



# HAM HUM

AK-SAR-BEN  
RADIO CLUB  
INC.

WØEQU

October 1958

P.O. 626

Omaha 1, Nebr.

Vol. VIII No. 10

# AUCTION

EVERYTHING  
GOES



ON OCTOBER 10TH

# Ham Hum

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HAM HUM is the official organ of the Ak-Sar-Ben Radio Club of Omaha, Nebraska, Mailed monthly to all members and to others upon request. News and information of interest to amateur radio is gladly

accepted. All items must be received at least two weeks prior to the second Friday of each month for inclusion in the current month's issue. Submit all correspondence to P.O. Box 626, Omaha, Nebr.

## AK-SAR-BEN RADIO CLUB, INC.

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Ak-Sar-Ben Radio Club memberships are open to all persons having an interest in amateur radio and its activities. Dues are 50¢ per month or \$5.00 per year when paid in advance. Students

rate is 25¢ per month or \$3.00 per year. Initiation fee \$1.00. Special rate for OM-XYL, \$6.50 payable annually. Meetings are held on the second Friday of each month.

## OCTOBER MEETING

The entertainment for the October meeting will be the Auction which the Club holds on a regular intermittent basis - meaning we don't know when the next one will be. So, bring the gear you want to get rid of to the meeting and present it for the auctioneer and let's see how high a price we can get for you.

The rules of the auction are that the Club get 10% of the selling price. You can set whatever minimum price you want to on your items. If it sells for the minimum or greater, you take home the money less 10%. If it doesn't sell for your minimum, you take home the item again and wait for the next auction.

This is your opportunity, fellows, to get rid of that unused gear and get some dough so that you can purchase more useful gear. Perhaps the very item you want will be offered for sale so bring your pocketbook or checkbook and at the same time let's all have a good time at the auction.

In addition to the auction there will be films and the usual refreshments and gabfest. So don't forget the date - October 10th - 4H Club Building, Ak-Sar-Ben Field. The meeting will start at 8:00 P.M. sharp. This being the first meeting of the winter season, we expect a

rather large attendance but there's room for plenty more. So call up that Ham down the street, whether he's a member or not, and get him to come to the meeting with you. There's plenty of room for him and we're throwing in a few extra doughnuts as we're planning on your bringing him and yourself.

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## OFFICIAL BULLETIN NR 671 FROM ARRL HEADQUARTERS WEST HARTFORD CONN SEPT 18 1958 TO ALL RADIO AMATEURS BT

The annual Simulated Emergency Test will be held October 11 and 12. All amateurs and especially AREC members are urged to participate in their local exercises or in handling traffic destined to ARRL, civil defense and American National Red Cross. Consult your local Emergency Coordinator for details and sign up in the AREC if you are not already a member. Amateurs not taking part are requested to avoid use of the National Calling and Emergency Frequencies and local emergency frequencies are listed on page 81 September QST. Other information on the Simulated Emergency Test appears on page 87 of October QST AR

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## PICNIC

Once again the Ak-Sar-ben Radio Club annual picnic is a thing of the past. The weather finally was most excellent. In fact it was as good as the weather was lousy on the original date of the picnic. It was most regrettable that the picnic had to be postponed but it was one of those things that could not be helped. Even though the weather finally did clear in the afternoon of the picnic date we could not have gotten into the park as there is not a sufficient amount of gravel on the road. Likewise it was necessary to decide in the morning that there would be no picnic as quite a number of fellows had been planning to come in from out of the city. Actually on the second date we gained some that could not make it the first time and lost some that could not make it the second.

When the final count was made, 200 Hams, XYL's, Junior Ops and friends were present. The afternoon was a busy one with something to do all of the time but still leaving an opportunity for gabfest on the part of those that wanted it. The games were as usual with a few innovations. Our old friend, the QLF contest, just had to be. For the benefit of those that were not there, that is the matter of

sending the alphabet with the left foot. The CW artist who won this contest was KØARU and the prize of all things a crystal microphone, donated by J. B. Distributing Company.

For the egg throwing contest, KØMQC and KØIJW each won a lubrication job from Rusk-Larson Co. There was a men's relay in which teams of three raced against time in putting on some ladies unmentionables of a stretchy nature which they wear about their middles, either to keep themselves warm or to hold up their socks. This contest was won by the team of KØOKS, KES and MRS. They each received a certificate for a photo album from Calandra Camera Co.

In the ladies' tube socket race which consists of a whole series of different type sockets and the apparatus normally plugged therein, KØIJS (XYL) won the ladies Sunbeam shaver, donated by World Insurance Company.

The transmitter hunt on 420 was quite unusual this year in that the transmitter refused to do its job. It was hidden, however, and found by eyesight rather than the usual method by KØIJV. For this eagle-eye effort he received a flashlight, donated by World Radio.



The new contest that had to make its appearance this year was the hula hoop contest and the prize of a set of classes, donated by Omaha Crockery Company and Bill McDonald, went to KØIJV and his Junior Op.

A Papermate desk set was won by the XYL of WØLFM in the slipper kicking contest.

The six meter transmitter hunt winner, KØHHR, received a Johnson directional coupler, donated by Ladd Electronics.

A special prize was given to the Ham who had come the farthest and that was determined to be KØHKE from Norfolk who received a beverage cooler, donated by Storz Brewing co.

The following listed prizes and their winners were given out at a drawing.

<u>Item</u>	<u>Donor</u>	<u>Winner</u>
Defrosit	Ladd Electronics	KØIJW Jr. Op.
Defrosit	Ladd Electronics	W4AWM (Offutt)
Message Blanks	Ladd Electronics	KØHKE
Side Cutters	World Radio Lab	Larry Hislop
Papermate Pen Set	World Insurance Co.	WØCQX Jr. Op.
Stationery	Rice Pharmacy	WØUVU Jr. Op.
Zip-A-Robe	World Insurance Co.	KØKEN
Beverage Cooler	Storz Brewing Co.	KØKKF Jr. Op.
Long nose pliers	World Radio Lab	KØIJW Jr. O.
Suprise package	World Radio Lab	KØMQC Jr. Op.
Zip-A-Robe	World Insurance Co.	WØZUT
A brake adjustment	K. B. Brake Co.	John Young
\$5.00 gift certificate	World Radio Lab	KØDFJ (XYL)
Johnson low pass filter	Ladd Electronics	Steve Sturges
Beverage Cooler	Storz Brewing Co.	KNØOPV
A brake adjustment	Anderson Standard Service	KØPTG (XYL)
500 QSL cards	Suiter Printing Co.	WØFBY (XYL)
meter vertical antenna kit	Ak-Sar-Ben Radio Club	WØCQX (visitor)
Wenn Solder Gun and 1 lb solder	World Radio Lab	WØCQX (visitor)

This last prize was a combination deal. The 40 meter vertical antenna kit was received in a large box adequately marked. Upon opening the box it was discovered that it was full of the Storz cans that had been consumed during the afternoon and, of course, with a beer can vertical it requires lots of solder and a solder gun. Thus this was a combination prize.

Our many thanks go to the donors of these prizes as they do help in the enjoyment of the picnic. You can best show your appreciation, whether you won a prize or not, by personally thanking the donor, preferably at his own place of business while making a purchase. These people are interested in us. Let's be interested in them.

The Club will appreciate the donation of any prints of pictures taken at the picnic for the picture history book we are maintaining under the supervision of WØNAG. Please bring them to the next meeting, and give us all a chance to see them.

For the benefit of future picnic committees, if you have any comments, suggestions or criticisms on the handling of the picnic, please fill out your card and drop it in the mail to P.O. Box 626. These picnics

are given for the benefit of the members and friends of Ak-Sar-Ben Radio Club and we all want it to be the best picnic possible.

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### CQ FOR 10¢ (de CQ NEWS)

Here's how to get a year's supply of CQ for a dime. Drop a card to CQ NEWS, 311 Rosemary Rd., Toronto 10, Ont., Canada, and tell us: (1) In 1 sentence the number of QSO's of at least 10 minutes duration you had during October 1958. (2) In what paper you are reading this. (3) Enclose a dime coin. The Ham with the greatest number of contacts will get CQ free for a year and only he will be asked to send a copy of his log. All entry fees (10¢ coin - no stamps pse) will be applied to buy CQ Subscriptions. The greater the number of entries, the greater the number of winners. This will not be advertised in CQ. Limited to CQ News Service Only. Your chances are excellent - be sure to mail your entry BEFORE Nov. 29, 1958. Watch for the announcement of the winner in January. If is received well we will make it a regular feature.

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## SINGLE SIDEBAND - Part 5

Last month the filter method of deriving a single sideband signal was discussed. This month the phasing method will be described. The basic principle of operation of the phasing system is that two signals of equal amplitude, that are 180 degrees out of phase with each other will cancel, while two signals that are in phase will add together. See figure A.

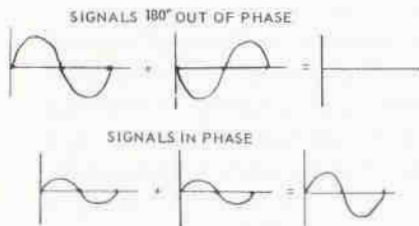


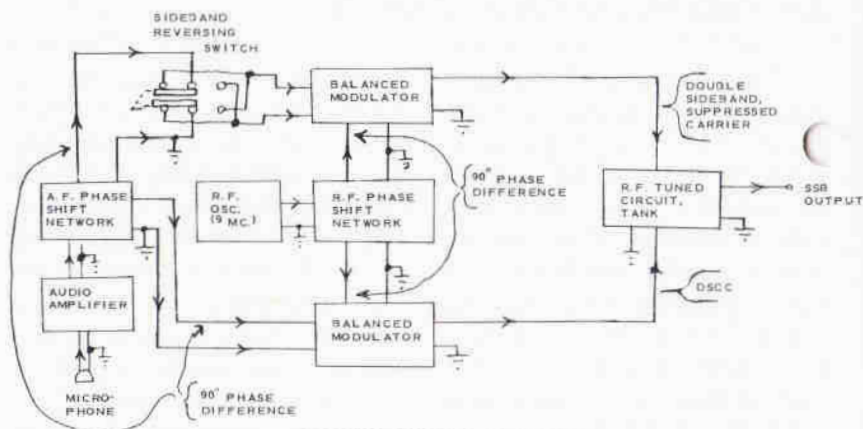
FIGURE A

The advantage that the phasing method has over the filter method is that the SSB signal may be generated at an R.F. frequency, usually 9 mc., which is impractical in a filter exciter. The phasing exciter's disadvantages are that phase shift networks must be very precise. The voltage difference between the two outputs shouldn't be more than 1%, and the phase difference should be 90 degrees over entire operational frequency range of the phase shift network. These requirements are difficult to maintain in an audio phase shift network, which must operate

from 300 to 3000 cps. But a bigger problem is maintaining the phase shift network's characteristics over a long period of time. Component aging, temperature and humidity all take their toll of the resistors and capacitors in a phase shift network operating in the audio range. The fact that a phasing exciter operates in the R.F. region, at about 9 mc., makes bandswitching operation easier to work out than such operation in a filter type exciter. However, experience has shown that a filter type exciter will generally have better sideband suppression characteristics than a phasing exciter, and will retain those characteristics over a much longer period of time than will a phasing exciter.

Referring to the block diagram, it can be seen that an audio signal, generated in the microphone, is amplified and fed to an audio phase shift network. The phase shift network splits the audio signal into two separate audio signals. These two audio signals have the same amplitude and a 90 degree phase difference. Each audio signal is then fed to a separate balanced modulator. The term, sometimes used, double balanced modulator means that there are two separate balanced modulators. The R.F.

(See page 8 for diagram)



PHASING EXCITER BLOCK DIAGRAM

signal is generated in the oscillator and fed into an R.F. phase shift network, which splits the R.F. signal into two components, equal in amplitude and differing in phase by 90 degrees. After leaving the R.F. phase shift network the two R.F. signals also are fed to the two balanced modulators. These separate balanced modulators each act as does the balanced modulator in a filter exciter. For an analysis of the balanced modulator refer to the August issue of this magazine. Because there is an audio signal AND an R.F. signal fed to EACH balanced modulator there will be two double sideband suppressed carrier signals, one in the output of each balanced modulator. These two dssc are then combined in a common tank circuit. Because of the phase relationships that occur during modulation, the upper sidebands,

for instance will be 180 degrees out of phase, and the lower sidebands will be perfectly in phase. Remembering that the carrier was eliminated in the balanced modulators, it can now be seen how the phase shift acts to give a single sideband signal. Because the upper sidebands are 180 degrees out of phase they will cancel each other out, and the lower sidebands, being in phase, will add together, thus giving a single sideband output. Sideband switching is accomplished by reversing the audio leads to one on the balanced modulators, as is indicated in the block diagram by the reversing switch.

The importance of having the proper phase shift and amplitude relationships cannot be over emphasized. If an error of 1 degree in phase shift is present the sideband suppression will be 40 db., but if the error



is increased to 3.5 degrees the sideband suppression will drop to 30 db. If an amplitude difference of 1% is present the sideband suppression will be 45 db, and if the amplitude difference is 4% the suppression will be 34 db. If there are both phase and amplitude errors, the suppression will be downgraded even more. It can be seen that with both an audio and an R.F. phase shift network present, these factors become somewhat difficult to control accurately. The aforesaid information has caused your author to prefer the filter type exciter which, although somewhat more expensive to buy or build, will provide superior performance in the long run.

NEXT MONTH: Linear amplifiers and mixers

Harlan Bercovici, KØBHT

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## FOR SALE

Elmac AF-67 xmitter with PE 103 dynamotor.

Elmac PMR-7 receiver with 6-12V power supply.

Both like new with heavy duty racks - - - - \$300.00.

Call: Dave Hollander, WØCJW  
6016 Hickory Street  
Omaha 6, Nebraska  
Regent 2696

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## MINUTES OF THE LAST MEETING

The last regular meeting of August 8, 1958 was held at the 4-H Building, Ak-Sar-Ben Field at 8:00 P.M. Presiding, Ed, WØCQX, temporary secretary, WØJJK, Al. (Editors Note: Dave, our regular secretary, at 8:00 P.M. CTS, hoisted a good luck cheer in a London bar and a toast to Ak-Sar-Ben Radio Club. You figure out the GMT.) About 40 members attended. The Club history in pictures was prepared and presented by WØNAG, Bob Downing. These pictures will be covered with plastic covers for their protection and it is planned to have them at the meetings for the general good of the Club.

Tom Doll, KØOKS, was selected by the Board of Trustees and approved by the membership, upon motion made by John Droscher and seconded by Jerry Novotny. Tom will serve until December to fill the unexpired term of Rolly Johnson.

The program of the evening was gadgets. Gadgets were brought and explained by KØJQS, WØCQX, WØLFM, KNØMQB, KØKQK, KNØMJK, KØKES, WØJJK, KNØOPQ and KNØOBF. The Club's thanks go to these fellows for bringing their gear.

This program was followed by movies and refreshments.

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Dear Editor:

Here is some recent VHF info.

The 50 mc. band appears to be attracting more and more of the ham fraternity all the time; some newly heard stations on six are KØIJS, WØLFM, WØYCP plus some other locals whom I have probably not worked personally. Welcome to six, fellows, and I hope you gain a very keen interest in VHF.

There have also been several new stations heard on 144 mc. in the Omaha-Lincoln area. It is especially encouraging to note that the 2 meter Civil Defense net has gained some new members from this increase in activity. Welcome to the CD net to KNØPQC out at King Lake, Valley and also to Joe McNulty, WØUIX who has finally put up his 10 el. Hy-Gain beam. hi!

With so much VHF equipment construction taking place lately, it might be worth mentioning that the most essential piece of test equipment you could have is the little GDO or grid-dip meter. Without it, you are simply lost when trying to find the frequency of a tuned circuit. Heathkit makes a very good GDO for use up to 250 mc. and sells for around \$20.

We have an Army handbook entitled 'Radio Fundamentals' in New cond. and it may be had for the asking. Any interested party, contact me .. RE 1538.  
10

Wonder what's become of Terry, WØCJD who had made an appearance on 2 earlier this summer and we haven't heard him on lately. Also gud to hear Al, WØJJK back on 2 m. once again after about four yrs. and Al is using one of the new Globe Highbanders at his QTH in Papillion, Neb.

Would be nice to have some more stations on 2 meter mobile - in view of all the commercial interests using 2 meter FM (we could name a dozen or more in Omaha alone.) you'd think that more than a few amateurs would be interested. Really works out FB too. I recently had the occasion to start out from Lincoln and talked all the way back to Omaha from my 2 m. mobile without losing contact over the entire route except for a few seconds at a time. Admittedly, conditions were good on that particular evening but the fact remains that this probably couldn't be done on any of the DC bands.

Also worth mentioning - Hy-Gain in Lincoln is manufacturing a new line of 2 m. yagis and see that they're finally going into some wide-spaced designs and also making them for 208/52 ohm feed instead of the 450 open line. Since RG-8/U is almost the standard amateur co-ax, I believe this is a good change.

73,

John Snyder, WØWRT

## NEXT BOARD MEETING

The next Board meeting will be held at the home of Gutmann, W0CQX, on October 15th. Anyone having items to bring up before the Board is welcome but Ed would appreciate a phone call so his XYL can throw another cup in the pot.

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Pse. change my call in the roster. Call now is K0JBC.

Tnx,  
Harold Jacobs  
2312 Deer Park

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## VHF NEWS

WIBOM is on 50 Mc SSB 50.100  
50w PEP going to a KW.  
K1ACD is on 50 Mc DSB 50.150  
300w PEP.

WIBOM is using a 10B. See May 1957 QST "SSB Ideas for the V.H.F. Man" by W1HDQ. 50 Mc SSB with the 10B exciter this is the one that I am using.

WIBOM  
John F. Abt

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## FOR SALE:

A meter 3 element wide  
placed Hy Lyte beam with new  
CDR AR-22 rotator & indicator.  
All for \$35.00. Don W0QFZ,  
2318 Second Ave., Council Bluffs.

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Dear Mr. Ham Hum:

Ahv been away a long time now - been way up nawth in Minneapolis but folks kinda thought ah was no good as a Yankee. Been down here in Dixie - Memphis, that is - since February. Been eatin black-eyed peas, turnip greens and white side meat with corn bread and folks think I might make a pretty good rebel and be able to carry the Confederate flag. Just cleared a cotton patch and built a house at 5310 Sycamore Grove Lane. Aint got a new call yet - fact is - aint got a rig on the air - but will have soon.

Regards,  
Art Stadler  
W0QMD/4

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## DX LOG

The G.E. Ham News, July-August, 1958, is a special DX log issue, revised as of July 15, 1958. Perhaps your local distributor might still have one. The Club copy will be at the next meeting for the first guy that might ask for it.

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(From HARC NEWS, Heart of America R.C. and CQ News)

## A Safety Reminder:

When you are tempted to use a cent in place of a burned out fuse, remember, "In God We Trust" was put on it for your benefit.

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A new VHF Transmitter is now available for amateur use, which combines the 6 and 2 meter bands into a single package one transmitter combination. This item is being produced by Globe Electronics of Council Bluffs, Iowa. The unit is rated at 60 watts input CW, 55 watts AM. The output circuit is designed to match coax-fed antennas 20 through 75 ohms. The unit incorporates a 4-stage RF section so that the final amplifier tube (6146) operates straight through on both 6 and 2 meters for top efficiency. 4-stage metering allows easy tune-up. A duo-band final tank circuit eliminates switching in the final amplifier stage and, consequently, achieves optimum efficiency due to elimination of switches from the RF circuit of the final. The unit incorporates internal AC power supply for 115V AC operation. 110V is provided at an accessory socket

to operate antenna relays and other accessories. The unit is housed in an attractive "forward look" cabinet, with dimensions of 8" X 9" X 14" and weighs approximately 30 lbs. The unit is designed for extensive suppression of harmonics, well-shielded and by-passed. It may be used with crystal control utilizing 8 megacycle range crystals or an external VFO with output in the same frequency range. Provisions are available at the rear accessory socket to quickly disconnect the internal AC power supply and use the unit as a mobile transmitter, where outboard dynamotor or similar power source is provided by the user. The manufacturer shows an amateur net price of \$149.95 on the wired model and it is available in kit form at \$129.95, the latter including all tubes, pre-punched chassis, and detailed diagrams for assembly.



## VFO Model 6-2



Globe Electronics offers the Model 6-2 VFO as a companion unit to the above VHF-62 "Hi-Bander." Of course, it can be used with any similar transmitter which normally requires 8 megacycle transmitters for operating on 6 or 2 meters. This is in an attractive cabinet, measuring 7 1/8" X 6 5/8" X 8 1/2" and weighs 9 lbs. It is complete with internal regulated power supply for 110V AC operation. It features a king-size 7" dial and is temperature compensated for extremely good frequency stability. The unit features a 13-1 tuning ratio and, in addition, there is a separate control for slight frequency excursion and exact zero beating. The unit has a calibrate switch on the front panel for frequency spotting or tuning of

the transmitter exciter stages. The VFO has RF output of approximately 50 volts, suitable for driving any commercially made transmitter with suitable multiplier stages from an 8 megacycle fundamental range. The manufacturer guarantees a minimum of drift, less than .003% on 6M and less than .006% on 2M.

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## OFFICIAL BULLETIN NR 672 FROM ARRL HEADQUARTERS WEST HARTFORD CONN SEPT 25 1958 TO ALL RADIO AMATEURS BT

In order to give the Radio Amateur Civil Emergency Service more leeway in use of radio remote control and audio frequency shift keying, FCC on Sept. 19 released proposed rule-making to amend present regulations to permit radio remote control of amateur stations on frequency bands at 220 Mc and higher instead of 440 Mc. and higher as now. Also proposed is addition of use of narrow band audio frequency shift keying to the entire six meter band. RACES regulations are similarly proposed for amendment to add, in the 50.35 to 50.75 Mc segment, type 6F2 emission. Deadline for comments on this proposal, docket 12607, is November 20 AR

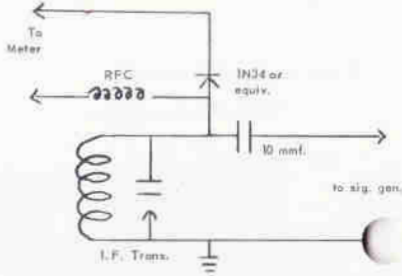
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## TECHNICAL DOPE SHEET

### de THE GROUND WAVE

Every ham who ever has or ever hopes to build himself a receiver, has a stock of used I.F. transformers on hand, salvaged from old radios, TV sets and whatnot. As time goes by he usually forgets (if indeed he ever knew) the connection, frequency and internal vagaries of these potentially useful components.

Regarding correct lead connections, primary and secondary leads can be discovered by ohmmeter continuity checks. Altho the transformer will work about as well whether one winding is reversed or not, it's usually best to use it as the manufacturer intended. If leads are present and are color coded, they will nearly always conform to RMA standards, i.e.: blue to plate, red to B plus, green to grid, and black to ground or AVC. If lugs are used and are unmarked, first find the two ends of each winding with the ohmmeter. Then after disassembling the unit it can be seen which leads go to the inside and outside of each winding. The inside leads are plate and grid leads, theory being they are thus shielded by succeeding turns, which are more nearly at ground potential, being bypassed in each case at the outside end of the coils.



Some I.F. transformers come equipped inside the can with capacitors and resistors. The capacitors of course always bypass the B plus and AVC ends of primary and secondary respectively to ground. The resistors, when present, are nearly always of about 1000 and 100,000 ohms in value; the smaller serving as B plus decoupling and the larger performing the same task in the AVC return circuit. If no AVC is used on a particular stage the outside of the secondary winding can go directly to ground and the associated bypass and resistor removed. These resistors, incidentally, also serve as a clue which is primary and secondary winding.

If you have access to or own a signal generator and a fairly sensitive milliammeter or low-scale voltmeter, the accompanying circuit will serve as a convenient method of establishing the resonant frequency of any I.F. transformer. Connect the unit as indicated, and a pronounced rise in meter reading will indicate that the generator is tuned to the resonant frequency.

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## EDITORIAL

We just read an editorial in the YARC-MITTER, the paper the Yonkers Amateur Radio Club, in which the editor takes the Hams to task a little for knocking the other fellow's way of hamming. He calls attention to the fact that each of us has our own ideas as to what part of the hobby we like best. It may be building or CW or DX, but at any rate there seems to be a tendency to belittle the other fellow's choice of activity. He suggested that, "Let us not criticize the other fellow for what part of Ham radio he likes as opposed to what we like but instead let us speak of the many varied activities available to anyone who is a Ham, is becoming a Ham, or is just interested in our hobby. In this way we will continue to have a growing and more intelligent group of Hams in the fraternity as a whole."

This goes along with an idea we have had for some time of running a series of articles on the various activities in our hobby as written by those who enjoy that activity most. With the many activities possible, this can make quite a string of articles and not only would help fill the pages of Ham Hum month by month, but could be of great interest to all Hams, would be Hams, and friends of Ham radio. How about sitting

down right now and figure out an article you can write about your favorite part of the hobby? We're not talking about the other fellow this time - we're talking about YOU.

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## CURTAINS FOR THE BLIND

(de--CQ News)

Two regulations of F.C.C. are being overlooked or ignored by many local operators that could mean losing of license if the Radio Inspector should drop into your shack. First of which is, Friend Charlie Charlie says that each station must have means of accurate calibration other than his transmitter or receiver. How many have Xtal Calibrators or Frequency meters that can be checked periodically with WWV? Fine. Secondly, do you have all CONELRAD Monitoring on when on the air? FCC would not like it if he knew you were skipping that regulation.

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## COLOR TV

(de--CQ News)

Cuba via its newest television station, Channel 12, has become the first country in the world to have complete color commercial programming. The station offers 20 hours per day of color programming including all-color newcasts.

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**AK-S/ BEN RADIO CLUB INC.  
P. O. BOX 626  
OMAHA, NEBRASKA**

**NEXT MEETING  
AK-SAR-BEN 4-H BUILDING  
AK-SAR-BEN FIELD  
OCTOBER 10, 1958  
8:00 P. M. SHARP**

**BULK RATE  
U.S. POSTAGE  
Paid  
Omaha, Nebr.  
Permit No. 221**

**Form 3547 Requested**