

HAM HUB

AK-SAR-BEN
RADIO CLUB
INC.

WØEQU

June 1959

P.O. 626

Omaha 1, Nebr.

Vol. IX No. 6

NEXT MEETING

JUNE 12, 1959 - 4-H BUILDING
AK-SAR-BEN FIELD - 8:00 P.M.

The next meeting of the Ak-Sar-Ben Radio Club will be held at the usual place and time. Be sure and come a little bit early so as to have time to have time to see the Treasurer about your dues. This will be the last meeting before the deadline on increased dues. Any dues paid at this meeting will be on the old rate of \$5.00 per year. After July 1st the dues will be \$6.00 per year. Also, this will be an ideal time for you to turn in such new members as you have for the membership contest. Don't

forget the dinner that comes free from the Club for turning in four new members.

Between now and the meeting look around for new antennae in your neighborhood. You will find at least four - maybe more.

After the business meeting and customary raffle, we will have a talk by Royal Enders, KØLYO, who will have for his subject "Transistors and Their Practical Application in Oscillator and Power Circuits." Royal is connected with DELCO and United Motors and as such

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Ham Hum

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EDITORS
Al McMillan, W0JJK
Dick Eilers, W0YZV

(Continued from front cover)

has been explaining these little gadgets to auto and radio personnel and will give a very interesting presentation. He promises to stay with common ordinary language and simple explanations and will be glad to answer any questions you may have regarding the use of transistors.

This will be followed by the usual refreshments and gabfest.

FIELD DAY

The field day rules are listed in the June 1959 QST which reminds us that our own field day committee is progressing with their plans and will give a full report at the Club meeting. Field day is June 27th and 28th.

A MATTER OF INTEREST (From QRZed Ramona Radio Club Inc.)

As a matter of interest President Eisenhower has written a message which will appear on the QSL Card for our special events Radio Station K6USA. The message is as follows: "GREETINGS ON BEHALF OF THE 185,000 AMATEUR RADIOOPERATORS IN THE UNITED STATES AND TERRITORY, PLEASE EXCEPT MY PERSONAL THANKS FOR CONTACTING OUR SPECIAL EVENT RADIO STATION K6USA." SIGNED, DWIGHT D. EISENHOWER. The QSL card will be 5x8 inches and will be sent in an envelope for protection. Postmaster General has authorized a special casket with the emblem of C.C.I.R., California and date of mail. This will be a collectors item.

VHF NEWS

Gentlemen:

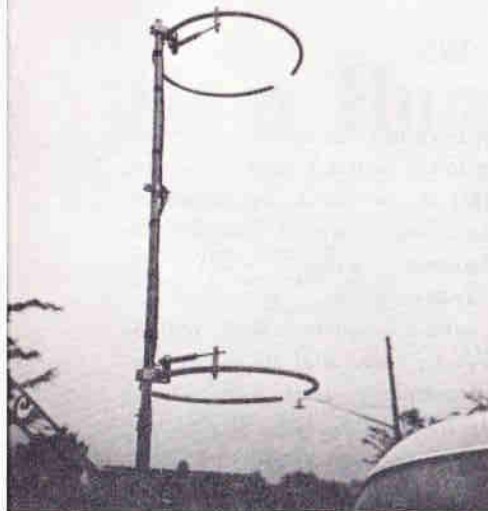
Here is some recent v.h.f. news and some other information of v.h.f. interest - The recent v.h.f. contest of April 25th and the 26th showed surprisingly good activity on 50 mcs. However, the activity on 144 was darned poor compared to the CQ contests in the past. I personally believe that the new scoring system of CQ's is responsible for the lack of 2 meter interest. (No multiplier for working the extra band or bands.)

Just received some news of the MARS' "Operation Leapfrog" and of the part worked by Frank Parsons, WØEMS in his direct 2 m. c.w. contact with WØIFS/ AFØIFS in Minneapolis. This operation took place on Saturday, May 16th, and involved a message relay circuit which originated in Minneapolis, Minn. southbound and at Corpus Christi, Texas for the northbound message. Frank copied the southbound message on c.w. from Minneapolis and delivered it on to the rest of the circuit to Corpus Christi. A six meter circuit from KØLYO in Omaha to WØJOL in Dana, Ia. carried 3 messages from Omaha to the north and east. The operation was definitely a very successful one again this year. Local v.h.f. operators who participated in

Operation Leapfrog are as follows: WØOLY in Des Moines, WØJOL in Dana, Ia., KØØRS, Bellevue, Nebr., KØCZO at Bennett, Nebr., WØIAY at Pawnee City, Nebr., KØJHU, Council Bluffs and KØIJS, KØLYP, and WØEMS in Omaha. Frequencies used were 143.46 mc., 143.99 and 49.98 mc.

In the past couple of months, I've had the opportunity to use and test one of the 2 meter halo-type of mobile antenna which has appeared on the ham market and after making several tests, I'm convinced that these are hard to beat for working other horizontally polarized antennas (beams). On the first test, we drove to Fremont, Nebr. and had made a pre-arranged sked with Don, WØTRK. WØTRK's home QTH is equipped with an 8 element long yagi and as a result, we were able to maintain constant good contact all the way out to Fremont. Incidentally, this was using two of these halos in a stacked arrangement for greater gain and capture area. The particular halos I used were made by Lush Craft and I am sure WY Gain of Lincoln has now come out with some halos for both 6 and 2. Photo of the dual-halos is shown.

(See photo at top of page 4)



VHF News

In the January-February issue of G.E. ham news there is some interesting material on using the type 7077 micro-miniature ceramic triode. Plans are shown for using this tube in amplifier circuits for both 432 mc. and 144 mcs. Only drawback is the comparatively high price of the tube - \$31.14 each. The same circuitry shown can be used with the more readily available Western Electric 417A which is an excellent tube for use at 50 mc. and above. 417A's are usually obtained from A.T.&T. rejects, so if you have a ham friend working for the phone co. then try to get him to latch on to a few of these rejects. They can be checked out individually on your converter with a noise generator and generally some pretty good ones will turn up.

Some more interesting reading - the June CQ magazine and the editorial by Wayne Green in which he feels that we amateurs should get rid of our apathy and start really fighting to keep our frequencies from being taken away (any more than we've lost already.) This doesn't apply to just the frequencies above 30 mc. either.

73,

John D. Snyder
WØWRT

SUBSCRIPTION

John Droscher is available at every meeting to take your renewal subscription money for QST or CQ.

If you do not now subscribe to either magazine, John will help you get started as a subscriber to either one or both of the best amateur radio publications available.

FOR SALE:

Gonset II, 2 meter Communicator in good cond. complete with mike (modified T-17 with F-1 button) and xtal. This has given lots of good service in both fixed stn. and mobile. Price \$140. cash.

J. D. Snyder RE 1538

NOTES ON MAY MEETING -Ed, W0CQX

Seats were at a premium last meeting when Harlan Bercovici gave his talk and visual demonstration on the SSB method of transmitting.

Harlan clearly demonstrated the advantage of the "talk power" available in the SSB method vs other types of transmission, then went on to give a brief and concise description of how a SSB signal is generated which included the originating carrier, the balanced modulators, the mechanical filter, plus the audio input to the balanced modulators.

A test audio signal was put into his SSB exciter and the signal was visually traced thru the various states on an oscilloscope for the entire audience to see.

It was quite evident that Harlan covered the subject thoroughly as when he asked for any questions, at the end of his demonstration, there were none.

We hope to have another talk just as interesting and educational as last months, when Royal Enders will explain about the whys and hows on the new and efficient transistor power supplies for mobiles.

Royal will be our guest speaker at the June meeting, and will answer any questions that you may have concerning the transistor type power supply, so come early and be assured of a seat.

AREC in OMAHA

The time has now arrived when any and all radio amateur operators who are genuinely interested in using the benefits of their hobby for the help of their neighbors and community in times of emergency can show their willingness to help by joining the AREC (Amateur Radio Emergency Corps) in Omaha.

Steps are now being taken to get the full details on memberships, rules and regulations.

Any licensed radio amateur can join the AREC, regardless of what band you operate on, and regardless of what type of transmission you employ.

We suggest all members of ARC who are interested in joining the AREC in Omaha, state so on the card attached to your copy of Ham Hum and drop the card in the mail box.

THIS ONE IS AUTHENTIC

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

MOTOROLA ASKS FCC TO ABOLISH 6&2 METER BANDS; PROPOSES REDUCED AND SHIFTED ALLOCATIONS FOR AMATEURS

Well, boys, the old tomato has finally hit the fan. Motorola, Inc. has filed a brief with FCC (according to ELECTRONIC NEWS of April 20th) asking that the frequencies 25-890 megacycles be re-allocated according to their plan - which is designed to take darned good care of the mobile services. Among other things, (a) 50-72 mcs. be assigned to "land mobile" use. (b) 72-76 mcs. to be assigned to amateur use. (Are we supposed to fight it out with the TV industry to get these channels?) (c) 136-138 mc. to be shared by amateurs and "space communications". (You can bet on who will get the "shared" frequencies.) (d) 138-140 mc. for amateur. (Are we supposed to drive out the aeronautical services from those frequencies) (e) 140-166 mc. for "land mobile" (There goes 2 meters - to make room for more Motorola commercial equipment!) (f) 174-354 mc. for television (We're all supposed to junk our present sets - thereby creating another market for Motorola products.)

The cold hard fact is that manufacturer has come right out in the open and said that it proposes to reduce amateur frequencies; to kick us out of the bands FCC has picked for us; and to send us to spots in the spectrum where we will have to fight it out with "space communications", TV broadcasting, and aeronautical services. Sort of like moving established residents from their homes, and offering them new sites along the East-West boundary of Berlin.

For years, some hams have insisted that talk about "commercial interests" trying to steal our frequencies was just a "bogey-man". It was done rather quietly when we were kicked out of 11 meters - but if you can't understand this raid, you can't read.

WBMGQ. .

FOR SALE:

Globe Champ 300A - \$300.00
PE 103 Dynamotor - \$20.00
Elmac AF-67 - \$140.00

Contact Dave Hollander W0CJW
6016 Hickory Street
Omaha, Nebr. RE 2696

NOT SO SERIOUS

(From FORWARD GAIN, Norwich & Dist. R.C., England)

"WANTED" by Ted (G3IVH)

A reward of 5,000 microfarads will be paid for the capture of Hopalong Capacity, who escaped from his cell last night, armed with a carbon electrode. He is charged under Faraday's Law with the mutual induction of a young coil named Milli Henry, who was found stripped of her double cotton covering suffering from circulating current and corona discharge from her salient poles at Random, early this morning. He is also wanted for shunting an AC motor in a one way circuit and causing an impedance at Wheatstone Bridge whilst in charge of a Kilocycle.

If cornered, he will offer negative resistance and go into violent oscillation: this may be neutralized by tying his terminals together with stout copper wire. The potential difference between him and other current criminals is that he invariably returns to a steady current state unless sustained in oscillation by regular injections of positive feedback. He is an accomplished exponent of logarithmic decrement, and this leads to a frequency of dance halls and bus-bars.

Electromotive forces have made an unparalleled search

of all surrounding magnetic fields for several ampere hours, but, so far, have been unable to make contact due to lack of a positive lead on which to work. A switch has now been ordered and the gap is closing rapidly.

When last seen, he was wearing a mica wrap and transformer to match, giving him a very narrow bandwidth and distorting his characteristic curves appreciably.

Charges will also be preferred in accordance with Coulomb's Law.

A series of excellent DX band openings on 6 meters have been taking place throughout the latter part of May. Reports show stations in Japan, Hawaiian Is. and KX6 land have been worked or heard by many of the Omaha 6 meter men.

Don't forget the June V.H.F. QSO Party which will be taking place on June 13 and 14 from 2 P.M. of the 13th through 10 P.M. of the 14th. Make a mark on your calendars, and for further info. see the new QST on page 50.

This contest should interest anyone who can work 6 and 2 meters or higher.

73.

W0WRT

OPERATION GENERATOR

The approximately 25 radio operators who attended the Emergency Corps meeting in Room 302, City Hall, on Monday, May 25th, decided the most important single piece of equipment for emergency operations would be a portable AC power generator.

A committee of four immediately volunteered to construct two portable generators, to be presented at the next meeting on June 29th.

A complete itemized cost sheet will accompany each generator and at the earliest indication, the cost should be around \$20.00 to \$25.00 for the complete generator.

We are sure that the cost can be substantially cut on a quantity basis; therefore, anyone interested in getting on the Bandwagon for Operation Generator can do so by dropping a card to P. O. Box 626, stating your name, call, phone number, and that you are interested in building a generator with the rest of the group.

10 METER MOBILE ONLY

In order to help the local mobile CQ's get more rapid contacts, I am suggesting an approximate frequency instead of just somewhere in the band. Many times while going to work in the mornings, Mr. Mobile Ham would like a short QSO. If he would make a practice of calling and monitoring on or about 29.2, I believe we would get more and prompter contacts.

Jumping Little Gopher

Odd Cases of Interference
(From QSO, Channel A Radio Soc.) Via CQ News

"Pictureless TV" on one channel aroused the residents of a city in New England, the loudest complaint being a prominent local manufacturer of radio tubes. FCC engineers had little trouble tracking the interference to defective test equipment in the factory of guess what prominent local manufacturer!

Sirs:

A cat named Fluffy, property of Junior Ops of Norm, KØIPX, gave birth Thursday, May 7, to quintuplets. Not in the box that was carefully cushioned and laid out for her,

naturally, but in a spare parts bin under the radio station naturally!! Where else, for a "Ham Cat". Mother and babies doing well.

Norm, KØIPX

Odd Cases of Interference (Cont'd)

Interference to an airlines' radio communication was traced to an industrial heater in a Kentucky factory. Because of its hazard to life and property in the air, the plant agreed not to use the offending apparatus until corrective adjustments were made.

Recently, a Great Lakes coastal station asked the FCC to help locate the source of severe interference to mobile radio communication. A mobile unit was dispatched to the area. After a two hour search covering 28 miles, it discovered that sparks were jumping from an electric fence to an adjacent chicken-wire coop where dogs were kept. The owner promptly corrected the difficulty.

SOS distress signals on a marine frequency were heard over a wide area and set into motion vast search operations by the Coast Guard, Air Force, FCC and other agencies. The FCC monitored the signals to an Indiana factory making automatic distress transmitters for the government. They were being tested without proper shielding, and working only too well! - Thanks to W2TIN

Remoteness of a suspected culprit doesn't deter FCC field engineers. Recently, they spotted an unlicensed television transmitter atop a 9,000 foot peak in Arizona, operated by a store owner in the valley to further the sale of receivers. The station was closed down.

Old-style, pear shaped electric light bulbs look innocent, but under many conditions are known to create very nasty interference in both TV and radio receivers. In one community they became such a problem that the local power company, cooperating with TV dealers offered to replace free any outmoded bulb turned in by public.

Here's one for the birds! Complaint of interference to a Texas police radio system resulted in a floor-by-floor search of a twelve-story hotel several blocks away. Finally, a defective TV receiver, radiating as strongly as some small transmitters, was found running in a room occupied by a parakeet and a canary. When the human occupant of the room returned, she explained that

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the birds enjoyed the set! A minor adjustment on the chassis relieved the police and the FCC then left the birds and their owner as happy as - well birds and their owner.

Fluorescent lights are notorious generators of interference, particularly on the short wave bands. The entire radio system of a hospital in Hawaii, important as a means of therapy, was disrupted by a single defective fixture. The power company couldn't find it, but the FCC did.

CAVEAT EMPTOR - LET THE BUYER BEWARE! (From *Daro QMN Bulletin, Detroit A.R.A.*)
"RESTRICTIONS" ARE DIFFERENT FROM "ZONING"
(Via CQ News)

We want to remind you that subdivision restrictions can be even worse than zoning - and you may be stuck with a deal you didn't know about.

"Restrictions" are agreements entered into between owners of land, or between an owner and a purchaser. In either such case, the "restriction agreement" is a contract. Moreover, it can be a perfectly valid and enforceable contract even if it seems unreasonable as far as the ham is concerned who wants to put up an antenna

tower, or a zooming mast on his roof. So...bear this in mind: When you buy a house, or a lot where you intend to build a house, **FIRST** get a 'look at the restrictions on the property before you plunk down your deposit. If you are not an expert on the interpretation of restrictions, have your lawyer look them over for you. There is nothing secretive about restrictions; you simply ask the realtor or seller to "give me a copy of the restrictions, so that I can have my lawyer examine them." In the case of subdivisions in some counties, it is usually possible to obtain a copy of the restrictions from the abstract and title insurance companies, who are eager to accommodate their customers.

One lawyer active in real estate developments recently told the writer that "I drew a restriction agreement that might interest you. I included a provision that no outdoor antennas might be erected in the subdivision except those of the type normally used for television reception." If this shocks you - it certainly shocked the writer, who has long dreaded the day when the subdividers would start putting such matters into the fine print. Take this hint: investigate before you invest in what your wife thinks will be a dream home, and what YOU think will become an antenna farm! W8MGG

TINLEY AND PUBLIC RELATIONS

Hugh Tinley, KØGHK, has given a considerable number of talks to various groups in this city on amateur radio and has done a great deal to promote a good feeling toward amateur radio on the part of the public.

Another such demonstration was given the first part of May before the Nebraska Professional Photographers Association at their annual convention at the Paxton Hotel. The program was a two-part program; one concerning amateur radio and the other concerning SAC communications. Col. Joe Beler KØMQU, took care of the SAC part in his usual fine way.

Hugh was assisted in the demonstration by WØYZV, KØQYM, and WØVLI. Unfortunately we had a bad electrical storm during the demonstration and the major demonstration was, therefore, with WØYZV who had a communicator installed on the 6th floor of the Hotel. As an extra attraction a phone patch was run in through WØCPM with one of the Association's former well known members who now resides in California.

We received the following letter from Donald Jack, the local program chairman, which Hugh received in thanks for his efforts.

Dear Hugh:

Many, many thanks, Pal, for the splendid performance Monday night at our convention. That was the best entertainment that association has ever had. I do know it will help attendance next year.

Your co-operation was outstanding and everything seemed to co-ordinate beautifully. I only wish that we could do something like this again sometime - with you of course.

Hugh, thanks again, and thanks to your company, for sparing you to help us.

Very truly yours,
Donald Jack



"Here it is, Mr. Roberts."

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JUNE 12, 1959
8:00 P. M. SHARP