



HAM HUM

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Vol. XV
No. 12

December 1965



In recognition for his service as President during the year 1965, Ed Donze, WØYEV, (right) receives plaque from Secretary WØYZV, at the annual meeting of the Ak-Sar-Ben Radio Club, Inc. on December 10th.

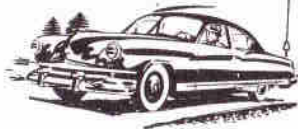
The plaque reads as follows:

Edmond E. Donze WØYEV

Past President
Ak-Sar-Ben Radio Club, Inc.

In Deep Appreciation of His
Service During the Year 1965

HAM HUM is the official organ of the Ak-Sar-Ben Radio Club, Inc., of Omaha, Nebraska, mailed monthly to all members and to others upon request.



NEXT MEETING - January 14, 1966

The next meeting of the Ak-Sar-Ben Radio Club, Inc. will be held on Friday, January 14, 1966, at the 4-H Building, Ak-Sar-Ben Field.

This will be your opportunity to meet your new officers, and will help you keep that New Year's resolution we hope you have made to attend each meeting of the Club during the year 1966. After all, it's pretty hard to attend all meetings unless you make the first one. The meeting will start at 8:00 P.M. and we will look for you there.

FOR SALE

Collins 75S-3 receiver; Collins 30L-1 linear amplifier; Heathkit HX-20 transmitter; Drake phone patch.

Other assorted items including coaxial cable, etc. Phone 333-7777.

WANTED

Triband beam, rotor, and or tower.

Mike Rosenbaum
WAØMWZ
553-2575 553-2744

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ANNUAL MEETING - CHRISTMAS PARTY

The annual meeting of the Ak-Sar-Ben Radio Club, Inc. was held in the Cafeteria of the World Insurance Company, 203 South 18th Street, on December 10, 1965 at 8:00 P.M.

The following new officers were elected: Byron J. Smith, Sr., WAØICK (1966-67); and Vice President, Joe H. Roberts, KØKEO (1966-67). The following members were elected to the Executive Council: Ervan D. Heinz, WAØEEM, (1966-67); Royce E. Johnson, WAØKIL (1966-67); Harold E. McClenahan, Jr., WAØDGA (1966-67); and John W. Orr, WØPHW (1966-67). These men along with immediate Past President Edmond E. Donze, WØYEV, together with the four continuing members of the Executive Council - Frank Fernald, WØBTE, Alvin H. Hofgaard, KØTUS, Fred E. Kujawa, KØETA, Peter C. Trapolino, WØJHU - constitute the Board of Trustees for the year 1966.

These are the men responsible for the administrative detail of your Club and they will welcome any

suggestions you may care to make. Please feel free to contact any of them and let them know your desires. If this is not convenient, jot down your suggestions on the card enclosed with Ham Hum and drop it in the mail. The card is already addressed to the Club and will be passed on to the Board.

The annual meeting which doubles as the Christmas party for the Club members provided enter-

tainment and exchange of gifts as well as movies and candy for the kiddies.

We are indebted for our cover picture as well as other pictures of the Christmas party to Ery Heniz, WAØEEM. As you see from the photos our genial President Ed was in his prime handing out goodies to the kiddies and handling the drawing for us. He lacked only the red suit to be official!





We also have a picture of Honest John, WØPHW, our Treasurer, who by way of his previous planning was able to eliminate most of the

bottleneck as the members entered and checked out on their dues payments. He was ably assisted by Al McMillan, WØJJK.





We were entertained by "The Courtroom Four" which we discovered consisted of Papa (Don Kalal) and family, including Mama. We were very appreciative of the singing they did for us and we were particularly impressed by the enjoyment they had in doing the singing. This family must have quite a time at home with their rehearsals and all, and it undoubtedly results in much family togetherness. We are indebted to John Orr, PHW, for arranging for this entertainment. He had heard them at a Telephone Company meeting and was impressed as were we at the Christmas party.



December 7, 1965

Our special thanks go to the following for their part in our Christmas party: World Radio Laboratories for their donation of several gift certificates and their contribution toward our door prizes; Radio Equipment Company for their donation of a lady's prize; World Insurance Company for the use of their rooms, donation of a lady's prize, and refreshments; and XYLS for bringing the delicious cakes; the Officers and Board members for their efforts in arranging the party; and to the Ak-Sar-Ben Radio Club for the donation of door prizes.

13 Dec. 1965

Hi Gang:

WØCJW is now W6COJ while the XYL WØCSY is now W6COM. We now have the Galaxy V on the air and like it a lot. We work 15 and 20 mostly in the AM and on week ends always looking for Omaha stations. California is O.K. but too much rain. Joined the Orange County Radio Club and was elected Secretary last meeting. New QTH is 225 So. Prospect St., Orange, Calif. 92667. Hope to C some of the old gang on 15 or 20 meters sometime.

Best 73,

Dave Hollander,

W6JOC - X-WØCJW

DAFFYNITION

FIRMNESS: That admirable quality in us that is merely stubbornness in others.

Ak-Sar-Ben Radio Club
P. O. Box 291
Omaha, Nebraska 68101

Hi:

See by page 7, November issue Ham Hum, just received, that Dues are Due. You don't say how much, so I am sending a buck for Ham Hum, if that is not enough you can say so.

Also note that Sigmund Piotrowski, WØEWF, Imperial, Nebr. is Amateur Extra Class, I wonder just how many more Nebraskans are Extra.

WØPHA, Joe Fairfield, Scotts Bluff, has his, WØVEA, Dayton L. Phifer, North Platte, Nebr. does too. (4-15-64)

And according to some magazine about three years ago, there were 21 Nebr. Hams with the Extra Class ticket.

Oddly enough, I owe it all to the Side-band operators, me getting EXTRA Class ticket. I carried a General, and do not like anything I hear about or on sideband. Especially the usual run of operators. I was assured that I just did not know and understand enough about Ham Radio to appreciate the finer things about it, such as SSB.

So I went and took the examination, (three times) and finally passed, received my ticket, Amateur Extra Class, and am still waiting for my ability to appreciate SSB to arrive.

73,

Dayton L. Phifer

WØVEA

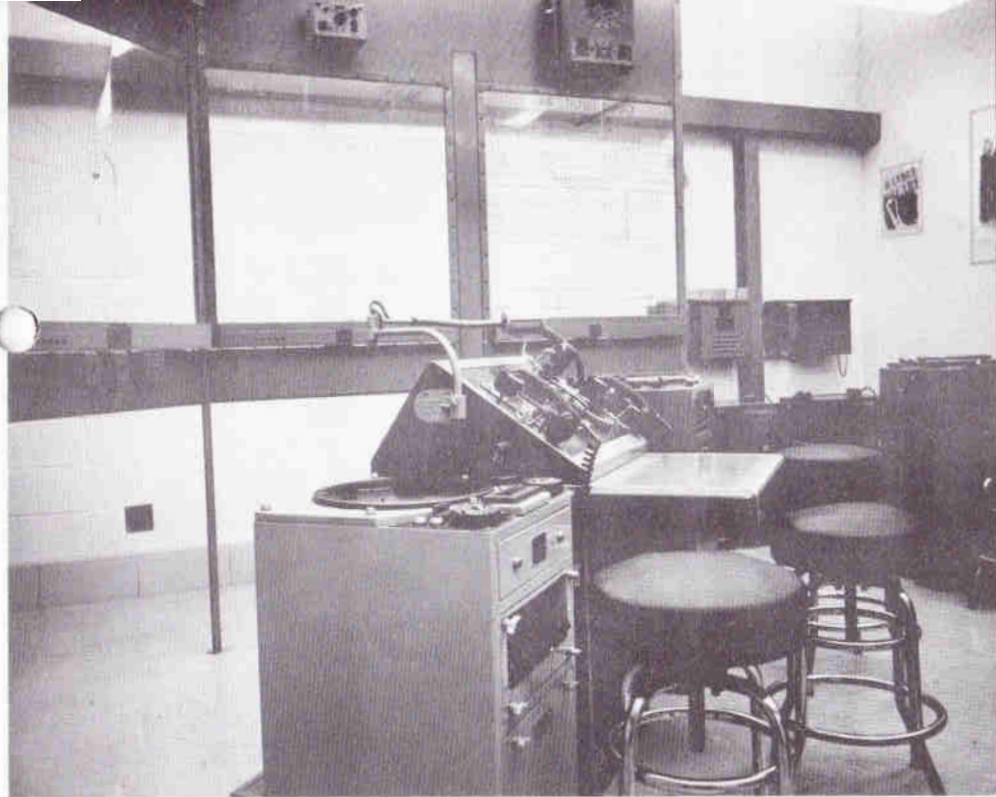
East Tryon Route

North Platte, Nebr. 69101



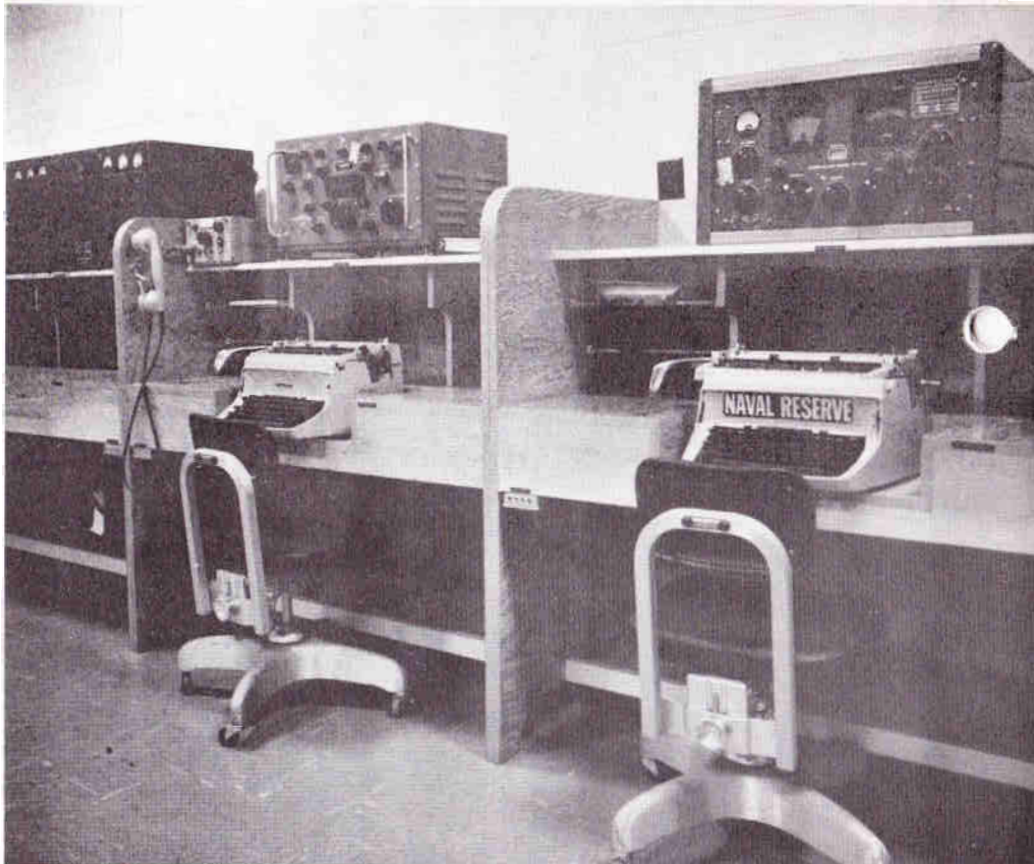
Bob Miller, KÖZLY, recently visited the United States Naval and Marine Corps Reserve Training Center at Fort Omaha. With the kind permission of Commander W. J. Clark, USNR, the Commanding Officer, and the assistance of Charles A. Hance RD1, USN and Merrill G. Smock RM2, USN, Bob was able to photograph the following picture story for Ham Hum.

(Incidentally, Bob is a professional photographer located at 4302 Dodge.) He found a great deal in the electronic and communication programs that might interest many young men. Should any of you be interested in what the Navy has to offer, contact the Reserve Center at 30th and Laurel Streets for information.



COMBAT INFORMATION CENTER (CIC)

The Navy Reserve Training Center CIC is an actual working model of a shipboard CIC. As shown are the various status boards for the display of tactical information pertinent to the operation and safety of the ship. Various radar repeaters provide surface and air contact information necessary for a better evaluation of the situation. The evaluator's desk, centrally located, is the functional point of the combat information center. Thus the evaluator is in a position to monitor all displayed intelligence on the status boards and is in direct communications with the radar operators, plotters, status board keepers and the commanding officer by sound powered phones and/or inter-communications. The evaluator may contact any station in CIC by simply switching the sound powered phone rotary switch to the circuit of the station desired. Of prime importance to the tactical situation and safety of the ship are the various voice radio nets manned in CIC by officer and radarmen personnel. The radio-telephones located at the evaluator's desk are available to the evaluator for immediate use on any circuit guarded by the ship. Aboard ship the various nets are patched to CIC from Radio central. However, at the Navy Reserve Training Center, a radio simulator provides the same purpose. The evaluator may select any net for receiving or transmitting by use of a rotary radio-telephone selector switch, similar to the ones used by the sound powered phones. ➡



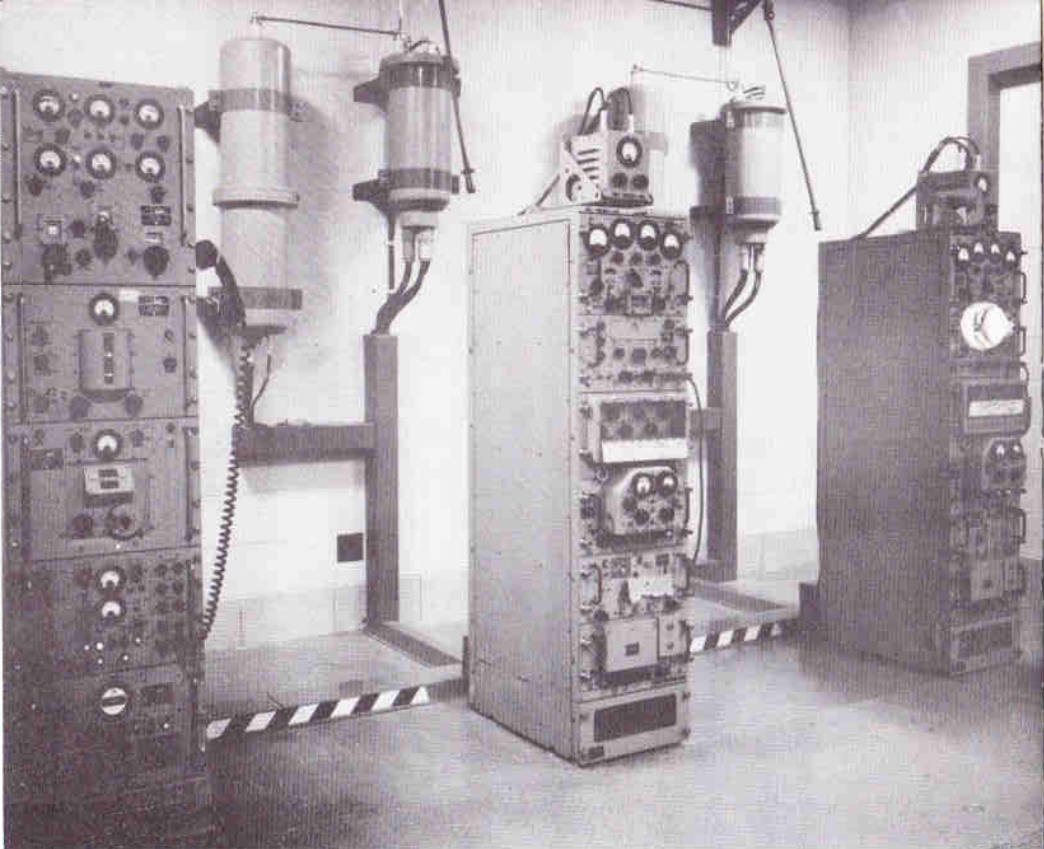
RBB-RBC series receivers (extreme left) have been used for many years by the NAVY, but are now being replaced by newer models. Frequency range of the RBB is 0.5 mcs to 4.0 mcs, and of the RBC 4.0 mcs to 27 mcs. Both are superhetrodyne receivers, and are capable of receiving CW, MCW, and AM radiotelephone signals. These receivers have also been modified to receive teletype and facsimile signals.

R-390 receiver (center) is very stable, and rates very high in performance. It is capable of receiving CW, MCW, AM radiotelephone, Frequency Shift radioteletype, facsimile and Single Side Band signals. The frequency range is 500 kcs to 32 mcs. This receiver is also a superhetrodyne, but also uses multiple frequency conversion. The tuning dial is calibrated in kilocycles with the tuning dial accurate enough to use the receiver as a frequency meter.

FRR receiver (right) is also very versatile in the medium high frequency range. The FRR like the others in this picture is also a superhetrodyne receiver.

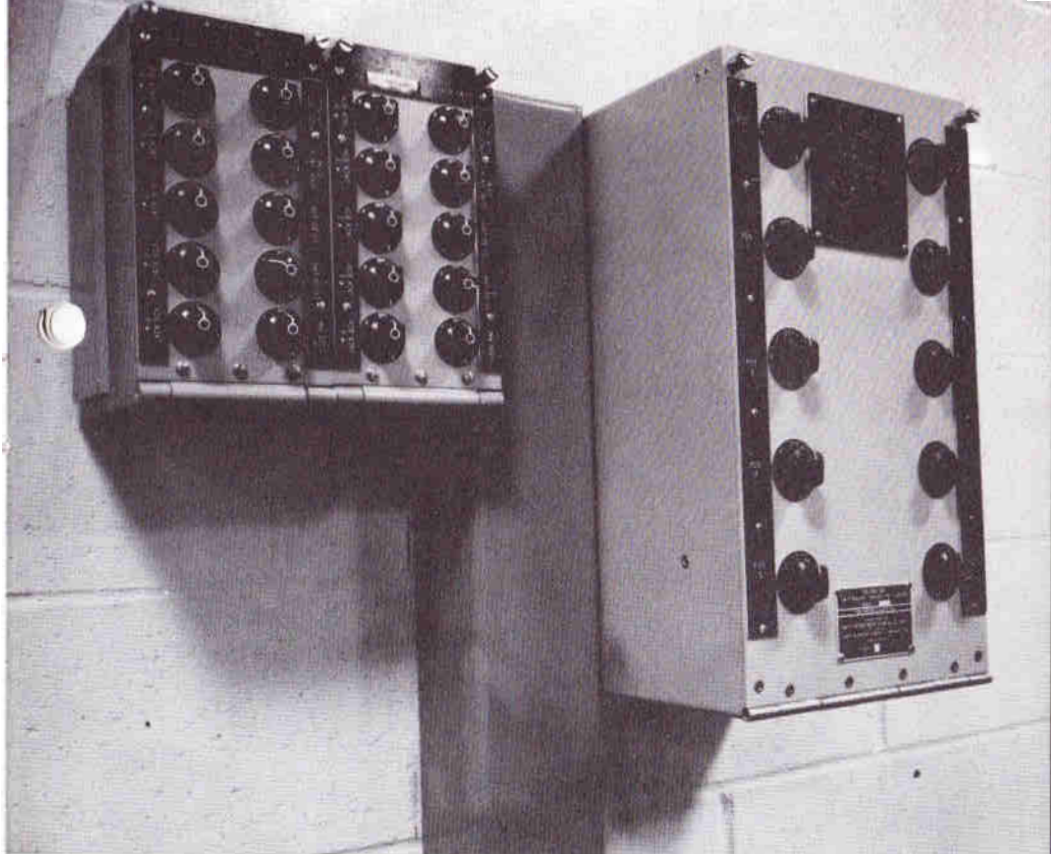


Part of radio code practice room showing code practice oscillator on which code tapes can be run at speeds varying from 8 to 30 words per minute. Patch panel enables supervisor, or instructor to put signals to any one or all of the operating positions. Oscillator can also be used for hand key operation.



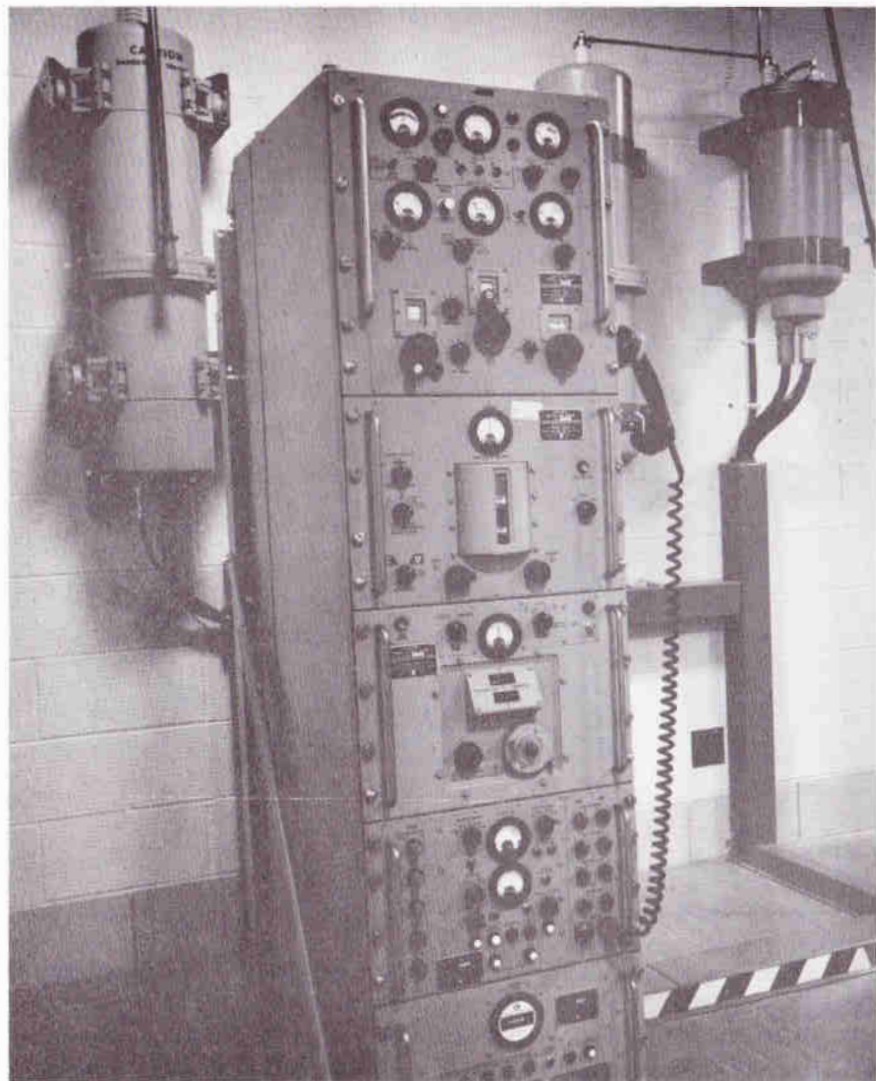
The AN/WRT-2 transmitter (extreme left) covers a frequency range of 2 to 30 mcs. Being single side band it is more versatile than the remaining transmitters in the pictures. The uses of the AN/WRT-2 are, hand or machine keyed CW, single side band, independent side band, AM radio-telephone, frequency shift radioteletype, and photo facsimile. The power output varies with the different types of transmission. For CW and teletype power out is 500 watts, for AM average power out is 500 watts.

The AN/SRT-14 transmitter (center and right) is one model of a series of transmitters. This transmitter along with others is replacing older models. This series of transmitter is capable of performing the operations of several older models. The frequency range of the AN/SRT-14 is 0.3 mcs to 26 mcs, with a maximum power output of 500 watts. Modes of operation are CW, AM radiotelephone, teletype and facsimile.



Radio remote transfer plug panels have become too cumbersome to be practical. The NAVY now uses transfer switchboards, such as the receiver transfer switchboard (left) which has two vertical rows of six-position switches all wired in parallel with the other switches in the same horizontal row. This way six receivers can be fed to any or all of the remote stations by the proper use of the switches.

Transmitter transfer switchboard (right) uses the same parallel wiring as the receiver switchboard, the only difference being the switches are seven-position instead of six.



R-F antenna tuner (left) is wired to the radio frequency output of the AN/WRT 2 transmitter and is used to either lengthen or shorten the antenna electrically for maximum power output from the transmitter.



AN/UGC-6 teletypewriter (lower left) is capable of receiving messages electrically from a line signal, receiving messages and recording them on tape both perforated and printed, electrically transmitting messages from either perforated tape or keyboard. Normal operation is 60 words per minute.

AN/URA-8A (top center) consists of two frequency shift converters top and bottom components of URA-SA, and the comparator being the middle unit. The converter changes frequency shifted audio signals to D-C pulses for operation of the teletypewriter. Either converter can be operated separately. The comparator is used for diversity operation, by using both converters, the signals are fed to the comparator which selects the best of the two signals for each character and is then fed to the teletype.

RBC receiver (center middle) same as RBC on Page 10.

Transfer switching network (lower center) is used for completing D-C loops to patch transmitting equipment to desired transmitter.

Model 28 teletype (right) is used for receiving teletype messages.

REFLECTED AND DIRECTED

A CORNER TURNED

The year 1965 may have been memorable for amateur radio in that the ARRL celebrated its 50th Anniversary which is quite an achievement, considering the modest beginning of our hobby in basements and attics, all within living memory. But something else seems to have taken place. A substantial decline in the number of NEW persons coming into amateur radio. Those who figured on a constantly increasing number of amateurs, reaching a million or so in a decade, are suddenly taken aback. Lo and behold! When you add up the number of silent keys, license revocations, and license expirations without renewal, there are apparently LESS amateurs at the end of 1964 than at the years' beginning.

If you didn't know this fact before, it may shock you. This writer doesn't think there is anything tragic or bad about it. For several years, the amateur bands have become saturated and over-saturated. Good communication, as well as serious experimentation, has been exceedingly handicapped on 80, 40 and 20. Pile-ups have been compounded with bad manners, radio-wise. Thanks to uninvited break-in, the average radiotelephone QSO is like 6 persons getting into a double bed which is already occupied. The potential newcomer may well have said to himself, "Why should I get a license to

participate in THIS madhouse?" and with that, he strolls into Eager Eddie's Electronic Emporium, and buys a used CB unit for \$49. complete with the former owner's QSL card and DX record.

The foregoing paragraph treats with the chap who came to the conclusion that the fun to be derived just wasn't worth the effort, and that what fun there was, was hidden in the mountains of QRM. If it is fun he's after, he's probably right; a lot of fun has gone out of ham radio. Although there's a lot of fun still to be had, you've got to put more into ham radio in order to enjoy it. You've got to read those technical and constructional articles in QST, and figure out WHY a gizmo works, or WHY it is built just so. And this is just too much for the potential lip artist; CB communications are more his style. So he and hundreds like him may be forever lost to amateur radio; and who's crying?

1964 also marked the year of the first amateur radio license fee. The charging of a \$4.00 fee - which is 80 cents a year for a five-year term, or 7¢ a month - may have induced some inactive amateurs to drop their licenses, rather than renew them for this very modest fee. If any amateur does not intend to use his license or call again, he might just as well get off the train, let someone else have his seat, and save FCC the trouble

of keeping track of him. No tears for him either!

The year 1964 also saw the second and even third generation of SSB equipment coming from the manufacturers. Used AM rigs became so cheap that Novices could afford to buy them for their first transmitter, cheaper than the parts for a home-brew CW job! Good sideband equipment remained expensive, and in the construction of all-band exciters, perhaps not more than one ham in a thousand could compete with the commercial product in size, efficiency and versatility. Now, buying commercial gear may be easier on our supply of time, if not our supply of money; but is there any fun in buying it after you find out the ham across town has one just like it - which he may have bought for 10% less than you paid?

Not to be forgotten in 1964 was the declining sun-spot activity, diminishing DX possibilities in our widest bands, 10 and 15, until there is now only one direction for conditions to go -- UP! Lack of "easy DX frequencies" has certainly discouraged a lot of the low power gang who got their DX kicks on 15 and 10.

Did the incentive licensing proposals scare anybody? We doubt that they scare anyone, except possibly those that have a cause which depend on the existence of an incentive licensing plan. No tears in these instances, either.

It looks to us as though we have turned the corner. Those seriously interested in amateur radio as a self-training hobby, devoted to public service and promotion of knowledge of electronic theory and communication practice, think we may be heading back into the right track.

George H. Goldstone, W8MGQ
de Auto-Call

TREASURER'S TORMENT

By the time the dust settled after the December Christmas party we had 24 paid-up members for 1966. This is approximately 23.30097087-476796116% of our paid-up members for 1965. If I pay my dues for 1966, including the XYL's the percentage increases only 1.94174757183398058%. If I spend the usual two hours on the books at the regular treasurer's pay rate and using low-cost paper the paper cost is \$0.0024678900244 per hour.

After spending \$0.00492789946-7646 of the Club money on paper I found that my dues would only increase the 1966 dues income by about .06787330316733016733%. So why pay up? On the other hand, WAØICK says pay up or close out the books. I can't do this because it is much too involved in figures. I don't even know how many paid-up members there were in 1965---do you?

WØPHW

**OFFICIAL BULLETIN NR 33
FROM ARRL HEADQUARTERS
NEWINGTON CONN NOV 11 1965
TO ALL RADIO AMATEURS BT**

ARRL Affiliated Clubs and their members are reminded of the continuing availability of training aids designed to enhance club education and interest. The League's Training Aids Program includes technical films, film strips and slide collections as well as quizzes and tape recordings on many phases of amateur radio technique operation and history. Affiliated Club officers should request ARRL training aids well in advance of the date required. Full information is available from the ARRL Communications Department, 225 Main Street, Newington Connecticut 06111 AR

**OFFICIAL BULLETIN NR 36
FROM ARRL HEADQUARTERS
NEWINGTON CONN DEC 2 1965
TO ALL RADIO AMATEURS BT**

F 1 Radioteleprinter operation is currently authorized in the non-voice portions of the 80, 40, 20 and 15 meter bands. To bring ten-meters into line with this basic allocation principle on other high frequency bands, the ARRL Executive Committee has directed the filing of a petition with the Federal Communications Commission seeking authorization for RTTY in the A 1 segment

28.0 to 28.5 megacycles. It is anticipated that, as on other bands, RTTY stations will voluntarily select a spot frequency or two to centralize such activity. AR

DAFFYNITION

PEDESTRIAN: A man whose son is home from college.

**CORRECTED COPY
OFFICIAL BULLETIN NR 38
FROM ARRL HEADQUARTERS
NEWINGTON CONN DEC 16 1965
TO ALL RADIO AMATEURS BT**

The estimated launch of the OSCAR IV satellite is December 21, A brief announcement appears on page 41 of December QST. The translator has an input center frequency of 144.1 Mc. and an output center frequency of 431.972 Mc. which is a change from the original announcement. The passband is about 10 kc and peak power output about 3 watts. A beacon is incorporated on 431.962 Mc., again a change from the earlier announcements. Experimenters are urged by Project Oscar to employ c.w. to conserve the restricted bandwidth of the satellite system. All reports on signal reception or contacts made via the repeater should be reported to Project Oscar, Foothill College, Los Altos Hills, California, WIAW will carry further information received. Summarizing, input 144.1, output 431.972, beacon 431.962, launch predicted December 21 AR

**OFFICIAL BULLETIN NR 37
FROM ARRL HEADQUARTERS
NEWINGTON CONN DEC 9 1965
TO ALL RADIO AMATEURS BT**

A reciprocal operating agreement becomes effective immediately between the United Kingdom and the United States. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there. The current note covers the British Isles only. Separate agreements will be needed for other parts of the Commonwealth and the Crown Colonies. The United States has previously reached such agreements with Australia, Belgium, Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, Luxembourg, Peru, Portugal and Sierra Leone. Many others are being negotiated and successes will be announced as they occur AR

A tip for those claiming they have clicks, chirps, etc. with a bug, but OK with a hand key. I began to experience that, found the bearings, etc. on the bug were not carrying the current through, had varying resistance, cleaned that up and OK now; one bug a friend gave me had never been used for anything but a light weight; brand new, but had to clean all bearings and points. About points, or contacts, examine contacts on new automobile points, or new

keys, or even the head of a carpenter's hammer, or ball peen hammer, all are slightly rounded, not flat surfaced, so when you dress the points with a burnishing tool, or whatever, be sure you polish all around the contact rather than simply straight up and down across it.

Sincerely,

Dayton, WØVEA

(My apologies are due for having received this some time ago and misplacing it. Sorry, Dayton and tnx much - WØWRT)

Past Presidents of the Club

- 1945 - N. P. Nelson
- 1946 - John Leeder
- 1947 - Art Gaeth
- 1948 - Herb Curry
- 1949 - Elmer Stein
- 1950 - Doc Becker
- 1951 - Earle Olson
- 1952 - John Orr
- 1953 - Ray Strange
- 1954 - Frank Cooper
- 1955 - Art Stadler
- 1956 - Dick Eilers
- 1957 - Curt Hicks
- 1958 - Ed Gutmann
- 1959 - Dave Hollander
- 1960 - Max McKinney
- 1961 - John Droescher
- 1962 - Royal Enders
- 1963 - Joseph F. Berounsky
- 1964 - Louis A. Cutler
- 1965 - Edmond E. Donze

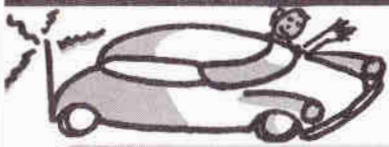
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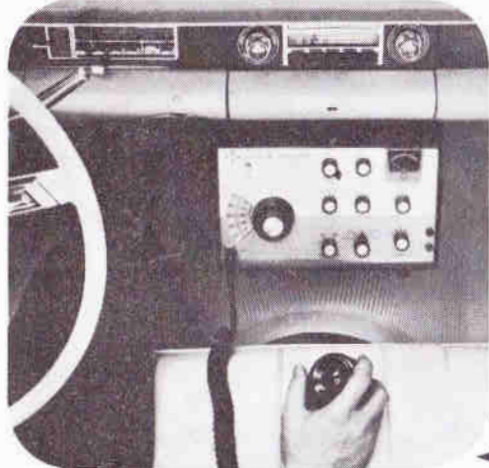
SAVE \$70.00 . . . If you buy now . . . A NEW GALAXY V TRANSCEIVER . . . featuring 300 WATTS PEP SSB/CW; FULL BAND COVERAGE on 80-40-20-15-10 meters . . . and it boasts the BEST — SELECTIVE RECEIVER (because of its 6 Xtal filter); and UPPER and LOWER selectable SIDEBAND!

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WØGFQ
PRESIDENT

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