



HAM HUM

AK-SAR-BEN
RADIO CLUB
INC.

WØEQU

February 1959

P.O. 626

Omaha 1, Nebr.

Vol. IX, No. 2

"Buddy Night" - February 13

Our next meeting, Friday the 13th, will be known as "Buddy Night." This contest is a little different than the usual in that there is no prize, no teams - the winners will be the ones who bring buddies. What do they get out of it? Only the satisfaction of renewing friendship or gaining friendship with a fellow ham or one interested in amateur radio.

So pick up your phone or get on the air and arrange with your buddy to come along to the club meeting on Friday, the 13th, at the usual place - the 4-H Building, Ak-Sar-Ben Field. Or, even call that new
C n down the street that you have been wanting to meet anyway. Bring him along to learn how to align a receiver using only a signal generator

and a vacuum tube volt meter. John Orr, WOPHW, will either refresh your memory or if you do not now know will show you how to do it.

The second part of our meeting will be the first part of a three-part lecture on the Oscilloscope by Cecil DeWitt, WØRMB. Following that will be a demonstration arranged by Ed Gutmann, WOCQX, of the use of the BC 1335 which is now being used by the Fremont Club and others for a mobile net for fun and service. For your information this is a two channel fixed frequency transceiver which can be set with one channel on 6 and one channel on 10 with very little modification and best of all for very little money. Come out and see it!

Ham Hum

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request.

EDITORS
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Dick Eilers, W0YZV



NEW PRODUCTS

HEATHKIT "SENECA" VHF-1 TRANSMITTER KIT

The Heath Company of Benton Harbor, Michigan, has informed us they are now making delivery of the VHF-1 upon receipt of order. This is a transmitter capable of an input on 6 meters of 140 watts CW and 120 watts phone. For 2 meters an input of 110 watts CW and 95 watts phone. It includes controlled carrier

phone operation, has built-in VFO for both 6 and 2 meters, and four switch-selected crystal position. Panel controls allow VFO or crystal control, phone or CW operation on both amateur bands.

The "Seneca" consists of two power supplies, five r.f. frequency stages, and two dual-triode audio stages. A pair of 6146's operating push-pull in

Single Sideband - Part 9

Note: V4 and V5 were erroneously specified as being 12AV7's, when they should be 12AU7's, and V7 was listed as a 6AV6, when it should be a 6AU6. It has also been brought to this writer's attention that some people planned to use the Guardian "200" series relay assemblies. The author has tried this, and found that by using two series "200" relay assemblies in series, the relay does not operate together, and is NOT satisfactory. One of the relays previously specified, such as the Potter-Brumfield KCP 14, Advance SD-3C, or Automatic Electric R-45L, must be used.

The power supply shown this month is shown as a suggestive guide only. The design of the power supply is open to considerable variation. The main power transformer specified is a Zenith television replacement unit, part number 95-1323, and may be ordered from Major Appliance Co. in Omaha.

If this transformer is used the color coding on the wiring is as follows: the gray and gray-pink wires are the primary, the green wires are the 12.6 volt filament winding, the green-yellow wire is the center-tap

on the 12.6 volt filament winding, the red-yellow wire is center-top on the high voltage winding, the two yellow wires are one 5 volt rectifier filament winding, the two yellow-black wires are the other 5 volt rectifier filament winding, the two red wires are the full high voltage winding, and connect to the rectifier that gives 450 volts D. C. output and the two red-black wires are the taps on the high voltage winding, and connect to the rectifier that gives 300 volts D. C. output. T6 is used to furnish bias for the exciter, and its filament winding is not used. When wiring the filaments of the exciter, be sure to keep the loads on the two halves of the 12.6 volt filament winding fairly evenly balanced. The center tap on this winding is grounded to provide two 6.3 volt sources. When adjusting R40, procede as follows; insert a 0-50 ma milliammeter between the cathode of v13 and ground, breaking the existing connection. Adjust the resistor until the current is about 10 ma. Be sure to turn the exciter off and ground the power supplies when adjusting this resistor. This can only be done after the

exciter is completed. If desired, SW3 may be omitted. R37 adjusts the bias on the final amplifier, and R39 adjusts the bias on the driver stage. Whatever power supply is constructed, the requirements are as follows: 300 volts D. C. at 200 ma.; 450-750 volts D. C. at 200 ma.; 150 volts D. C. regulated; 6.3 volts A. C. at 8 amps; -100 volts D. C. bias; and sufficient filament power for the rectifiers. There should be as much filter capacitance in the power supply as practical.

V8 is a mixer which combines the 457 kc. SSB signal with an oscillator signal from V9 to give either upper or lower sideband output at 4.55 mc. T5 is a discriminator transformer with the center-tapped secondary used in this application as the primary. The D. C. source for the mixer is routed through the VOX relay, to control the whole exciter. The wire from the oscillator is shielded, and the shield grounded at both ends.

The oscillator is crystal controlled for maximum stability. One section only is used at a time. Which section is being used determines which sideband is being transmitted. SW4 controls this function.

NEXT MONTH: The VFO and the VFO mixer.

Harlan Bercovici, KØBHT

- C26 - 40 uf, 150 V.D.C. - electrolytic
- C27, C28, C31, C36, C39 - 0.01 uf-600 volt ceramic
- C29 - 40 - 40 uf, 500 V.D.C. electrolytic Cornell - Dubilier B0530
- C30 - 40 - 40 uf, 450 V.D.C. electrolytic Cornell - Dubilier B0450
- C32, C33 - .005 uf, 600 Volt Ceramic
- C34, C35 - .002 uf, 600 Volt Ceramic
- C37, C38 - 50 uuf, 600 Volt Ceramic

- CH3, CH4 - 2.5 mh RFC
- CH5, CH6 - Stancor - C2334

- R35 - 68 K ohm, 2W
- R36 - 33 K ohm, 2W
- R37 - 100 K ohm, 2W Control, Mallory M100 MKP
- R38 - 82 K ohm, 2W
- R39 - 20 K ohm, 1/2W Control, Screwdriver adjust
- R40 - 10 K ohm, 30W Adjustable Wirewound
- R41 - 3,3 K ohm 2W
- R42 - 2,2 K ohm, 2W
- R43, R44 - 100 K ohm, 1/2W

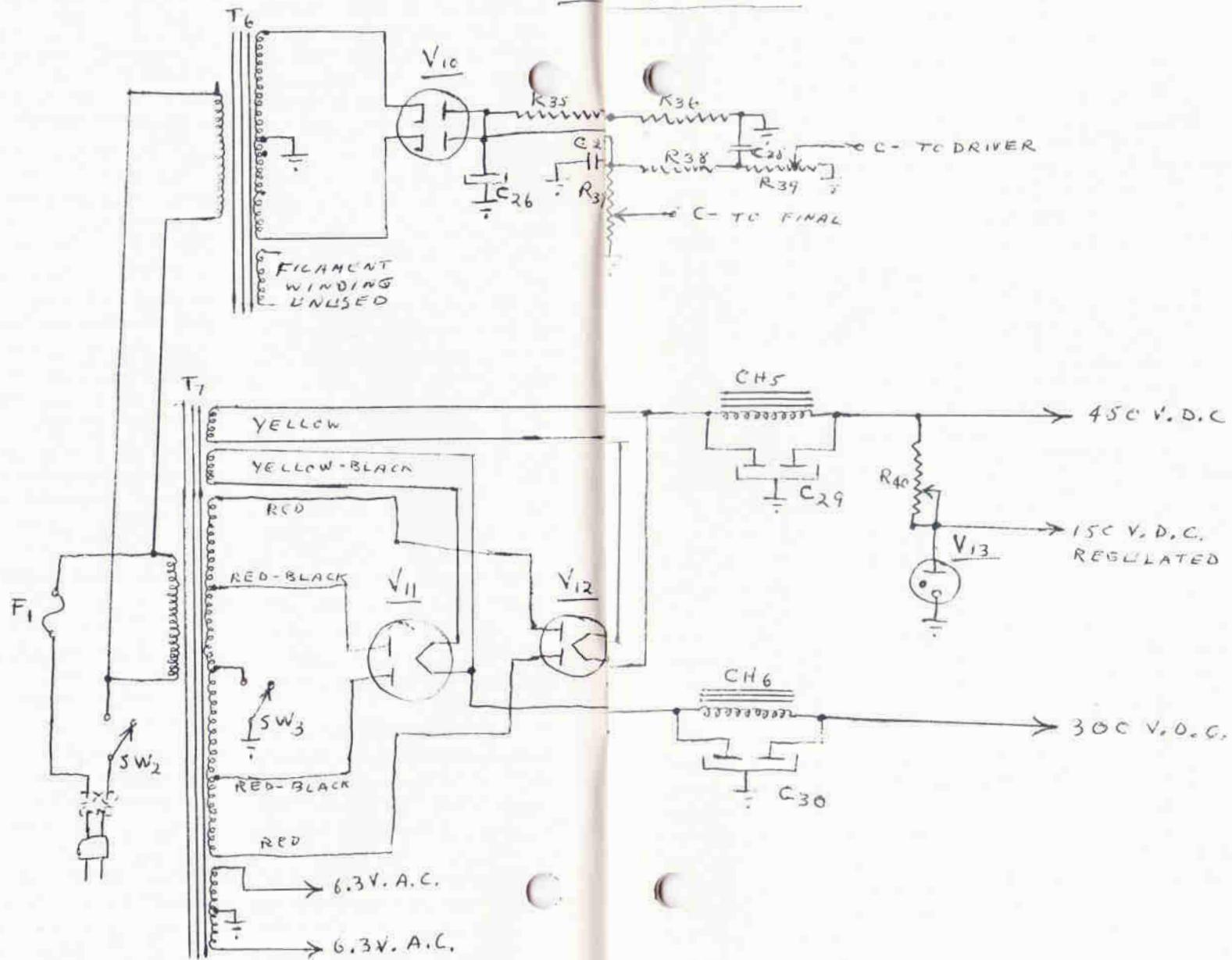
- SW2 - SPST - Toggle - Power off-on
- SW3 - SPST - Toggle - Standby - Operate
- SW4 - SPDT - Toggle - Sideband Select

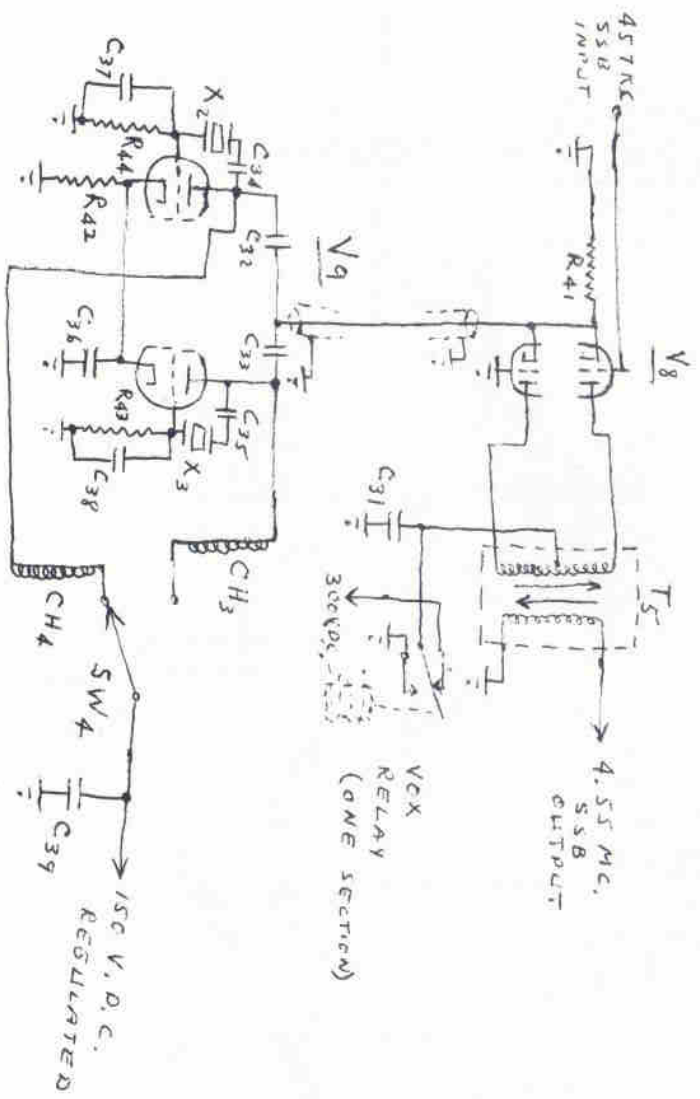
- T5 - Miller 6204
- T6 - Stancor - PS 8415
- T7 - Zenith 95 - 1323

- V8, V9 - 12AU7
- V10 - 6AL5
- V11, V12 - 5U4GB
- V13 - OA2

- X2 - 4093 KC - XTAL
- X3 - 5007 KC - XTAL

POWER SUPPLY





Frank Cooper, our old friend, WQIOS moved to the East coast some time ago as many of you know. Frank went to WI land first and got back his original call of WI10S. Recently Frank moved to New Jersey and naturally applied for W2IOS. Lo and behold the new ticket arrived and Frank now has WA2CRF and we understand Frank isn't the least bit happy about it. Well Frank, at least it has a W and a 2 in it so it's fairly close.

We still have unclaimed QSL cards from last summer. Among them are cards for KNQOBF, KNQLOO, WQUKA, KQKNJ and KQMR5.

A few days ago Al, WQJJK had the pleasure of a long telephone QSO with our old QRM contributor Art, the Quack Medical Doctor. Art is now at Memphis, Tenn., and still baking for "Mother Pillsbury." A dipole is up for 40 and it looks like Art is getting the urge to put his sky hooks up again. SSB is also in the trial stages and QMD may really be Quacking in the future if the injection "takes." A new call is expected soon so keep a sharp ear peeled for a Memphis boy with a "furriners" accent. Present call - W4CWW.

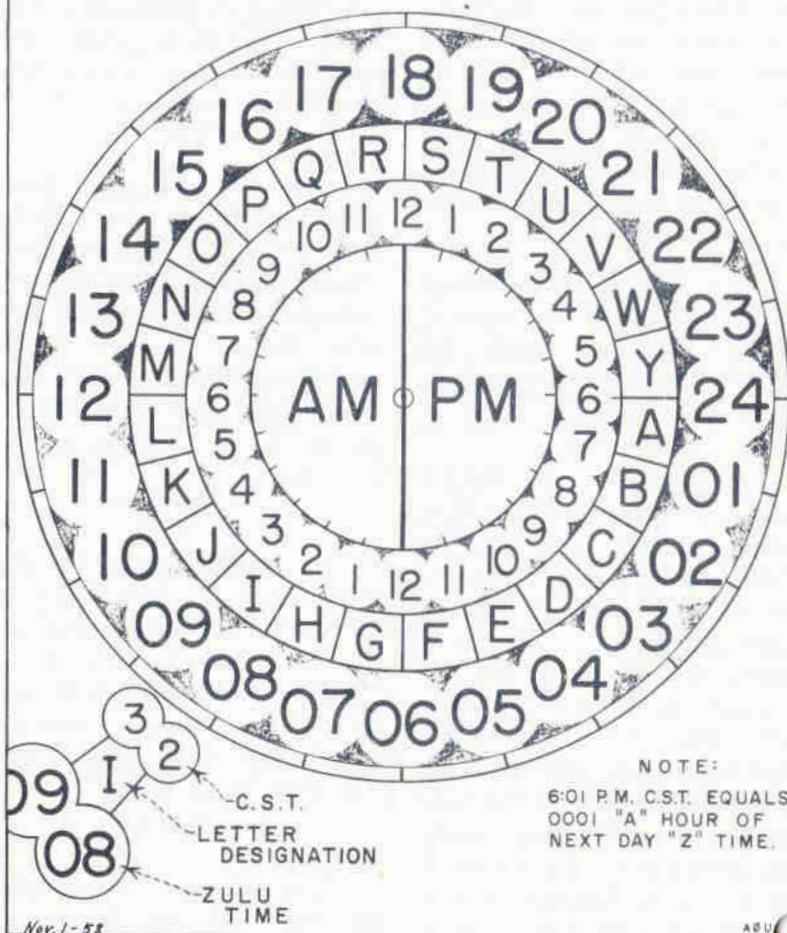
Globe Electronics is coming out with a new "Patcher" and we assume the name reveals the equipment. A picture just released shows it to have all the Dix features and it is physically packaged to be very convenient to mount in any number of places, including under the phone since it's just the same size as the base of a phone.

K9BXV was the guest one evening at the WQJJK QTH. Len(K9BXV) is from Palos Park, Ill., and a traveling salesman. Len's car was left with WQJJK to have mobile gear installed(Elmac) and that is why some heard WQJJK mobile again. (Had to test it you know).

Stu, WQMG C is on the move again. I don't know if the location is classified so will only say he will be a "gobbler." The new QTH will be M/Sgt. Stuart Brierly, 2006th AAC S Sq., APO 289 New York, N. Y.

Les Reeves is planning on SSB with the change of station to include a CE 10B exciter, P&H 6 meter mixer and P&H 6 meter amplifier.

CONVERSION CHART
CENTRAL STANDARD TO ZULU-WORLD-TIME



(From DARA QMN BULLETIN,
Detroit A.R.A.)

MORE ABOUT THE HAM TV TRANSMITTER

The first commercially-
available amateur band TV trans-
mitter has been developed by
Electron Corporation a subsidi-
ary of Ling Electronics, Inc.,
Dallas, Texas.

Named the "Ling-Mitter,"
the TV transmitter is designed
to operate on the FCC-alloc-
ated 420-450 MC amateur band
at the maximum permissible
power of 50 watts. With a proper
antenna, TV signals can be
transmitted 30 to 40 miles.

The general public will be
able to view the ham telecasts,
it is said, with the addition of
of a special UHF converter to
their present TV sets. (The
signals are video only).

The complete TV package
station being offered to some
150,000 licensed radio amateurs
consists of Ling Spectator TV
camera, the Ling-Mitter, video
monitor, antenna and accessories.

In each city where ham TV
stations are established, effort
to regulate individual trans-
missions will be needed. If,
for example, 30 hams establish
stations in one city, voluntary
regulations must provide for
no more than 10 to transmit at
any one time; each ham would
be given a 3 MC band width,
thus utilizing completely the
30 MC spread between the 420
and 450 MC band.

FOR SALE

One unused tube caddy; one
open relay rack (not a cabinet),
with 21" panel space; one
6" speaker, mounted on a
7"x19" panel, made by Com-
munications Co.; one ATR
6 volt battery eliminator; Com-
plete set, RCA Pict-O-Guide,
out of print and unavailable
now; one commercially made
3 element 20 meter beam;
one commercially made 4 element
10 meter beam. Make any reason-
able offer on any of the above
items. Call KØBHT at PI 3905.

(From HAMATEUR CHATTER,
Milwaukee R. A. C. Inc.)

FIVE SHRIMP BOAT CAPTAINS CONVICTED OF USING PRO- FANITY OVER THE AIR

The Commission's crack-
down on the use of indecent and
profane language over marine
radio frequencies has resulted
in the conviction of five Florida
shrimp boat captains in the
Federal Court at Tampa for so
violating the United States
Code.

They were fined \$500 and
sentenced to 18 months im-
prisonment, but the jail sen-
tences were later suspended
after promising to obey the
law. The FCC will also suspend
the radio licenses of the of-
fenders when justified.

MORAL: HAMS WATCH
YOUR LANGUAGE, THIS COULD
HAPPEN TO YOU!

(From GBARA/CBN BULLETIN,
Grey Bruce ARA & G.B. Net.)
WHY WORRY? by R. W. Roberts,
VE3NG, SCM, Ontario.

There are only two reasons for worry; you are either successful or you are not successful. If you are successful there is nothing to worry about; if you are not successful, there are only two things to worry about, your health is either good or you are sick. If your health is good then there is nothing to worry about; if you are sick there are again only two things to worry about. You are going to get well, or you are going die. If you are going to get well, there is nothing to worry about. If you are going to die, there are again only two things to worry about. You are either going to Heaven or you are going to Hell. If you are going to Heaven, there is nothing to worry about; if you are going to Hell, you will be so busy shaking hands with your old friends, you won't have time to worry at all!

(Special to CQ NEWS from
Lester Lauritzen.)

"In order to be of assistance to those who need a South Dakota QSO and QSL for W.A.S. a group of South Dakota Amateur Radio Operators known as War-Whoop has made arrangements for a South Dakota weekend for DX stations. This weekend will begin 2300 GMT February 12

(From VE3SRC Calling, Scarboro ARC.)

NEWS ITEM The B.B.C. in collaboration with Electric and Musical Industries Ltd., are testing a system for transmitting stereo sound over a single radio channel.

How say we in surprise... Basically the system involves separating the sound program from the directional information at the transmitting end. At the receiving end, the directional signal by operating on the program signal, produces the stereophonic effect through two speakers.

Only a very narrow band is required for the directional information, and the range of the transmitter is not appreciably reduced.

WANTED: A Master Mount type 132 Jr. only, clean. Will buy or trade. See WØJJK.

13 and will continue until 2300 GMT February 15. South Dakota stations will monitor the lowest 25 kc in each band 80, 40, 20, 15, and 10 meters for CW stations and the lowest 25 kc. of each phone sub-band for stations calling CQ SD.

VHF NEWS

Dear Editor:

Here is the VHF column for for January - also enclosed photo. The VHF sweepstakes of Jan. 10 and 11 was noticeably better on 50 mc. than on 144 mc. in fact, the 50 mc. activity for the contest was possibly the best ever, at least in the Nebraska section. Several Omaha stations had very high scores WØYZV, KØLYO, KOCIA/O and many other stations had some outstanding scores. This was helped greatly by the band openings on 6 during the time of the contest. Six opened up to several areas on the evening of Saturday, January 10, and some short skip was coming in during the daytime on Sun. the 11th. Watch QST for later publication of the scores.

Two meters didn't seem to have very much activity for the contest as usual, and the and the Iowa section was conspicuous by its absence. We usually can count on some of the Iowa fellows such as WØSMJ at Indianola, and WØBFB at Mitchellville, but they sure weren't there this last time.

In the January issue of "Sparks," the publication of

the Council Bluffs Radio Club, the VHF editor reports that 2 meters is apparently a "dead issue" in Council Bluffs and I will sure go along with that! The last station from the Bluffs I have heard was KØJIU, Leo who was on very briefly with a borrowed Gonset last fall. Also miss hearing Terry, WØCJD who was on 2 meters for a short time last summer. Wonder what happened to him?

We were also wondering what has become of Millard WØNRT and after checking with him, found out that his 6 meter beam has a broken connection or something like that and as soon as the weather is a little better he will remedy the situation. Millard also mentions he has been doing some occasional listening on 6 and says that the operating technique of some stations on six leaves a lot to be desired. Well, we will have to concur on this and it's probably more or less true on other bands. Such things as leaving an unmodulated carrier on without any I.D. are illegal and remember FCC can make checks with mobile units to locate the source of such signals.



The 6 meter man seen in the picture is John 'Mac' McGovern, KOMSS. Mac is quite active on 6 meters and also operates on the MARS frequencies. Mac uses a ranger and a Johnson 6N2. Receiver is a Hallcrafters with a home-brewed dual 417A pre-amp. for 6 meters.

Anyone interested in joining the VHF MARS net should contact Mr. Loyson Troth KOBRS AFAØBRS in Bellevue, Nebr. Loyson's phone no. is BE 2418. The VHF MARS net meets on a frequency of 143.46 mc. for the Omaha area.

All for this time.

J. D. Snyder, WØWRT

(From the SIDEBANDER, SSB ARA.)

TVI CURE? November 1958 Popular Science lists the new 1959 model TV sets. It is interesting to note that out of a total of 46 models listed, only 18 come equipped with built-in high pass filters. Bill Lahiff, W2IVT, suggests that we publicize the names of the sets having filters in the hope that other manufacturers might follow suit. What do you think?

(From the LOG, Flint Hills A.R.C.)

MAKE YOURSELF KNOWN- Hams in larger cities can make it easier for visiting hams to locate them by having their call listed in the telephone directory. This listing costs only 30 cents, and all listings are carried together. - Ham Monitor, Marquette, Kan.

MARCH OF DIMES

Another March Of Dimes has been concluded with operators on both 6 and 10 meters in attendance, making over 100 pickups of money, and thus assisted in the completion of another successful March Of Dimes drive.

We are very sorry that we do not have a full list of those participating and rather than slight anyone will not, therefore, list any names with the exception of the organizers: Dave Hollander, W0CJW, President of the Club, and Ed Gutmann, W0CQX, Douglas County Radio Officer.

A three-way link was established on 6 meters using the Civil Defense communicators and thus giving the information to the two net control stations, the one at W0RMB for the 6 meter net control and the other at K0EQK, the 10 meter net control. For a full report on this drive and for a discussion of future drives of this nature, bring your ideas to the meeting.

SILENT KEY

Many of our members particularly the oldtimers, will miss Guy Bailey, W0KJB, who passed away last month.

HEART FUND - SUNDAY, FEBRUARY 22nd

On February 22nd the Heart Fund Association has asked us to again help in their annual collection. This being a Sunday afternoon it should be easy for all of us to get out and get the mobile warmed up. We are guaranteed good weather (Oklahoma guarantee) so make your plans now. Either report in to one of the Civil Defense nets or give the information of your availability to either Ed Gutmann for the 10 meters or Cecil DeWitt for 6 meters. The more mobiles we get the better job we can do so we need YOU.

(From the SIDEBANDER, SSB
A.R.A.)

AND THE LORD SPOKE.

Bob Gunderson, W2J10, got a complaint recently from the priest of a church around the corner from the New York Institute for the Education of the Blind, where Bob teaches. Bob's radio transmission from his kilowatt AM Tomco rock-crusher were coming in on the church's new public address system. As the priest told it, just as they came to the part of the sermon where it was written, "And the Lord spoke," in came Gunderson crashing through the P.A. system calling, "CQ 75."

FOR SALE:

1. WRL Globe Chief (Experimental model--first one ever built and it works well, too.) With tubes, modified for screen modulation complete with homebuilt screen modulator, microphone, cables, antenna relays and 8 amateur band crystals. Less cabinet but including instruction book. --\$45.00---
2. 40 lb. of coils and variable condensers. Transmitting as well as receiving types. --\$10.00---
3. 60 lb. of miscellaneous parts--transformers, chokes, filter conds, terminal strips, switches, etc. --\$15.00---
7. Surplus BC-453 (Q5'er) converted for use with receiver such as SX-25, S-40, etc., having IF in range from 190 to 550 kc. Complete with connecting cables, power supply, less 6X5 rectifier. In excellent condition. --\$12.98---
9. Over 2,000 feet #14 DSC Copperweld Antenna Wire. --\$25.00---
10. Dynamotor with starting relay and noise suppressors. Mounted in a frame. Input 12 VDC @ 10 Amps, output 275 VDC @ 110 Ma. and 500 VDC @ 50 Ma. --\$9.00---
11. Large assortment of chassis, cabinets and cases. --\$2.98---
12. Hallicrafter S-38C receiver. Feedback type (regenerative) BFO wiring removed but can easily be rewired. Otherwise in A-1 condition with instruction booklet. --\$29.95---
13. Hallicrafter SX-25 receiver. Big bandsread knob, 6H6 detector changed to crystal diodes, 100 kc. oscillator including crystal and 6J6 TR switch for 52 ohm coax added. Output tubes changed to push-pull 6V6's. Includes headphones with ear cushion and instruction booklet. In excellent condition. --\$85.00---
15. Home-made 3 element close spaced plumber's delight ten meter beam using 7/8 and 1 inch aluminum tubing with diagram and over 20 feet heavy 300 ohm twin lead. --\$15.00---

John Hartung, KØGPR, 3102 S. 72 Ave., Omaha 14, N
Phone REgent 1662 after y P.M. or on weekends

"THE CITIZENS' BAND"

The old 11 meter band withdrawn from amateur use is now known as "THE CITIZENS'

AND" and for voice communications there have been 22 different channels assigned. Several channels in the band have been reserved for special purpose use, such as remote control of models, etc. The 22 voice channels are of prime interest and in the near future they should see a great deal of use.

Complete information on the on the regulations may be had by sending 15¢ in coin to the government printing office in Washington. Ask for Citizens' Band regulations, part 19, as amended.

The class of license of most interest is the allocations for class "D" operation. The equipment may be commercially made or homemade of good design. In the latter case the best and least complicated class is to have the units crystal controlled to .005% tolerance. VFO units can be approved but the process is too drawn out for the average person. The power input is limited to 5 watts and maximum bandwidth is 8 kc. (4 kc each sideband.)

One or more units can be used in a group, including mobiles. All those operating as a group are licensed as a group.

You can set the equipment on one frequency or insert crystals for several of the assigned channels and switch in case of interference.

The antenna height is controlled to keep from causing too much interference, a nominal height of 20 feet above an existing man-made structure, such as the roof of the home or office building.

The FCC form 505 is required to submit an application.

Put your equipment together, have it licensed and then you can call the XYL while on the way home and tell her to heat up supper or dream up your own use.

(From the AUTO-CALL,
Washington Mobile R.C.)

One race horse said to another, "Boy am I pleased, my trainer said today that if I won the race this afternoon, he would give me ten bales of hay." Said the other race horse, "Boy, That ain't money."

The mother and two boys were walking along the dike in Holland. The boys strayed on ahead. After awhile one of them looked back and could not see his mother, apparently she had slipped off the dike into the water. Said the boy to his brother, "Look Hans, no Ma."

OFFICIAL BULLETIN NR 687
FROM ARRL HEADQUARTERS
WEST HARTFORD, CONN.
JANUARY 22, 1959 TO ALL
RADIO AMATEURS \overline{BT}

The Federal Communications Commission has issued a notice of proposed rule making, Docket 12728, to permit Technician Class operation in the amateur 144 Mc. band. Reasons cited are more occupancy, possible contributions to technical knowledge and more participation in civil defense activities. The final comment date on this proposal is March 31. Details will appear in March QST \overline{AR} .

OFFICIAL BULLETIN NR 686
FROM ARRL HEADQUARTERS
WEST HARTFORD, CONN.
JANUARY 12, 1959 TO ALL
RADIO AMATEURS \overline{BT}

Effective date of the FCC order creating cw only bands of 100 kc each at 50 and 144 Mc has been delayed at ARRL request until further order pending the Leagues or other possible filing of petitions for rehearing by March tenth. League request was based on fact that FCC order had assigned bands which may not accomplish objectives sought for propagation studies. This action means license privileges in these bands remain unchanged until further notice. \overline{AR}

29.5 Mc

In the past, it has been the practice of many mobiles and fixed stations to time or listen to the 10 meter band, and hearing nothing, turn their receivers off with a shrug indicating that the 10 meter band "is for the birds."

It has been suggested, that in order to overcome that "frustrated feeling" when the 10 meter band is dead, that all Omaha amateurs, fixed or mobile, concentrate their calling and listening to just 29.5 Mc.

If we do that, then a contact or QSO should be available at any time one wishes to have one. It will give the mobiles their needed break when they are in need of a contact while in motion.

It will afford all other s. an immediate contact whenever they wish to have one; so, remember gang, let's make 29.5 "hot" in Omaha with the slogan "Keep 29.5 alive."

DX NEWS

John KWB and Larry KCK worked HS1B on 10 meters in the evenings.

John KWB had a 50 minute SO with WQYOF of Kansas and KA2DD. All stations were Q5.

Sunday, February 1, was a lucky one for YZK, KWB, KCK and NKG as CEØZC was snared on 10 meter fone.

KCKLarry has been taking a little time off from phone patches to get some very nice ones. John KWB has 27 confirmations and around 50 worked.

De De is on SSB DX hunting but am getting no report. Mac is getting tired of missing the rare ones during the week and is working like a beaver to get the mobile going.

The boys in Omaha have been giving Danny on the Yasme II a run for the money; YVV-4 times, NKG-5 times, Orville GKL-4 times so far.

FOR SALE: 1 - 500 Watt Phone Rig. Dual rack, room for expansion. An excellent buy. TCS - 12 & 9 - 75 Watt CW - 50 Watt phone, complete with rec - 12VDC PWR supply, loading coil, remote control (or local), hand key, mic, cables. Price reasonable. Stop by and see.

Hal K. Allm, WØFYR
4011 Cuming St.
Omaha, Nebraska
Phone: WA 8461

OFFICIAL BULLETIN NR 688 FROM ARRL HEADQUARTERS WEST HARTFORD, CONN. JANUARY 29, 1959 TO ALL RADIO AMATEURS BT

Judging for the 1958 Edison Award has been concluded. Julius, M. J. Madey, K2KGJ, was proclaimed winner in view of his efficient and continuing service in handling messages with the Antarctic, the far north and Pacific points. Special citations were also announced for Andrew C. Clark, W4865, for an outstanding record in emergency organization and leadership, to Kenneth M. Blaney, W6PIV, for satellite reporting and civil defense work and to Loyd A. Peek, W7BA, for his noteworthy communications efforts for service people and others. Presentation of the Edison Award to K2KGJ will be made at a ceremonial dinner in late February in Washington, D. C.
AR

The Sandhills Amateur Radio Club has been organized in the Alliance area with WQZHV as president, WQRIN - vice-president and WØNIK - secretary-treasurer.

73,
Emil Von Bargen, WØNIK
Alliance Nebr. Rt. 1

AK-SAR BEN RADIO CLUB INC.
P. O. BOX 626
OMAHA, NEBRASKA

NEXT MEETING
AK-SAR-BEN 4-H BUILDING
AK-SAR-BEN FIELD
FEBRUARY 13, 1959
8:00 P. M. SHARP