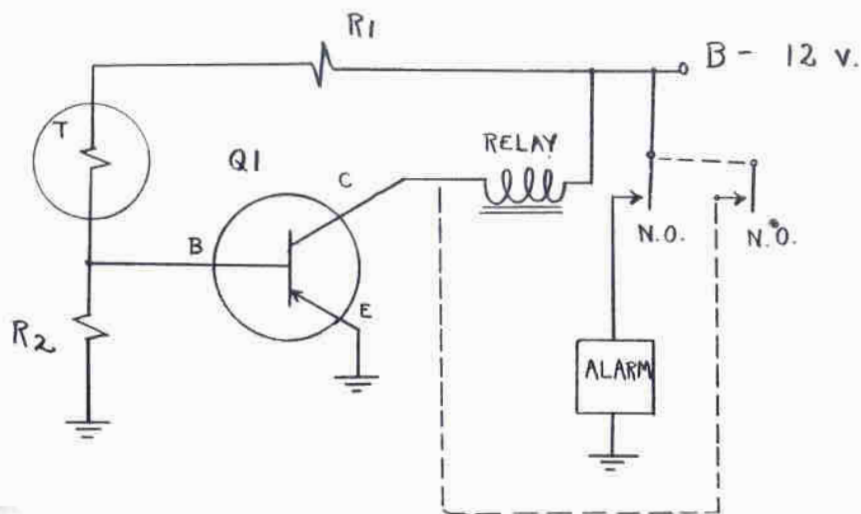


FIG. 1

VHF GRID and PLATE COILS

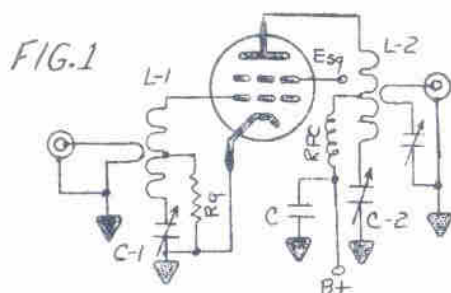
by Ed Abbo

Saxton Products, Inc.

Certain practices in the fabrication and application of VHF tuned circuitry are of paramount importance if optimum circuit efficiency is to be secured.

Most tubes used for 6 and 2 meter transmitter operation, have exceptionally high input and output capacity figures. An example of this condition can be found in the "single ended" configuration using the popular 2E26 and 6146 types. Normally, the effect of these high tube capacities is not too significant on 6 meters. On 2 meters however, this can present a serious problem to the constructor who attempts to use conventional parallel tuned circuits. Fig. 1 shows a more practical method for tuning grid and plate circuits of such tubes. This is known as "series" tuning. In this case, the tube elements actually become a part of the tank coil, further improving efficiency and lessening the chance for difficulty in securing a proper coil-capacitor (LC) ratio. For example: the 6146 tube has an output capacity of 8.5 uufd. The input capacity (grid to cath. & fil.) is 13 uufd. At 144 Mcs., this is a difficult set of values to work with. By using "series tuning" as shown in Fig. 1, this problem is resolved. Since the output capacity of a 6146 is 8.5 uufd., a 15 uufd. variable capacitor would be the wise choice at "C". To effect an efficient and balanced tank circuit condition, the tuned circuit should be resonant at approximately 8.5 uufd., a near mid-range setting of "C". Spreading

the turns of "L", will raise the frequency of the tuned circuit and result in the need for greater capacity in "C". Squeezing the turns closer together, will lower the resonant frequency, thus requiring less capacity at "C". Through this process, a coil can be spread or compressed until "C" is set at 8.5 uufd. when resonance is reached.



Keep both halves of the coil, equal distances from the chassis, panel, or other nearby objects, so that physical balance, as well as electrical balance can be maintained for good VHF efficiency. Large diameter copper (or silver plated copper) wire is best suited to this application. With a 6146 tube, (or similar) #10 solid copper or larger is recommended. 1/8" copper tubing is better, due to "skin effect" requirements. These same rules apply to grid circuit tuning as connected with C-1 and L-1. Since less power is passed through this tank, smaller wire is suitable. #12 or 14 wire will serve well. Also, for best circuit "Q" (fig. of merit), to keep all VHF coils spaced from the chassis or nearby objects, at least 1 coil diameter. (i.e. 1" diam. coil space at least one inch or more from chassis). Larger coil wire or

tubing diameter, results in higher "Q" due to less heating and resultant power loss. Good luck on that next H.B. final!

de VHF'er W8HHS

COME SUGGESTIONS FOR OPERATING ON 2 METERS

I write this at the risk of being biased in favor of VHF operation and to some extent, this is true. So far as Ham Hum is concerned, we seem to get a greater number of VHF articles than others. We've said this before, and this is no kidding - we'd like to get some items of 160 meter interest as well as any other bands but this information just doesn't seem to ever get to P.O. Box 291.

As is well known, one of the aims of ARRL is to get local area communications moved up onto the various VHF and even UHF bands. It does seem ridiculous to hear a couple of fellows a few miles apart carrying on a QSO on 40 m. and using 300 watts each, when they could be doing themselves and their fellow hams a lot of good if they would move their 'local' type QSO up to 145.5 mc. or thereabout. There, they would find a QRM-free 4 mcs. to operate in and most of which isn't being used in the Omaha area.

At one time, lack of equipment was one excuse, but with the amount of good commercial gear now available for VHF, this argument doesn't hold water. Many hams, after hearing good 2 meter setup work for the first time are truly amazed at the clear, QRM free reception. I know that Bruce, WØOTQ will vouch for this, since the foregoing statement

was just about his when he heard this band for the first time; and this came after listening and transmitting on a Heath 2'er belonging to John, WNØIBD. Don't fool yourself, this little 2'er can make a remarkable accounting of itself especially if used with a good-sized antenna. For instance, Gil, WØPUM out at Columbus (that's 90 miles away) used to work my station consistently with his Heath 2'er running into a Cush-Craft 16 el. colinear. John, WNØIBD, a newcomer to ham radio and to VHF has already worked 4 states just with a 2'er including one Wisconsin station during a tropo opening. John used an 8 el. yagi made by Hy-Gain.

I realize that there are many veteran amateurs who do not have the slightest idea what goes on in the world above 50 mc. and maybe this will create some interest.

I'm not telling everyone that he should run right out and buy a Heath 2'er because frankly, these little rigs do have some very real limitations. The little box has a real FB little xmtr. capable of 100% modulation which means a lot, however the receiver is a superregen, which isn't too selective but after all, what more could you want for the price? At least, you can get your feet wet on 2.

Lots of more sophisticated gear is available such as the Clegg line, Gonset, Polycom, Ameco, Tecraft etc. Really, the best practical setup is a good low-noise converter ahead of any good LF communications receiver. For instance, Omaha's most active 2 meter op. Frank Parsons, WØEMS is currently using an Ameco nuvistor converter into a very ancient National HRO and believe me, he can

really hear those 'down in the mud' sigs coming in from Minneapolis or St. Louis. Frank uses a Johnson 6N2 xmtr. and a pair of 8 El. Telrex's a full wave apart and about 65' high. You'll hear him on 144.093 mcs.

Now, some of the local boys have come up and said "Gee, I used to listen on 2 and all I'd hear is either you or Frank or maybe nothing but noise." This is a legitimate complaint since truthfully, there has never yet been a really high level of local (Omaha) activity on 2 so consequently you must figure on starting out with an antenna system capable of 'hearing' a 100 mile range or so. In other words, there are 2 meter stations on in Lincoln, about a half dozen of them but you sure aren't going to get them on a ground plane vertical or a simple dipole. There are also quite a few new stations on 2 in Fremont, Columbus, Schuyler, North Bend and other towns outstate as well as Iowa. Most of these boys can be worked with a decent antenna and just a low power xmtr. Naturally, it helps to be on a high part of town rather than down in a valley but this still isn't going to keep you from getting out good if you get the biggest antenna your budget allows and putting it at a reasonable height. 30 feet could probably be considered as a minimum as a general rule. Some other recommendations: If you have a VFO, forget it and use xtal. control. 2 meter ops. generally pick out a certain frequency to use and stick to it. If you have a general class or higher license, then pick a rock that will put you in the first 400 kc. of the band, i.e. from 144.0 to 144.4 mcs. If you are a tech or novice then your

best bet is to order a rock to put you close to 145. mc. and probably no higher than 145.5 mc. or so. Reason for this is that nobody will hear you if your clear up on 146. mc. Most of the boys simply won't tune that high, since with a converter-receiver combination, this usually involves quite a bit of dial spinning in order to cover the whole 4 mc. band.

Another pointer: Avoid trying to use WW II surplus receivers, because after all, most of these were designed some 25 years ago and believe me, the state of the art has changed tremendously since then. In other words, you'll be lucky to hear even the locals with some of these ancient jobs.

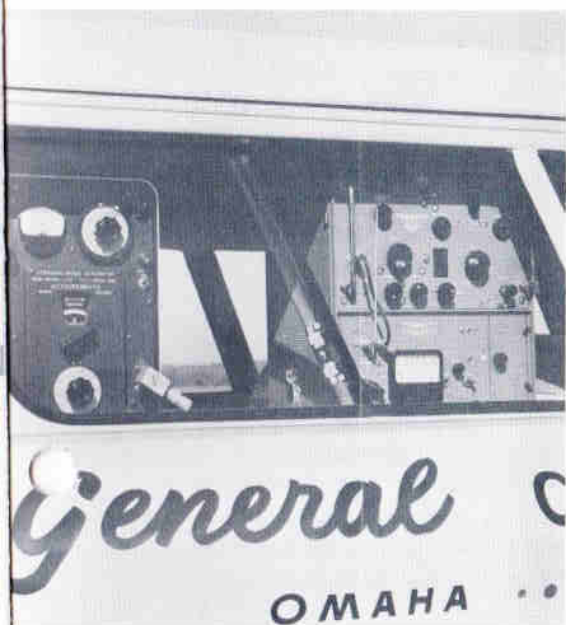
Also, don't be afraid to get on the air and make some noise, call some CQ's in many different directions and let other stations know you're around. Lots of times, everyone is sitting and tuning and unless someone gives a call or two, you'd believe that the band was deserted. Another thing we've tried to encourage is the practice of calling and listening on the hour and half-hour. Most 2 meter activity is taking place during the evening usually from about 1930 to 2230 as a rule. Another area which really needs some exploring in the Omaha area is fixed frequency FM operation in the high part of the band (146-148 mc.) Our old friend Bill Mc Donald, W9DTZ was visiting us recently from Chicago and was very disappointed that there wasn't any 2 meter FM on in the Omaha area. Bill's equipment is Motorola and is set on a national calling frequency of 146.94 mc. The General Communications Co. has had some of this type

(Cont'd at top of 1st Column - back cover)



Not only does General Communications Company have the most modern Radio Shop facilities in Omaha, they have the most modern facilities away from Omaha. The Company recently purchased a 1964 GMC truck which is equipped with a Geertsch FM-7 and DM-3 frequency and modulator meter. Also to make their mobile service installation complete a measurements model 560-FM has been installed for precise receiver alignment. 1000 watts of AC power is available inside

the truck for test equipment operation. The Beechcraft airplane (pictured above) is used for emergency service calls into the area served by General Communications Company. This aircraft is also used for engineering survey work, terrain study, equipment sales, and all-around better service to their customers.



(Cont'd from Page 14)

equipment advertised in Ham Hum in recent months and I haven't heard if there has been much response or interest in this type operation. For real mobile net operation, this stuff is really tops. For those fellows interested in Air Force MARS there are several nets in the area operating on 143.95 mcs. Contact your local MARS Director (in Omaha, Royal Enders, KØLYO) for further information.

73, John WØWRT
CU on 144.15 mc.

**OFFICIAL BULLETIN NR 970
FROM ARRL HEADQUARTERS
NEWINGTON CONN SEPT 18 1964
TO ALL RADIO AMATEURS BT**

The Federal Communications Commission will no longer return expired or superseded license cards to amateurs. FCC feels that a copy of the old document must remain attached to the application for its replacement to insure completeness and accuracy. However, the Commission recognizes that many amateurs wish to maintain complete files of their licenses. Accordingly, FCC will accept a photocopy of your license attached to a Form 610 application, in lieu of the original AR

**OFFICIAL BULLETIN NR 964
FROM ARRL HEADQUARTERS
NEWINGTON CONN AUG 6 1964
TO ALL RADIO AMATEURS BT**

Through an unfortunate error, figure 3C, page 53 of August 1964 QST, shows the white and green

wires incorrectly connected to the transformer and shield. This is hazardous because the safety ground wire should not carry current. The white wire should go to the lower end of the transformer winding and the green wire to the shield. Please correct the circuit in your copy. A revised diagram will appear in September QST AR

**OFFICIAL BULLETIN NR 966
FROM ARRL HEADQUARTERS
NEWINGTON CONN AUG 20 1964
TO ALL RADIO AMATEURS BT**

The annual Simulated Emergency Test will be held October 3 and 4. All ARPSC amateurs, both in AREC and NTS, are urged to participate in local exercises and nationwide traffic handling activities involving traffic for the Red Cross, civil defense and other agencies. Much ARRL administrative traffic will also be flowing through regular traffic channels. ARRL precedence designations will be in use. Your local Emergency Coordinator will soon receive full details and additional information will appear in October QST. If you want to be a part of this nationwide demonstration of amateur radio public service facilities, contact your Emergency Coordinator now and sign up in the AREC so you can be worked into the plans AR
