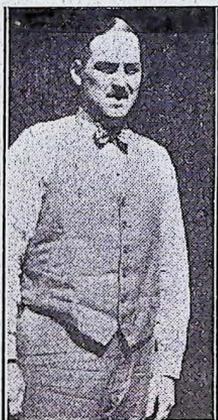


Amateur Radio Forum

Ten Cents a Copy • One Dollar a Year



HARBERT D. KIMBERLY
W9CWM
Lincoln, Nebraska

(See Story Inside)

JANUARY, 1934
Goldenrod Number
VOLUME I. NUMBER 2.

THIS ISSUE:

'34 Convention Notes
As I See Nebraska
Who is Warner, Anyhow?
Grounding Notes
History of Communication
Comical Impressions
Comment
Mitigation Tables
Advertisements

Published by The AROHA PUBLISHING CO., Omaha, Neb.

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AMATEUR RADIO FORUM

Published Monthly in the Interest of Amateur Radio.

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NEBRASKA

State Motto: Equality before the law.

State capital: Fer law—Lincoln; fer Hams—Clarks.

Density of Ham population: Lincoln, Lancaster county. Runner up: Omaha, Douglas county.

The 3 to 1 ratio in population, held by Omaha over Lincoln, is overcome by the two biggest reasons in Nebraska—Prof. Jensen, physics department at Wesleyan University and H. D. Kimberly, W9CWM, president of CARA. That is some odds!!

Outstate: 262 live wire enthusiasts.

Unaccounted for: Four. W9DMY is a deuce on traffic and W9IFE doubled up for December making numerical strength all present and accounted for—at this writing—400. Lincoln, 68; Omaha, 66.

With Lincoln, Lancaster county, the prospective Convention City for 1934 you can rest assured that this meet will be a howling success. Remember the state fest of 1933? If the state meet is any criterion of whats in store for you then the Mid-west confab will go down in history. . . . 100% if you ask ARF! Lets hope the 1934 slogan will be :

On to Lincoln in thirty-four;
Hip hurrah!! Fun galore!!
What? Not there in thirty-three?
Jump in buddy—ride with me.

Trial subscriptions to ARF cost you 6 cent stamps. You can see fer yourself.

Changed QRA? Notify A. R. F. Please.

WHO IS WARNER ANYHOW

So much is said, pro and con, (mostly con) about this said Madrid treaty, and K. B. Warner, in particular, that it maddens me, as editor of ARF!! Yes sir I am mad as a hornet with a double barrell apparatus thats never been used. Why? Just like a lot of editors. . . . for no good reason at all!

But in the case of ARF? With a forum to edit. . . .not half so hard as it may seem, if you can get your readers talking! Let them blaze away and you can sit back and lissen to the reports of the handgrenades as they take effect ON THE PUBLIC at large.

Is it not all in vain? Does not this fuss over California problems take the preque out of yer tobacco? And when its all said and done it appears to the writer that the biggest holler is mere buncombe to advance the interest of some magazine or individual to place them on a pedestal and in a position to garner more sheckels to make more magazine to make more subscribers to make more advertising to make more do-ra-me for Mr. Magazine or ye editorial staffs.

California has a just cause. Don't think they have not. But California or the entire area west of the rock-and-sky mountains will get just what Uncle Sammie dishes out, subject to some of these treaties which are made whether we have K. B. W. or Col. Foster or a lot of would be get-rich quick magazine publishers. These treaties are made to preserve the integrity of the radio business, whether it be commercial, or what not. If K. B. W. (according to the stories that get new subscribers fer some magazines) failed. . . he failed for no other reason than sound business judgement made it impossible to be successful. This Ham game is a hobby not business.

K. B. Warner, from what I read, is accused of being an overbearing top-heavy lazy no account individual. From what I knew, positively, he was raising kids and tending to business before a lot of these shouters shed their square pantsthats that. K. B. W. combines his connections (with the biggest magazines fer the Ham) and knits them according to business judgment. Your \$2.50 per year don't pay for the paper. That QST prints dern good advertising. Increase QST and ARRL wall plasters to \$20.00 per year, cut out the advertising and give Mr. Warner the reins, if you ask me, and Col. Foster would look like the bird the dog ate after his master shot him. Business acumen warrants a little conservatism. But at that some substantial reports indicate Warner is a little hard to approach. . too busy for the

small hombre. . . that is not Characteristic of "big" men. But with all this weepin' wailin' and knashin' of teeth I don't wonder at that angle.

Warner tries to pry loose the better things within ourselves. Thats sufficient warning that before we can ask and receive an enemy in battle we had better

clear our decks for action. Who ever heard of a soldier going to the front for battle in the clothes God gave him and— NOTHING ELSE? A good soldier stands inspection with his guns polished, his shoes shined, his clothes pressed, a clean shave and the right ammuniton.—

—C.F.W.



NEBRASKA

LANCASTER COUNTY DIRECTORY City of Lincoln

W9AJE, K. K. Turner, 2400 B St., F4331.
W9AKC, C. W. Winkler, 545 N. 25 St.,
B2773 (Operator KFAB).
W9ANF, H. C. Harvey, 925 S. 32 St.,
F4335 (Chief Operator KOIL, KICK
at Omaha, KFAB, KFOR at Lincoln.
W9ANZ, L. F. Leuck, 3720 A St., F3274.
W9BEM, G. R. Schricker, 1800 Euclid
St., F3824.
W9BKB, J. McGraw, 2101 Clinton St.,
B3518.
W9BKW, M. Herman, 2538 Holdrege St.,
L9469.
W9BOH, B. C. Burden, 855 S. 37 St.,
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W9BWH, M. Bullock, 1503 H St., B3907,
(Operator KFAB).
W9CCW, F. Blood, 1835 Ryons St.,
F3795.
W9CHK, K. E. Lingenfelder, 3400 N St.,
L4648.
W9CWM, HERBERT D. KIMBERLY,
1222 Nelson St., L8905, (Pr. C.A.
R.A.; N.C.R. Agt. A.R.F.)
W9EGC, H. P. Letton, Jr., 1910 E St.,
F2774.
W9GAP, J. W. Koch, 2957 Holdrege St.,
M1024.
W9OKG, Z. Jones, 3924 J St.
W9OLV, O. Kingery, 817 S. 31 St., F6064.
W9OLX, H. Olson, 3300 Woods Av.,
B3118.
W9ORM, Carl Spehr.
W9DNC, P. M. Palmer, 3145 S St., (Op-
erator KFOR).
W9DQM, R. R. Jensen, 4926 Leighton
St., M3492.
W9DZK, SHERWOOD GAYLORD, 2914
N. 53 St., M2472. (S-T C.A.R.A.)
W9EAI, John Behrens, 937 Washington
St.
W9EAU, P. C. Rohwer, 2041 K St.,
L9583.
W9EDI, J. H. Leacock, 2995 Orchard St.,
M2048.
W9EGK, D. Ristine, 3715 S. 19 St.,
F5562.
W9EPK, L. R. Peterson, 2809 F St.,
F1792.

W9EYT, R. F. Knochel, 602 Wyatt Ave.
W9FHQ, F. Merting, 1547 N. 33 St.,
M1096.
W9FNW, D. Robinson, 2277 Holdrege St.
W9FWL, HUGH C. FOSTER, 5113
Cleveland St., M2205. (V. Pr. C. A.
R.A.).
W9FQZ, D. B. Robinson, 6301 South St.
W9FVE, E. L. Dahlstrom, 3213 Dudley
St., M3320.
W9FWW, L. H. Cook, 2111 K St.
W9FZR, B. J. Dalton, 235 S. 26 St.,
L4415.
W9FZX, Bob and Otto Woerner, 2505
South St., FO-162-J.
W9GAG, A. Gaylord, 2914 N. 53, M2472,
(OT).
W9GBF, G. D. Laughlin, 1630 Harwood
St., F2993.
W9GF, H. R. Schultz, 3120 O St., L8202,
(Operator KFAB).
W9GFK, DR. GEORGE R. UNDER-
WOOD, 2024 S. 27 St., F5704.
W9GNZ, C. M. Ault, 2929 O St., B6112.
W9GQN, R. M. Raymond, 2675 Sewell
St., F2788.
W9GQW, N. A. Maxwell, 4203 Starr St.,
M1748.
W9HV, E. L. Blevins, 3112 Holdrege St.,
M2105. (United Airlines).
W9HYR, S. S. Sievers, 1218 N. 26 St.
W9HYT, R. W. Lorey, 1549 N. 21 St.,
L6541.
W9HYZ, C. H. Nielsen, 3411 S St.
W9HZC, B. A. Elliott, 3112 Holdrege
St., M2105.
W9ILT, R. C. VanKirk, 802 First Nat'l,
(N.N.G.)
W9IXB, S. S. Sievers, 1218 N. 26 St.
W9JHD, F. Deming, 1233 N. 42 St.,
M1473.
W9JLW, W. H. Peterson, Jr., 1036 G St.
W9JOT, M. L. Baker, 2410 S. 22nd St.,
F6039.
W9JWW, B. C. Burden, 855 37 St., F3259.
W9JRU, D. H. Hallbeck, 1430 Peach St.
W9JXR, R. V. Randall, 2505 W St.,
L7726.
W9LIC-ILO, R. E. Brittin, 1009 South
26 St., F5936, (Chief opr. Lincoln
Police Department KGZU).
W9MJV, L. W. Mabbott, 901 S. 15 St.

KFAB, 770 KC. Studios: Cornhusker Htl.

KFOR, 1210 KC. Studios Lincoln Hotel.
CARA—Cornhusker Amateur Radio Assn. meets 8 p. m. at the Y.M.C.A., second floor every first Wednesday of each month. Slogan: Visitors always welcome. Diversions and club activities: Speeches, papers, hamfests, and promotion of anything beneficial to Amateur Radio frat.

EX9YD, Prof. Jensen, Wesleyan University, resides at 4926 Leighton Ave., M3492 (W9DQM his son).

Outside of Lincoln City

W9HDG, Frank Hamata, Hi-way 79, Agnew, Nebr.

If you know of any other Lancaster ARS not listed, please mail to ARF immediately for listing.

LINCOLN NEBRASKA NOTES

Franklin Winchell, who took his license exam at the hamfest in Lincoln last May expects to get his station license by April first. His first application was returned for correction. Fixing it up he sent it in again but on Oct. first, a new blank and new procedure went into effect. Now he must get new blanks and start over. Winchell figures the FRC must have a code which gives a "new deal" to the notaries.

"Professor" Morrison of the Lincoln High School staff also suffered with Winchell and suggests, "Get your applications in before the fifteenth of the month. After that date the commission has a new routine."

CARA—CORNHUSKER AMATEUR RADIO ASSOCIATION

By H. D. Kimberly, W9CWM,
1222 Nelson St., Lincoln, Neb., Pres.

The Cornhusker Amateur Radio Association was organized on April 18, 1929. The original officers were, President, Louis F. Leuck, W9ANZ; Vice-President, Rod Hertel, and Secretary-Treasurer, Ed Cassel. The purpose of the organization was the exchange of hints, kinks and operating data, the discussion of new and better equipment and the coffee cup fellowship of one ham with another. In line with these aims the association early affiliated with the A.R.R.L.

The membership fee was set at \$1 per year, which was later raised to \$1.50. The secretary was allowed a salary of \$1 per month and the sails were set for a very active outfit. Among the ambitious projects attempted was a demonstration of plane to ground communication by radio at the State Fair in 1930. The project had to be abandoned after

successful preliminary tests. A license for a mobile station could not be obtained. In 1931 association sponsored a summer school in beginning radio in co-operation with Y.M.C.A. The latest, and most ambitious project is the Midwest Division Convention which will be held in Lincoln next fall.

With the wolf finding more and more doors to be interested in, the Cornhuskers rewrote the constitution to more nearly fit into the 1933 picture. Dues were reduced to 10 cents a meeting and membership was put on a participation basis. Membership is no longer conditioned on paying dues. An amateur may become an associate member by application to the secretary. If he attends three regular meetings he automatically becomes a full member. And if he misses three meetings consecutively he automatically becomes an associate member. The sole difference in membership grade is the right to vote. Dues are 10 cents a meeting but don't stay away if you don't have a dime.

A committee which has proved very profitable is the contest and prize committee. At least one prize is given away each meeting night. There is always a drawing for a tube, a condenser, or some other small part, which is based on dues paid. In addition, there are frequent code speed, QRM and other contests for which other prizes are awarded.

With nearly five years of history the meeting time and place of the CARA have been pretty well learned. The first Wednesday night in each month finds the Hams of Lincoln and vicinity gathering on the second floor of the Lincoln Y. M. C. A. Visitors are always welcome, and are given a welcome even to the extent of letting them in on the drawing.

The present officers, W9CWM, W9FWL, W9DZK, backed by the entire membership of the Cornhusker Amateur Radio Association, invite the Hams of the world to visit Lincoln and the CARA.

CARA DECEMBER MEETING

The Cornhuskers kept their December sked with a fb meeting at the Y.M.C.A. on December 6, 1933. Meeting opened with the usual roll call during which each man present gave his name, call and frequency band he was working. Following roll call a general discussion of local conditions ended with a formal resolution of invitation for the Midwest Division A.R.R.L. convention. Plans for that convention will be started just as soon as the date is definitely set.

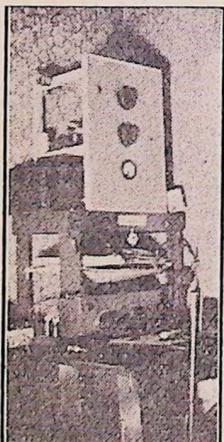
The "meat" of the meeting was a fine talk on "Crystal Filters in Single Supers," by Phillip W. Pepoon of Waver-

ly and Lincoln. Beginning with choice of intermediate frequency and the factors influencing this choice, Mr. Pepoon carried on to the position of the crystal filter, its characteristics and its operation in both the series and parallel connection.

Following the talk, a discussion of the present condition of the bands raged with the heat centered on the letter in QST in which the owner of a SS receiver said the bands were only a quarter full. The clock finally cut this discussion with lots in the air left for future meetings.

The door prize, an RCA type 83 tube, was awarded to W9CWM on the drawing. Twenty-one other hams present went home determined to be lucky at the meeting January 3, 1934.

Harbert D. Kimberly, W9CWM, 12-22 Nelson St. Lincoln, Nebr. Single, male, white and unemployed. Went to school twenty-one and a half years ending up with Bachelor of Arts and Bachelor of Science in Electrical Engineering degrees. Also a City-State Teachers Certificate. Took ham license at Missouri Valley convention in Sioux City in 1931 and accumulated Radio telephone First license at Lincoln in 1933. Acting commander, unit 3, Section 9, USNCR; President CARA; Assoc IRE. Just an ordinary fella trying to get along! And a dern good one—if you ask me. Edr.



Sta. W9CWM

Push pull 245 TPTG with 400 volts. Tubes served two years apprentice in BCL rig and are well broken in. Receiver is '24 det with two '27 audio stages. Box up beside transmitter is Gen. Radio absorption wavemeter won at Sioux City convention. Plurality of tickets on wall. Box down by receiver is wave trap for the cops.

NOTES

ARF!! I would appreciate receiving one of your Ham sheets. Please find 6 cents stamps enclosed for trial subscription copies. Allen Nutter, Box 232, Rt. 1, Redlands, Calif. (1)

Ash, Gordon G. W5CY, 518 Pearl St. Denton, Texas. Rah Gordon glad to meet yuh! Mr. Edward Baburek's courtesy and regards. (6)

Agents for A. R. F.
 puh leeze, oh puh leeze . . . in turning in subscriptions for this magazine be extremely careful in listings!! We must have the info on subscribers as follows: (1) name and address (fone number if available) (2) station call (this must be correct in every detail) (3) any other info that is of general interest. Short snappy stories are most desirable. What is that new members hobby (outside of radio of course) and any hi-spots of his career that you may know? Maybe he or she has a nick name? Hi. Edr.

Borgstrom, Milton, Little Falls, Minn. prospective ham. Subscription sent in by F. A. Eberhardt, Motley, Minn. W9FTJ. (12)

Bonn, Lew Co. 2484-2486 University Av. Fone Nestor 6365 "In the Midway" St. Paul Minn. Catalog for 1934 arrived at ARF today. Dandy. Lotsa good material and prices right! Hotcha! Didja get one?

Burke, Dennis, 1418 Douglas Ave. Ames, Iowa W9NTB, mailman, has joined ARF!! Welcome to our midst Mr. Burke. (12)

Burns, Wm. H., Fort Crook, Nebr. Sent in by Donald Jennings. W9ST. (12)

Burton, (Andy) W5DBX ses: Personally I don't think the name so hot. But at that you have a good headin' fer a column "Forum and again" 'em" Hi. W3CIX W4PL and I are working 3-way three times week, at 4:30 a. m. Trying get fast line hookup cross country . . .

Clipping from Omaha Bee-News: Tekamah, Nebr., Dec. 19.—Christmas season ushered in . . . the cantata was sung Sunday evening . . . John Gates, Mrs. W. T. Pucher, Mrs. Olinger, Mrs. Hutchinson and Miss Dodderer. Is the John Gates mentioned herein our John Gates, W9MQY? . . .

Carlsen, George, W9GPT, 2475 South 19, Omaha, Nebr. Greetings George and we welcome you to our family through the courtesy of Mr. Edw. Baburek, Omaha. (6)

Casidy, Ernst D., Fort Crook, Nebr., another new member of our large family, sent in by W9ST, Donald Jennings. (12)

Dow, Howard, W5AIJ, Pond Creek, Okla., newcomer, and we invite Mr. Dow to send in a story . . . about ani

thing of general interest to his fellow hobbyists. (12)

Davis, Jack W., 80 S. Duncan, Fayetteville, Ark. W5BTX, ranks second here for power with 211D's in PP. Rack and panel type rig, FB. (1)

Diehl, C. B., 5605 Cedar St., Omaha, Nebr. Another one sent in by W9EW. (6)

Dinkle, Chuck, W9FLI, 2630 Avenue B, Council Bluffs, Iowa . . . former South Dakotan . . . sent Amateur Radio Forum a "batch" of telegrams rec'd at his station. Looks like Council Bluffs is going on the map with traffic averages now. And too fellers here is one radio Ham its a pleasure to meet . . . look his mast over. Chuck swings a swell technique.

Exchange list now includes: Commercial Telegraphers Journal; Radio; Static; Sparks; ITK Bulletin and Amateur Radio Review. More contemplated and you may rest assured that ARF! will keep you well posted . . . Telegraph and Telephone Age also coming up as well as ORT.—Edr.

Egan, Roland O., Fort Crook, Nebr., another name sent in for a year's subscription to ARF, by W9ST. (12)

Eckley, Claire, W9IFE, Tekamah, Nebr., is too busy on CW to buck the Big Berthas on the fone band.

Gates, John, W9MQY, has the last trace of Renwick Mitten, at Tekamah—an insulator from Renwick's first radio station in Tekamah. Now we should be able to find Renwick.

Eggleston, Ed., W9MDL, 903 Maren-go Ave., Forest Park, Ill., new member of the ARF ARF family. Eddie OB lets have a hotcha story from you to lay alongside a couple Chicago hams' articles—coming up soon. (6)

Flesher, Harold F., W9PDM, Ex-W9DFP, 927 Third Av., Council Bluffs, Iowa, another newcomer, from Pottawattamie County and a member of CROC, and also a construction and maintenance electrical engineer, gets a new CALL BOOK along wid his yearly. (12)

Foster, Hugh, W9FWL, Lincoln, Nebr., 5113 Cleveland Ave., VPr. CARA.

Griffin, Don, W9EWO, Bx 53, Kearney, Nebr., on 3800-3720-1750 keeping various skeds during day and nite fone working on 1900 and busy with USNR, winding chokes for W9DFP and some traffic. Has some hogs and cows to look after and provide with QRM when needs it.

Griffin, Don, W9EWO, Bx 53, Kearney, Nebr., writes: "ARF received—was a big surprise—well written and planned. One thing I don't like and that's my picture with Dan. Dan said his was OK but I don't like mine, NERTZ. (50-50 break. Edr.)

"bout Omaha traffic arriving late. IF THERE WAS A STATION ON IN OMAHA maybe we could put some traffic into your town. If you see W9FLI tell him would like to continue sked. Wats his QRA?" Thanks, Don—W9FLI is none other than Mr. C. G. Dinkle, 2630 Ave. B Council Bluffs, Iowa, formerly Bx 205, Wagner, S. D., now an IOWAN and member of CROC and AROC. Traffic is second nature to him. Edr.

Glanton, D. R., 4505 Charles St., Omaha, Nebr. . . a new member of ARF. Sent in by W9EW (12)

Gould, "Chuck" W9OPG, recent Omaha, Nebr., visitor, left for Des Moines last week.

Hobbs, Herman E., W5CIZ, 9701 Monroe St., Linden, Maryland, writes: "I have been sniffing around to see what could hear from the mid-west. Nary a bite except Linden, Iowa, (evidently W9EOE, Levi Hockett, R 1 . . . how about it Levi? Edr.) and W5CEZ, in Oklahoma (Carter L. Simpson, AARS 2210 South 4 St., Ponca City . . . Edr.) fer a few words. Made myself a doublet ant. Like figure 121 in the handbook, except I have it coupled with a trimmer con. (Hammerlund) small capacity to the pickup coil of my receiver. The ¼ wave ant is 2½ meters each side of the center tap, the twisted lead is 65 feet long No. 21 twisted cord. Cord tacked around doors, ceilings, etc., from attic 45 feet above ground. Noise cut out considerably and also QRN. Mani 73's 30 here CUL. W 3CIZ. M-R-H."

Henry, Gordon I., W9DFR, 4808 Webster St., Omaha, Nebr. Long time wid the amateur hobby . . . now a big BC engineer wid KOIL but still a "Ham." Glad to see your story Gordon. (6)

Honea, L. W., R1, W5BSG, Fayetteville, Ark., Xtl 40, 80 and ye ole 20 now at University. Cards prove a consistency on DX.

Hart, Alten, Sunset Hill, Fayetteville, Ark. W5CSN, is a leader in power at this man's town. Has a SW3 too! (1)

Hebenstreit, Emmett F., W9CHI, Grand Junction, Iowa, sends headquarters a dandy QSL wid nize border and ARRL settin' out on both sides swell like 'n everything. Thanks Em Ob. (1)

Hagemeister, W9KQX, Potter, Nebr., is not in the shoe business as his December listing might lead you to believe. He is in the lumber business and ses he mite as a possible pastime make some wooden shoes if the editor so desired. These errors creep in sometimes—we are sorry, Dean.

Headquarters Company, 17th Infantry, Fort Crook, Nebr. . . New club for Sarpy County . . . name not yet submitted but Mr. Donald V. Jennings

W9ST is the party behind this activity at Fort Crook. The following make up the charter membership list: Burns, Casidy, Egan, Jennings, Michel and Parsons.

High efficiency doublers . . . a good article by W6WB in Dec. Radio.

Ham Fest—At Ravenna, Nebr., Sunday, 17th. Present: EWO, JLP, OGM, GKZ, DFF and BCX foned he was coming but failed to show up. Lotsa fun and swapt a lotta stuff. When EWO left he had four of my meters, a new 50 watter and a T-199 Cardwell. Arf! Lemme see— gess thats all the dope now . . . QRU 73's and CUL! W9DFF. (ORS OBS AA NCR ETC.)

Horton, I. D., W9DCC, 433 Kearney St., Minden, Nebr., on 1750 CW doing his part for AARS and handles considerable traffic—W9EWO.

Heading on a local Omaha newspaper read: "Static causes \$75,000 loss in elevator at Gibson, Nebr." Lawsy, lawsy, taint a drop in the bucket to the damage caused Hams. Each individual Hams burnt out patience is worth more than that . . . Edr.

Heitkotter, E. H., W9FCS, 42 E 5 St., Deshler, Nebr. Subscription sent in by Mr. Wm. J. Bamer, Tobias, Nebr. (6)

Hoover, P. F., W5CEB, 907 East Maple St., Enid, Okla., a newcomer to the pages of ARF! Send 'im a welcome card, boys. He will no doubt submit an article in the near future to add to the interest of ARF. (12)

Henry, S. L., W9JSO, 316 W First St., Sioux City, Iowa . . . Woodbury county entry to our family. Welcome to the fold OB and hope to see you at the Mid-West Conv. in Lincoln next year. (6)

Jensen, Robert, W9PDG, 3143 N 59 St., Omaha, Nebr., WA. 6724, sends in order for Winter Edition CALL BOOK and ARRL log book.

Johnson, Stanley, W9LBV, (care Don Griffin, Bx 53 Kearney, Nebr., until we can get QRA straightened out) now on 1750 KC pounding brass at Kearney now instead of the old QRA 107 E 12 St., Grand Island, Nebr.

"Jest of Honor" . . . watta dija mean by this and 88's whispered at a party near Fayetteville, Ark., about August. Answer qwik, puh leeze . . . Anxious (1) care ARF.

Jahnke, John A., W9CZY, Harlan, Iowa—suggests that we run back into the past for sketches, schematics and fotos . . . depicting Ham activities, etc. Not a bad idea, Mr. Jahnke and we will run three such ideas . . . FIVE YEARS AGO, TEN YEARS AGO, TWENTY YEARS AGO, and you fellers dig up something along that line and if it beats mine . . . in she goes. I have copies of Radio magazines since

their first issue and am hunting fast. Step on it, John, OB, Edr.

Jensen, J. C., Department of Physics, Wesleyan University at Lincoln, Nebr., old 9YD at the Nebraska state capitol in the old spark days, writes: "I will be glad to write a story for your new, interesting publication . . . I can go back a long ways in telling a story of Amateur radio in Nebraska . . . at the Nebraska state fair in 1906 . . . 9YD in 1913 . . . well Prof. Jensen will tell you all about it later. Thanks, Mr. Jensen.

Kleppin, Elmer, W9DBO, Wenona, Ill. Greetings Mr. K. We welcome you to our family circle through the courtesy of Mr. Edw. Baburek. (6)

Key Klix . . . The American Sales Company, 44 W 18 St., NYC in a recent issue published a good item of interest to the Phone man titled "The Frequency Division of the 75 meter band." Both sides of the question were discussed and a few "neutrals" had their say. How can one be neutral in that "world of affairs" is the puzzle . . . tc W9IFE wot sa?

Lacey, Clarence, Harlan, Iowa, radio enthusiast during his "spare" time is employed by Gambles and the toy department does a whale of a business too. Mr. Lacey it appears is up and coming at whatever he takes up and John Jahnke W9CZY vouches for him.

Left and right handed Hams could get a little practice in our "maiden" issue. Fer instance . . . Andy Burton's foto to your right and J. Leonard Hollis' to your left . . . "taint" so . . . unless you are resourceful . . . stand on your head 'er something. Just one of those things that happen (to maiden issues) and we pray—forgive, forget and we will get better wid time. Hi.

Longest letter so far received: W9CMV, Opal Sisk, Pittsburg, Kas., holds that record with 2800 words. Can you beat it? Try and see what's in store for you.

Miller, Dan, W9JLP, 2208 4th Ave., Kearney, Nebr., on 1900 fone and 3800 CW. Traffic and Don says he is noted "fer his long winded QSO's."

Michell, Marvin E., Fort Crook, Nebr., subscription number five, sent in by D. V. J., W9ST. (12)

Miller, Dr. J. P. W9KYD, Ashland, Nebr. Sent in by W9EW. (12)

Masts, Antenna supports seem to be enjoying an exceptional amount of publicity of late. "How to Build" may be found in most any radio periodical, Radio of San Francisco featured a good article recently and now Short Wave Radio has a good article. One of our readers has a good stunt and if enough demand we

COMICAL IMPRESSIONS

W9DFF . . . why not swimmin' pool business turned into a skatin' rink?



Well the old WX man brought out the overcoats fer XMAS ani how . . . fer those that could retrieve their tickets . . . and had the price. But who wants to be running about this time of the year? Perfect DX weather if you ask a Ham.



Ye editor reading Wallace's report for December . . . plenty totals! And the number of stations involved!!



None other than W9-KPA searching and wondering about W9-IFE . . . jest couldnt find him in December ARF!! Nertz?

Any Tekamah, Nebr., citizen . . . rejoicing of their most prominent citizen's accomplishment. They may well be proud of Claire Eckley's 606 in the December report.



Mighty good addition to any Ham station . . . a good scale for weighing instruments and the likes . . . of course it could be used for other purposes.



Eckley, Claire, W9IFE, 322 Pea St., Tekamah, Nebr. . . with 606 messages for that December windup surely must have looked something like this?



Suggested addition to store house equipment of any married radio Ham . . . the rollin' pin. Note the forced smile as ye Ham ambles along to church . . . or the movies.

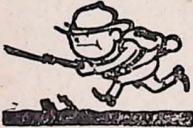
Or perhaps like this?



Cats out of the bag . . . yep. Mabel Talmadge, Bx 401, Baldwin Park, Calif., is enthusiastic for Ham radio and . . . SHE IS A NEWSPAPER WOMAN. She is "listenin' in" on ARF! She suggests ye edr. get a "bullet proof" grade of stationery. Well Mabel here is the dope. Depression rules this old "mill" and this grade of paper must stand by fer a few months. But why number the sheets? Don't you know these Hams read like nobody's biz and numbers don't mean a thing to 'em? We get 360 words more news by leavin' out de nrs . . . why thats it. Informal? Just what we want. Send in that story in good old newspaper style.



W9IFZ NNG out after a guard net?



Is this rooster mad? And how! He was left out of the first edition. Well here he is crowing about his final triumph . . . or is it account that 9IFE high average?



W9DMY, "Butch" has something to shoot at now Claire's 606.



W9EEW'S traffic report for December . . . perhaps it was 3 . . . but anyhow it raised the grand total . . . some.



Edr.

Wine has a "Pop"
Vinegar has a "Mother"
Sugar has a "Daddy"
Gump has OM "Oh Min"
Hams their "YL's"
And "OW'S"
And we hope that
Uncle Sam gets "ARF" Measles.
And How!!!

will run a good article later. "Put up and take down" is the big problem Eh? Lets have your story of how you did your job.

Miller, Max, W9DMF, 1609 N. Waco St., Wichita, Kansas, interested in ARF . . . reading a first copy. Thanks, Max. (1)

Moran, Theron, W9HGO, 204 South 25 St., Omaha, Nebr. . . "Here and there—on the air" for ARF! Theron Moran came into being as a key pusher in 1931, month of May, as the proud parent of an "H" call . . . proud owner of one of Omaha and Nebraska's nicest stations which he claims may be obsolete tomorrow . . . stages of growth as per usual . . . SW listener, BCL'ing "Lab" foreman for auto radios WOP (without pay) at present unemployed (during his allotted unused time and being a dyed in the wool ham . . . just how much unused time has he?) He admits he is ordinary, pushing through some doggone good QRM, and ends up with 73's 3.2's and CUL . . . ask ani one and they will tell you Theron is a dern good Ham. (12)

Olmsted, Roy E., Wauneta, Nebr., prospective ham, subscription sent in by Mr. C. B. Darnell, W9KPA, Enders, Nebr. (12)

Perry, C. E., Motor Rte 3, Bx 921 Joplin, Mo., reported recovering slowly from long seige of illness and will be active on air, at least part time soon. Our sympathy goes out to Mr. Perry and hope to see you around again soon.

Powers, J. E., W4ABQ, 1712 Southside Ave., Bristol, Tenn. . . another member of ARF!! Regards from Edw. Baburek. (6)

Parsons, Auldon H., Fort Crook, Nebr., subscription number four by Donald V. Jennings, W9ST. (12)

Pulliam, Charles, Jr., W9OQC, AR-RL, AARS, ORS, CX7 and HARC, 606 Walnut St., Hiawatha, Kansas, forwards a substantial order to AROHA which produces a small profit to help to make the January number better than the December number of ARF. Mr. Pulliam is a live agent and his efforts are appreciated . . . by the readers and the Edr!

Rice, Frank, Staples, Minn., W9NLS, subscription sent in by F. A. Eberhardt, Motley, Minn. W9FTJ. (6)

Receivers (new) at W9FAM, W9DFF.

Subscribers to this magazine should keep posted on advertising rates. Send for them. When you buy from your local dealer insist upon reciprocity. Get the commission on advertising and help us make this the best little magazine in hamdom. Puh-leeze.

Seafaring story from a radio ham

that was one coming up—by Ex-W9HC —Mr. J. P. Wilson, who saw war service (among radio aboard ship) of vital interest to all.

Sisk, Opal, W9CMV, Pittsburg, Kas., thanks awfully much for the FB Xmas card and how. The Kansas Sunshine; the the Kansas YL! (12)

Smith, Clyde D., W9DFF, 408 Sicily Avenue, Ravenna, Nebr., writes: "Home again in Ravenna. Want to compliment you on the FB edition of ARF! This probably isn't the first letter you have received . . . at least I hope not. I started reading it when received, word for word and I'm plenty glad we've got the coming thing. Congrats to you for what you've thus far accomplished." Clyde writes in detail relative to his new rig but I'll not publish it till his foto comes in. Send it in OB. Edr. (24)

Smith, T. H., 4320 Grant St., Omaha, Neb., W9JHN, new AROC treasurer. On 7240 KC with a wallop. (1)

Smith, "Ike," 2503 Meredith, Omaha, Nebr., visiting in Harlan, Iowa, met John Jahnke and John being a member of AROC looked over the situation which was this: "Ike" was active in radio in 1920. The bee is re-stinging. Go see Mr. Smith you AROC membership committee.

SAARF!! Wud like to hv UR "Ham Sheet." E. G. Osterhoudt, 151 Liberty St., San Francisco, Calif. (1)

Thomas, Fred, W9GKZ, Ravenna, Nebr., 924 Grand Ave. Fred's subscription sent in from Lincoln. By W9CWM. (12)

TWINS, are a problem! Dave: "The girl I married has a twin sister." Joe: "Gee! How do you tell them apart?" Dave: "I don't. They have to look out for themselves."

Any number of "TWINS" in radio world. Fer instance . . . W9OPP W9CR-Ex and a host of others . . . send in your twin story and fotos. Edr.

Yates, Dwight, W9NTY, Harlan, Iowa, in addition to being a Al Ham fixes BCL's troubles . . . PDQ. Also does bicycling repair work. No he is not laying down on the Hamming . . . just too busy with CASH customers, so reports W9CZY.

Ten years ago . . . QST ses: (1) Two-way amateur communication across the Atlantic for the first time in history! (2) New distance records for amateur. 100-meter Transatlantic . . . first by ani body. (3) WNP wkld 6CEU in Hawaii!!!! Three five watters! (4) All records . . . stunts. (5) Alaska opens up . . . QSO wid states!! (6) Not only do we continue to be heard in Japan and Australia . . . but . . . two Aussies heard in Calif!!

Ten years ago or a little better QST

shows J. G. O'Rourke, Omaha, Nebr., as divisional dir. . . Sept. 1922!! Some were breakin' their necks to get off "spark" and the honeycomb coils looked quite imposing. Cunningham C300-\$5.00. "Type C301 O-N-L-Y \$6.50" A knob was worth a buck and a half. Pancake condensers a buck and two bits. It cost money to "peek" those days. (1)

Terrill, Rollie, W9IQI, Robinson, Kas., started something . . . so several letters indicated . . . and by this time it should be well along, at least a baseball nine, five on one side and four on the other . . . mustacheo, Rollie, Eh! Get behind that traffic, Rollie, your message filed Dec. 2 received here on December 10. Eight days en-route! (12)

Wallace, S. C., W9FAM, SCM-NEBR. reports as follows:

	1	2	3	4	5
Oct. 15	1809	1809	19	99	99
Nov. 15	4634	6443	20	232	165
Dec. 15	5677	12121	26	219	189

- 1—Total for the month.
- 2—Total to date.
- 3—Sta. reporting for the month.
- 4—Average per sta. for the month.
- 5—Average per sta. up to date.

Leaders in October . . . BNT-DMY-FGS.

Leaders in November . . . BNT-DMY-DI.

Leaders in December . . . BNT-IFE-DMY.

Note: Read "As I see Nebraska" by Mr. Wallace in this issue.

Woerner, Robert G. W9FZX, Lincoln, Nebr., 2505 So. 52 St. What became of that foto Bob? (12)

AS I SEE NEBRASKA

By: S. C. Wallace, W9FAM, SCM Clarks, Nebr.

As I have been asked to give a write-up on the subject, "AS I SEE NEBRASKA" I am a little bit at loss as to just what is wanted and just how to begin.

However, Nebraska as I see it up to the present writing, is very encouraging to say the least. It looks as though the Gang here in Nebraska mean business this season from the activities I have observed.

You fellows around over the state are sure showing some interest in the good old Cornhusker State this season; when I say you are showing some interest, I say it with self confidence as I do not always take some one else's word for it. As a great many of you know W9FAM is on the air daily from 5 p. m. until 10 and 11 p. m. and when not in act-

ual contact with some station has made the practice the past two or three years of covering the band doing a little personal observing; not that I am trying to catch some one off frequency, or violating some of the rules, regulations, or radio laws, but just to try and find out how many of the Nebraska gang are on the air and just what they are doing.

Some might be surprised at what I know about your station and just what I have heard (nothing you are to be ashamed of.) Hi. I would rather put it the other way; (something you are to be commended upon) One thing Gang! am very proud to say that the procedures of the Nebraska Hams are very fine. Don't think that I am passing out any roses. Hi. If there is anything so terribly wrong I am not the one that wouldn't come right out and tell you so; not to hurt any ones feelings understand, but for your good.

There is one thing sure, that if each one of us will live up to the rules laid down by the ARRL as near as possible we won't go wrong very much.

One thing I have observed, SKEDS the different Nebraska Hams are keeping; and believe me fellows they are keeping them and HOW! That's the only way to get real enjoyment. Nothing more discouraging than to make a Sked and the other fellow does not keep it. You better not make it if you are not sure you can keep it.

You fellows that have been keeping these Skeds; that have been and are real skeds; don't you get a real kick out of it? Isn't there a real satisfaction to know that when the appointed time comes for a certain Sked and you kick the switch and give him a call and hear him come right back without a hesitation? Isn't it a real satisfaction to tell a fellow having traffic in some certain direction and asks you to QSP that you can assure him it will be moved in the proper direction without any guess work, or hit and miss CQing? If you are a traffic man and enjoy handling traffic don't it turn hard work and suspense into a pleasure? How about that traffic total of yours at the close of the reporting period? Has it increased? Why? Don't you feel better? If you don't the SCM does; slip the totals to him promptly and watch him smile. 73 CUL.

PIONEER DAZE

By E. R. Anderson, W9EW, Omaha, Neb.

W9EW (that is, post-war 9EW) came into being Dec. 16, 1919, issued by the Department of Commerce shortly after the world war. Restrictions were, I believe, formally lifted in November, 1919. Original 9EW license bore the

number 122. It was the 122nd license issued in the 9th. I believe the first license issued in Omaha after the war, possibly the first one issued to a Nebraska ham. I may be wrong! I do not recall any earlier letter combination at that time. Suffice to say W9EW has been the call ever since that date.

First interest in radio (wireless) as it was known developed in 1914 when just a "punk in knee breeches." I recall vividly my first "loose coupler" made in manual training while in grade school. The coil forms were either Quaker oats cans or "what had you?" Vacuum tubes were unknown. We were using the coherer and de-coherer for a detector, graduating later to the galena crystal class. Headsets usually consisted of a single 75 ohm watchcase receiver. Tuning condensers were a luxury. Tuning was done by adding on more turns to inductances or making bigger and better "loose couplers." HI! What a thrill to hear NAA times sigs on 2500 meters using the loose coupler and a crystal detector!

I had no pre-war license but like many others, had a transmitter anyway, using a personal call. (EA.) Xmtr was a spark coil retrieved from auto junk, energized by junk dry cells from the same source. Regular Saturday morning rituals: "make the rounds of the auto repair shops and collect up discarded dry cells and whatever looked inviting and usable." So it went until war was declared and we were closed up.

(Continued in next issue)

N. C. R.
Unit 3, Sec. 9

By H. D. Kimberly, W9CWM

The Lincoln Unit of the United States Naval Communication Reserve has begun to show life in a big way. The unit now has quarters in the Federal Building and assembled drills are held weekly. Uniforms have been ordered for those who rate them and all hands are digging in.

Radio drills are held on Monday afternoon and if you hear such calls as IC9X, IC9C and XX9X don't get excited, it is only the navy drill going on. The fellows are finding these drills a lot of fun and also a big help in getting the kinks out of ham procedure. ZZ?

The unit is composed of W9CWM, Acting commander, W9BKB, W9DEP, W9DFC, W9DI, W9DZK, W9FWL, W9FWW, W9FZX, and W9GBF. If you are interested in doing things and finding some worthwhile activity, drop around to Room 213 in the Lincoln Post Office on some Wednesday night.

TWO DOTS SPACE DOT

(Sequel to Mr. Kerr's story and brought out by references made by Wm. J. Bam-er's story in December ARF)

By Dr. L. G. Van Slyke, W7HX-WLVY,
"The Ole man—EX-7BJ, 7DH, 9ATE,
Hyattville, Wyoming.

AMATEUR RADIO FORUM read with much pleasure. This is going to be fine. We will be able to get in touch with a lot of old time friends and exchange some ideas worth while.

Mr. Kerr with his TWO DOTS SPACE DOT takes me back to 1889 when I started pounding brass at Strang, Nebraska, for the Burlington—then to Geneva on Fremont, Elkhorn, Missouri Valley line, then to the S.C. & P., Chgo. & Northwestern and what have you? Finally landing up in the sand hills of Nebraska and Cody shortly after old Sitting Bull and Two Strikes went on the war path and the U. S. staged a nice little killing at Wounded Knee. Well, any way, I stuck it out for \$45 per, copied train orders, kept books, heaved coal, shoveled snow and liked it. As a kid I got a kick out of helping Buffalo Bill get Ingins for his show. In later years I became a close friend of Bill's and see his grand children occasionally now and they are growing up to be a fine lot.

From Night Opr. at Cody I got a station and from station to Cashier at Chadron, Nebraska, then the trouble began—of course there was a girl mixed into it—and I got the grand idea of going to Omaha to make a dentist out of myself, which I did to the tune of becoming Supt. of the Omaha Dental College for several years, then in practice there until I caught up with a bunch of TB BUGS and was shipped out here to DIE (away from the Bugs I got well and all the bugs I have now is Two fine daughters who are Radio Bugs along with DAD).

(Continued in next issue)

ARF! ARF!

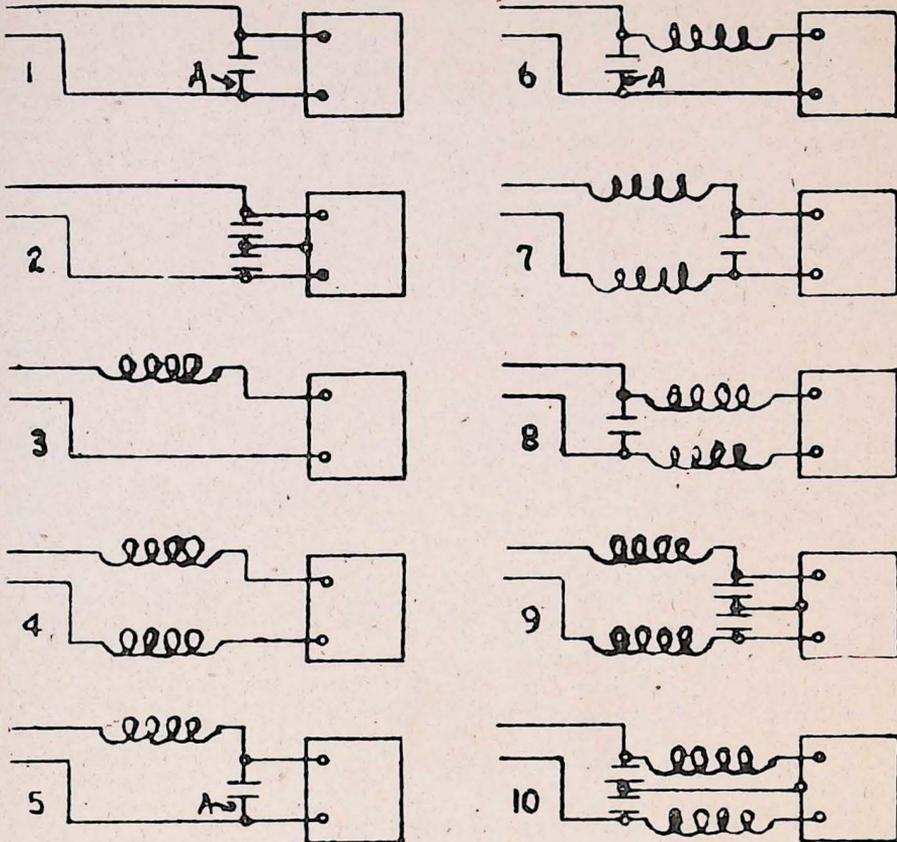
By: A. M. Westby, W9BNN
Heron Lake, Minn.
41 and full of fun!!!

Amateur Radio Forum,
Attention Mr. Clyde Wright.
Dear Wright:

The copy of Amateur Radio Forum received and thank you very much. Believe me I certainly enjoyed going through its pages. I wish for it all the luck and prosperity possible.

Regards Mr. 90PP spilling that hot one about me being a letter writer, well you tell him from me he is all wet. That bird from Wisner started that. We have been corresponding for some time, and

Apparatus Causing Interference



The following variations of the above arrangements are also used:

Condenser lead A of 1, 5 and 6 is connected to ground instead of to the second line.

The common point of the condensers in 2, 9 and 10 is connected to ground instead of to the frame of the apparatus.

MITIGATION OF INTERFERENCE TO RADIO RECEIVING SETS - COMMON APPLICATIONS OF CHOKE COILS AND BY-PASS CONDENSERS

he up and shows one of my letters to OPP, and OPP thinks I'm hot. If he thinks I'm hot he ought to see one of 9DHO's. He uses asbestos when he writes.

Laying the joking off to one side, will say that your little mag hit the spot. I like those little personal jottings about the hams in general, a little about what they do for a living and so on. That's why I get such a kick from ARF, and I'm looking for more.

We have been QSO couple times OM, and have your QSL here. It was back last June sometime according to my log. Heard you pretty regular about that time but not of late. Suppose the duties of editor hinder hamming somewhat. I'll be on the lookout for you, so we can have another QSO.

(Continued in next issue)

OUTLINE HISTORY OF COMMUNICATION (Radio, Land and Submarine)

The history of the communication is a most romantic tale of the efforts of a man to conquer time and space. As far back as the history of the world can record, man had felt the necessity of communicating with man at a distance. From the earliest times we find the use of visual methods of conveying messages, such as smoke signals and semaphores, for purposes of war and defense, and for the announcement of important news.

COMMUNICATION IN ANCIENT TIMES

The ancient Greeks employed a variety of signalling to a distance. One of their simplest methods consisted in erecting towers on hill-tops, in each of which was placed a tank filled with water and furnished with the letters of the alphabet on its side. When a tower wanted to signal another, it raised a torch at night until it was answered by a similar signal from a distant tower. Then water was made to flow out of a hole in the tank opposite the desired letter, and the torch was raised so that the receiving tower could note the letter. This operation continued until the message was completed.

When villages and towns developed closer contacts among themselves and nations began to rise and grow, the value of a rapid and effective means of communication was clearly recognized. Much thought and effort were spent in devising elaborate semaphore systems of telegraphy. But the results in rapidity were comparatively moderate until man discovered electricity and began to apply it to his needs.

(Continued in next issue)

OBTAINING GOOD GROUNDS FOR RADIO TRANSMISSION AND RECEPTION

L. S. Monroe
Copperweld Steel Company,
Glassport, Pa.

Grounds have been used as integral parts of electrical circuits since the earliest practical development of communication. Morse's historical circuit used two grounds, and the early telephone circuits had ground returns. This use of grounds as parts of circuits has continued up to the present time. Their uses in radio communication are well known but, too often, they have not been given the consideration which they should have in order to secure the best results, both in transmission and reception.

The very simplicity of a ground has probably been the reason it has generally not received the attention which it should have, comparable to some of the other features of radio construction. Like most other electrical connections, a ground should have low resistance, be mechanically secure and permanent.

The driven type of ground electrode is the standard now generally adopted for artificial grounds. Many advantages are found in using the driven type of ground electrode as compared with buried types. These advantages relate to the manner of installation, making connections, inspection, ease of adding additional electrodes, treating the soil to reduce ground resistance, etc.

It is possible to make grounds meet almost any practical requirement. There are, however, economic limitations. For many installations, a fairly large amount of money may be invested to secure good grounds, while in others only limited expenditures are justified. However, in all cases it is desirable to have the best ground obtainable for the amount invested. It is advisable, therefore, to know just what are the factors which determine the adequacy of grounds; depth, size of electrodes, material, contact area, soil, etc. It is with these questions in mind that investigations have been made to determine the relation between the physical characteristics of driven grounds and their electrical properties.

(Continued in next issue)

Enid Okla., Club: E. A. R. C. organized in 1933, October 24, to be exact, with W5CEB P. F. Hoover, 907 E Maple President; W5BJT C. D. Hahn, 2112 E Randolph Vice President and W5BDX A. J. Burton, 760 E Walnut St. secretary. Meetings third Tuesday each month, Masonic Temple at 8 Bells. Mem-

bership: CEB, BJT, BDX, WCMW, FJ, APC, CVR, CPC, CWL, DRB, CVM, CPN, AVP, of Enid; ATJ, Pond Creek; ATV, Menlo Park; AXE, Hennesy, Okla., and Mr. C. Harrison of Enid without a call letter . . . all these Fifth districters are out for rapid fire exchange of ideas and the get acquainted idea.

Oklahoma State Convention, Semi-annual joint meeting of PCKK and TARC will be the Oklahoma State for 1934 and the only one for 1934. Representative ARRL Mr. Frank Corlett West Gulf director. Headquarters JENS-MARIE hotel with registration \$1.00 and 65 cents for YL's and OW's. Address manager Mr. R. B. Miles, 1402 South 5th St., Ponca City, Okla. Ponca City is much bedecked with fitting dress suits and flags to welcome the visitors who will be entertained with wonderful programs and many prizes. C. L. Simpson, W5CEZ Secy. PCKK. Dates: 20-21 Jan.

FLASH—W4PL has a new bug. Santa in person of Mrs. 4PL? Benton White at Sheperd, Tenn., has one more unit of equipment to keep policed up and adjusted!!!

Sunday, Dec. 17 . . . found the editor surrounded by W9OPP, X9CR his twin brother; W9DHO, "Norm" Mack W9KVZ, "Slim" Stribling, Walt Ecklebe, Kenneth Kimball, "Bill" Riaski, and last but not least Milo Haluska . . . all of us plum nertz, at first, but finally got down to business . . . Raddio a la Al Smith and from what I can draw from the noise Verbal Qso being quite evident, the "big bad wolf" in hamming is that "gettin' out" bugaboo . . . antennas. Watsa fellers on Aunties?

Pickett, A. F., 2715 Taylor, Omaha, Nebr., W9PDE, writes as follows: (12)

"Allow me to extend to you, my best wishes for the success of Amateur Radio Forum. It has been a great pleasure to read the first issue. A lot of entertaining items about Hams in the territory adjacent to Nebraska, and articles of interest, by some of the old-timers. And I am sure that it will, in time, prove to be of value to all readers.

"Incidentally, I am going to take advantage of your offer, and enclose \$1.40 for a year's subscription, and a copy of the late call book.

"Was formally (?) initiated into the A. R. O. C. at the last meeting, and must say it's fb. Nice bunch of fellows, and more than glad, that I am now one of them."

(Edr's. Note: Mr. Pickett has a

younger brother—W9GBP—ZZAP, 511 N 14th, Manhattan, Kas., 3504 KC, MOPA, Ronald, now attending college.)

Shortest letter yet received: W9-EHA, Marvin W. Armstrong, Moran, Kansas, holds the record so far with: "Watsa?"

Can you beat that one? Try and see whats in store for you.

Shortest poem received so far:

Izzy funny?
An eccentric waif;
Swallered money,
Playin' safe!

Seventy-three . . . some one from New York state sent this in:

We've finished now, no more to say
So we will make it "30" call it a day
In closing, friends, wherever you be
We're extending to you, our "73"

Anon . . .

You try one. Edr.

Classified Ads

Out of QSL's? Ask A.R.F. fer figure.

For Sale: 3770 Crystal \$2.00 . . . it's a good one, too. On the dot! Write care ARF . . . file No. 109.

For Sale: Audio freq. transformers . . . ani make ani ratio . . . 25c postpaid. File 36 care ARF.

Wanted: A. C. receiver . . . what have you? Write care ARF . . . file 8.

Wanted: 50 watter sock-it . . . write care ARF . . . file 7 . . . tell all about her and that price must be r-i-g-h-t.

WANTED: Agents for A.R.F. . . . write under personal cover to C. F. Wright, 3320 King St., Omaha, Nebr., for details and contract forms.

FOR SALE: Or trade, one 1200 V 500 MA gen. complete but 1½ HP motor. W9EWO, Don Griffin, Bx 53, Kearney, Nebr.

Transformers: Wound, any size, any voltage by W9EWO, Don Griffin, Bx 53, Kearney, Nebr.

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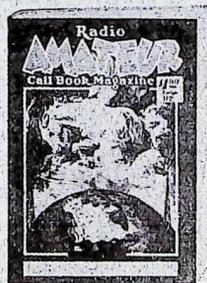
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(12 months)

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Amateur Radio Forum 6 mos,60

Total, \$1.70

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Fifty-five Cents Saved!

NOTE: No agents' commissions paid on this subscription offer.
Offer expires January 31, 1934

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