

PACK RATS CHEESE BITS

VOLUME IV

MT. AIRY V.H.F. RADIO CLUB INC., PHILA., PA.
(50.2, 144.2 and 221.4 MC)

NUMBER 8

W3CCX

(meeting notices, last page)

NOVEMBER 1961

Many people have asked the origin of the name of our paper. The answer is simple; Rats eat cheese and we endeavor to pass along bits of news which we believe our readers will be interested in. Hence the name "Cheese Bits". We send out over 150 copies throughout the the U.S. and one copy goes to India. As Editor, at times there are subjects, not necessarily pertaining to radio, but to the safety of the people; so I express my opinions; to-wit;

FALLOUT SHELTERS

First of all I would like to point out that I am in favor of them. Everyone should have one. It seems that our government officials have not taken into consideration the difficulty of building one when you live in a city in a row house. Yes they do say to build a lean-to in your basement. Lets take the average basement. It has four walls, and at least, two windows and a door. Mine also has a garage in it, like a number of others. I also have a 35' driveway. OK, so you say I should build one under the driveway. Fine, but what happens to ventilator pipe when we put the car away? If your basement is like mine, you have the gas meter on one wall, with the pipes going the length and width of the basement to supply gas for your hot water heater, house heater and gas range in the kitchen. That takes up two walls. The other one is under the front porch. The gas pipe from the main runs through there. There are also three windows. There goes the third wall. The fourth wall, as you know, is the garage. Now tell me, where's the safest place to build a lean-to in my basement?

Now let's take the suburban homes. Most of them have no basement, only an air space under the house. Most of them heat by oil. Let's face it, oil is just as dangerous as gas.

OK, so you are fortunate enough to have the ground to build a shelter. You spend a couple of thousand dollars doing it. What happens? Your local government says you are improving your property so you must pay more taxes. Why? Are they trying to get more money out of you before you are killed?

Over a year ago, at a CD meeting, plans were presented to build shelters under the Phila. schoolyards. That's it, plans were presented. Nothing matured. Believe it or not, but we have been trying for more than three years to get litters in the Mass Care Center. We still don't have them. I can't even get I.O. cards, should the center have to be activated.

If you are fortunate enough to build a shelter you must rotate your food supply so as to keep it fresh, especially your water supply. Your best containers are tin cans, sealed, naturally. Acid comododes should be used to take care of your natural waste material. You should also have a charcoal stove for cooking, with a good supply of charcoal. For illumination you will need either a generator, oil lamps or candles. For communications it is essential that you have a portable radio, with a good supply of batteries.

It is true that nearly all communities have evacuation routes, but what are they going to do with the people if there is no fallout shelter for them when they get there?

If you can't build a shelter, the best thing that I know to do is; Close the doors, windows and blinds and take shelter in a downstairs closet, and pray to God for help, as He is the only one who can help you.

Sorry I took off like that, but that is the way I feel about it. It has nothing to do with radio, but Hams are people, and even though their QSO's are silly at times, they play an essential role in the preservation of human life.

Remember it is better to be prepared than to be caught with your boots off.

"CHEESE BITS", PUBLISHED MONTHLY BY
MT. AIRY V.H.F. RADIO CLUB, INC.,
PHILA., PA.

10¢ a copy \$1.00 a year

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MEETINGS: DIRECTORS: Second Wednes-
day, each month. 0100 GMT
GENERAL: Third Wednesday,
each month. West Oak Lane
Jewish Community Center,
Sedgwick and Thouron Sts.,
Phila., Mt. Airy, Pa.
0100 GMT.

NETS: 144.2, Monday, 0100 GMT
50.2, Monday, 0200 GMT
221.4, Monday, 0300 GMT
NITWIT: Monday, 0330 GMT

(Editor's Note) Since the ARRL rec-
omends GMT we are using it. All you
need do is add 5 hours to Standard
Time to get it. Example; 0100 = 2000,
or 8:00 P.M. S.T. or D.S.T. One easy
way for you to keep your log in GMT is
to set the clock in your shack 5 hours
ahead.

10 WAYS TO KILL A CLUB

(Where it came from I don't know)

Don't attend the meetings; but if you
do, arrive late.

Sit well to the rear so that you can
talk freely with other members while
the meeting is in progress.

Don't contribute to the discussion -
wait until you get outside.

If asked to help, say you haven't the
time.

Never accept an office; it's much eas-
ier to criticize if you're not an off-
icer.

Don't do any more than you have to,
but be ready to howl that the organ-
ization is run by a clique.

If appointed to a Committee, wait for
someone else to do the work.

Be sure to leave before the meeting is
over.

Don't ask anyone else to join.

If you receive a bill for dues, ignore
it.

That reminds me, number 9 in the above.

It is true that membership is by invit-
ation only, BUT our meetings are OPEN
to any who wish to attend.

TO THOSE WHO OPERATE MOBILE AND THOSE
WHO ARE CONSIDERING IT

By, K3J3Z, Elliott Weisman

Needless to say I am one of those who
do. I won't take too long to extoll
the virtues of mobile operation, be-
cause this would be unnecessary repi-
tition of material that can be found
in the Handbook, CQ, QST and above all
the manufacturers specifications on
mobile gear. The tell you ALMOST ev-
erything. But I'm getting away from
the subject. I would like to discuss
antennas. Not from a technical point
but probably from a more social or
even esthetic side.

The original antenna for mobile use
was, of course, the vertical whip.
It was spring mounted in a variety of
areas. To those of you who have op-
erated mobile with a whip;

How many times has the XYL claimed
that you would all be electrocuted
when that goofy thing hits the trolley
wires?

How many times did her face turn
white when you heard the "spong" after
slicing a piece out of a low hanging
tree?

How many times did you wash your own
car because the people at the minute
car wash wouldn't let you in?

How many times did you drive down-
town into one of those enclosed park-
ing lots and knock out their flores-
cent lights?

How many times has a youngster ap-
proached you with, "Hey, Mister, are
you a cop?"

How many times has the car in front
of you slowed down, thinking you really
are a cop?

How many times have you walked out
to your car to find some little mon-
ster swinging the whip back and forth?

How many times has the paint cracked
right where you mounted the spring?

So much for the vertical whip, which
I will agree, was probably the least
objectionable as far as looks were
concerned. Later developments brought
us the helical whip which was even
better looking, since it was much
shorter.

Now we come to modern advancements,
horizontal polarization. To accom-
plish this we can use, 1 ring gamma
matched halo, 2 ring home brew halo,
3 ring Saturn 6 halo or 4 ring Ebco
(Cont'd next page)

(MOBILE Cont'd)

(K3HWZ will pay me later for the plug)
The writer uses a 4 ring Ebco halo, baluun matched. Anyhow if you thought you had problems with a whip, wait till you see what you have now. Where in the Sam Hill are we going to mount this monstrosity. Many people are adverse to drilling holes, so we see quite a few bumper mounts. The writer sincerely believes that this is a crummy mount. Not only does the halo shake back and forth and vibrate itself to dust, but you also run the risk of vibrating the bumper clean off. I maintain that trailer hitches are for trailers only. Now we have in our midst certain ingenious fellows who will not use a trailer hitch. Instead they design their own mount which usually takes the place of a back-up light, tail light, license tag, or some othe non essential. Most of these also vibrate like the devil. Now we come to the trailer hitch plus. Plus what?? Plus something else to hold the antenna, of course. K3HWZ used to have an auxilliary clamp on the top of his station wagon, a similar installation was made by K3GAS.

And then we come to the boys who are chicken. The roof carrier installation that can be removed in 5 minutes if you should have to make an impression on some one who doesn't understand, or if you would rather not explain what this contraption is for.

And last, but not least, the type like myself, who doesn't care what it looks like as long as it works better. Mounted straight through the trunk deck and bolted to the floor, and strong enough so that you can shake the car with it, is my halo.

Halos, of course, being so much more obstrusive than the whip provoke many more comments.

From the XYL's;

"It looks freakish."

"I don't care how it works, I'm not riding in that car."

"We're the laughing stock of the neighborhood."

"I hate you and your stupid hobby."

"Can't you keep it inside the trunk?"

"What happened to the other antenna?"

Then; of course, from the outsiders;

"Hey, look at that thing."

"Hey, buddy, what's that for?"

"Do you have a television in there?"
ad nauseum.

And last, but not least, some of the wisecracks that we use to answer these inuuiries.

"It's a portable shower."

"It's for playing basketball."

"I'm an angel."

"It helps to balance the car."

"It protects the car from radio active fallout."

"It's a new kind of air filter."

"It's for tracking sputnicks."

So fellows if you aren't already mobile, and you feel you can tolerate what I

have described, by all means GO MOBILE.

K3JJZ (the kiddie car mobile)

Watch for El's report on the raising of W3MVF's beam.

From Ham Buerger, W3BQU

REGISTRATION NOW OPEN

In case you are not familiar with our Ham Radio School here is the scoop. Since ham radio is a hobby that is tough to break into, we decided to do something about it. Our first thought was that we must have a really first class course run by a person experienced in teaching Ham radio. To do this properly, we are charging a nominal amount to defray expenses, thereby giving you something worthwhile. Our classes will teach code, theory and some practical laboratory work so that you can learn by doing. We will also show you how to put a Novice station "On the air".

Our instructor is Carl Rothman, W3CTT, a ham since 1935. Carl has had a lot of experience teaching radio and helping others to obtain their Amateur Radio license. He is one of a ham family - with two sons also licensed.

So, how about it? You surely know someone who has been envious of your ham activities and has openly wished they could get started. Pass this information on to them and have them call us for more details on CA. 4-1740 (Phila. Phone). Don't forget as class starts October 26th and the size of the class will be limited.

Ham is a Brother Rat and his store, Ham Buerger's, is located at Rice's Mill Road and Glenside Avenue, Wyncote, Pa. The stor phone number is, TU. 6-4044. Give his class a boost.

Congratulations and good luck, Ham.

DID YOU HEAR?

By W3HKZ, Ed Kushner

In a hobby which normally concerns itself with electronics, it is perhaps appropriate to take note of the remarkable device which, in a sense, is the cause of it all. I refer to the human ear, and to the phenomenon of hearing which enters into so many facets of amateur radio.

Human hearing is indeed phenomenal. Nerves can scarcely carry 1000 pulses per second, and yet we hear to 18000 cycles per second and beyond. With the assistance of a physiological automatic-volume-control mechanism, we can percieve an almost painful sound containing 10^{12} times as much energy as the weakest discernable sound. The trained ear can make remarkably good guesses about the pitch of a tone, and a favored few people have authentic

absolute pitch. An especially attentive ear can act as a wave analyzer in identifying the primary constituents of a complex tone or noise. The ear has a poor memory for loudness, so mark knob settings and look at "S" meter. On the other hand, it has a remarkable ability for picking out one desired conversation in the QRM.

73,
Ed, W3HKZ

HEATH SB-10 MODIFICATION FOR 6 METERS

By CAPT. GEORGE M. HUNT, W4NUT
1218 SW 21st CT, Fort Lauderdale, Fla.

I have felt for a long time that there must be an easy and inexpensive way to get SSB on 6 meters. This is how it can be done for \$3.95 if you own a Heathkit SB-10 -- or under \$100.00 if you are going to buy a SB-10.

Briefly, the SB-10 is a phasing type single sideband adapter, manufactured by Heath of Benton Harbor. Requires 3 watts of drive and gives approximately 10 watts PEP -- 300 v. @ 180 mls -- are required. The original unit was made to cover 80-10 to be used in conjunction with the Apache or DX-100. The 80-10 signal is fed into the SB-10 from any source -- phased -- and converted to SSB. So why not feed 50 MC in, phase, and get 10 watts of 50 MC SSB? Here is how it can be done.

Parts required.

- 2 65 or 68 mmf silver micas (These must be matched)
- 1 pc. Airdux 416T
- 1 CRL PA2 2 pole 6 pos. switch
- 1 SB-10 New, used or what

If your SB-10 is in operation or just standing, you are at a slight disadvantage. However, if you are building, you have it made, as the modifications can be made during building. So step by step - using 10 meter section --

Step 1. Remove from the balanced modulator subchassis the 2 silver micas marked 110uuf. The bottom on section B, the top on section A. Replace with the carefully matched 65-68mmf. silver micas. These must be matched; Heat uses 1% units, however, close matching will do.

Step 2. This takes time and care - especially if the SB-10 is completed. Carefully remove the far end of the band switch stack, down to the coil and 2 wafer assembly, Heath part 40-122, taking all wafers off, etc. The 2 longest spacer tubes are cut in half; use a sharp knife and roll tubes under blade till scored thru. Make sure the 4 pcs. are the

of the same length. Reassemble bandswitch, placing BS4 in the spacer cut; about 1/4" closer to BS3 for the units already built. If wire length will not allow this move, place the CRL PA2 - 2 pole, 6 position switch in this place. We are adding a bandswitch to the stack. Try to get the BS being added in the position BS4 originally occupies, but if wire length prohibits this, leave it where it originally was and place the 2P6P switch between 3 and 4. OK? However, no matter where you place the new piece, it shall be called BS4A. Assemble as follows: 2 cut spacers -- BS -- 2 cut spacers -- BS. Be sure lugs face front and index marks are all in line. Reassemble as original from there on out. A new bandswitch has been added -- BS4A.

Step 3. Drill a 3/8" hole in the general vicinity of the 10 meter tuning coil, Heath part 40-127. Try to get near the capacitor on the RF subassembly. Use a grommet.

Step 4. Rotate the bandswitch to the 10 meter position. Note the position of all the wafer contact plates. Determine the 10 meterpoints on all coils. Carefully clip the 2 10-meter lugs, #7 on BS2-BS3, (Coil and wafer assembly) disconnecting the coil from the switch. Do not destroy the switch or coil, just separate the junction - 10 meters is pole 7. Thus you can always go back to 10 meters by resoldering.

Step 5. Refer to sketch. Using a piece of Airdux 416P (16TPI, 1/2") or B.&W. no. 3003, 8 turns, determine the center, solder a 6" piece of #20 plastic covered at this point. Place a 2-turn link of #20 plastic about the center of the coil. Leave 6" pigtails. Split the 2 turns with the center tap.

Step 6. Refer to sketch. Bend a piece of #16 tinned into a short leg, long body "U" shape. Solder both ends into lugs 7 of BS2-BS3, parallel to the existing 80-10 coil. Cut out center of "U" to accept coil prepared in step #5. Solder coil to the supports as shown in sketch. The new coil will run parallel to the existing 80-10 coil, about 1/2" from it.

Step 7. Grid dip this coil to 50 MC with the bandswitch in this position. Some cut and try
(Cont'd next page)

is necessary. Be sure the 50-50 variable is about $\frac{1}{4}$ meshed. In cutting and trying be sure equal amounts are trimmed off the new coil; keep the center tap at the center. Go in small steps about $\frac{1}{2}$ turn at a time. Till the coil and condenser resonate at 50 MC - about $6\frac{1}{2}$ turns will be the final dimension. You now have 6 meters in place.

Step 8. Connect the center tap of the new coil to the high end of RFC 1.1 mh or point lug #2 (B+) as shown on the SB-10 print. Connect one end of 2-turn link to BS4A, other end to ground. Be sure the end that goes to BS4A attaches to the 6 meter position lug.

Step 9. Jumper remaining switch lugs BS4A on this half of the switch only. Do not go into the other 180° segment of the switch. You should have one point for 6 meters, the rest (5) tied together for the other bands.

Step 10. Unsolder the ungrounded end of the original 2-turn link on the 80-10 coil, lead to and solder to the jumpered series of lugs on BS4A. Solder a piece of #18 plastic covered from the common point for this same half of the switch and lead back to where you lifted the ungrounded end of the original link. Briefly, here is what you have done: Referring to the SB-10 print, you have placed a 6 meter coil across the spot formally occupied by the 10 meter coil. This new coil is in the circuit only when the bandswitch indicates 10 meters. You have broken the grid connection of the 6CL6 driver in front of the .01 condenser and thru the switching can throw either 6 into the driver or switch back for 15-80.

Step 11. Carefully remove 2 turns from the 10 meter tuning coil. (Slug tuned coil with least number of turns.)

Step 12. From bandswitch 5 (BS5) unsolder connection from lug 6. Route this lead through grommet to common point of 2nd half of BS4A. Determine the 6 meter lug for this half. Use a 5-lug tie point bar, 2 ends to ground, 3 center tap. (See sketch). Carefully solder one end to final coil supporting bracket, being sure to trim lug foot so that it does not ground out any of the adjoining circuits. Trim the other supporting foot and carefully solder to the output end lug of the coil. Make sure this tie does not touch

any of the coil turns, as a grounding or shorting precaution. Trim out one tie point so it makes like a man with one tooth out. Connect one of the ungrounded lugs to 6 meter lug BS4A, 2nd section using #20 plastic covered via the grommet.

Step 13. Cut a $3\frac{1}{2}$ -turn piece of Airdux, 416T, or equal, leaving a stub for soldering. Connect one end to the output end of the coil; form the other end to the tie point wired in step 12. (lead to BS4A)

Step 14. Jumper remaining lugs on BS4A. Lead a piece of #18 plastic covered thru the grommet to point 6 of the original coil, other end to the jumpered lugs on 2nd $\frac{1}{2}$ of BS4A. Here is what has been accomplished. You have provided a separate 6 meter final coil and can throw in or out of the final circuit. When 6 is in, the others are out and vice versa. Do not alter the original coil as the turns are calibrated for coverage on the other bands -- so now with 50 MC drive let's give it the smoke test.

Use a dummy load - a small #46 bulb is fine or whatever you have in the 2-5 watt low voltage line. 5-250 ohm carbon resistors in parallel makes a fine 50 ohm load.

Word about drive -- I have driven my SB-10 from my Seneca just by tapping off one of the 6146 grid leads thru a 100mf capacitor and out the back. To do this you must use only the spotting switch to furnish voltage to the Seneca driver. Do not turn on the final. Any small 6 meter transmitter giving no more

than 3 watts out is fine. I finally built an xtal oscillator for drive. But 3 watts of RF drive is fed into the SB-10. Tune into dummy load for max on SB-10 meter and the bulb should lite. OK so far. Remember one important thing. The drive frequency must be stable. There must be no drift or FM.

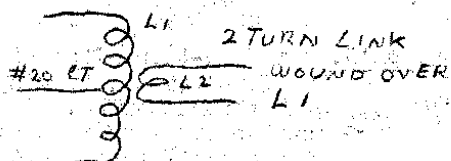
The max indication I was able to get into the dummy load was 20 on the meter which should lite the bulb quite brightly. The SB-10 is designed to feed directly into the grids of an amplifier. Any amplifier tube, or tubes in parallel that do not need more than 5 watts can be driven. I feed mine into either a pair of 6146's parallel, a 4X150 or what have you. I have also run from the Seneca and back into the Seneca final but this entails many Seneca changes. However, any final AB, AB2 or class B could be used.

One final thought. If any distortion or FMing is noted on signal, reduce drive to SB-10. Check signal in AM with carrier added and get a clean signal.

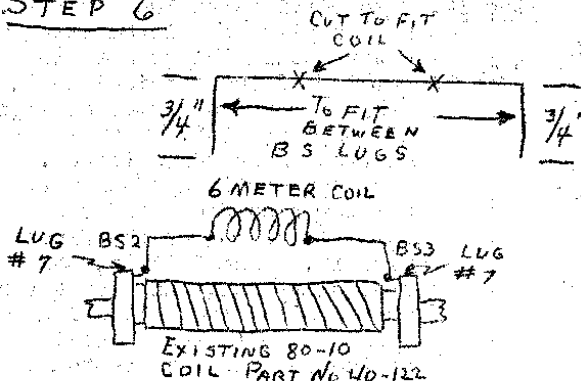
HEATH SB-10 MODIFICATION FOR 6 METERS SKETCHES

(Time out boys, while I check my finger nails and finger tips to be sure I still have them. That was a bugger!

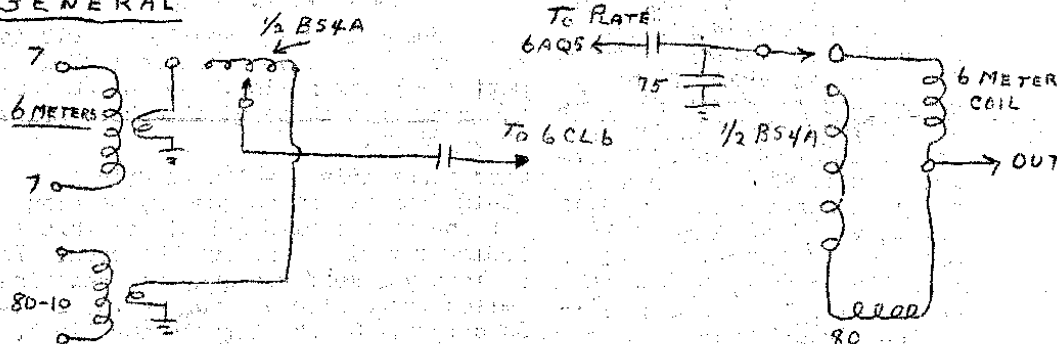
STEP 5



STEP 6



GENERAL



NEW PRODUCTS OF INTEREST TO HAMS
By W3NSI, Lynford Rowland, Jr.

Item 1. Amperex 5895 Twin Tetrode
Rated at full input of 48
watts (CW) on 144 Mc.
This tube reaches an opera-
ting level of 85% of full
emission in 1/2 second. Should
be useful for mobile opera-
tion together with Transistor
Modulators.

Price -- Not available

Item 2. Heathkit "Tunnel Dipper"
Model HM-10
Frequency range 2.7 Mc --
270 Mc.
Self powered (battery), no
cords.
Size 4"x5"x5 1/2"
Epoxy-coated plug-in coils
Price \$34.95 (available after
November 10, 1961)

Item 3. Heathkit 3" Scope Model 10-21
Compact design - light weight.
Size H-9 1/2" W-6 1/2" D-10"
Push-pull vertical and hori-
zontal amplifiers.

Access to Vertical Deflection
plates for modulation checks
on transmitters. (SW on rear
of unit)
Price \$49.95

WHAT HAPPENS

On Tuesday, October 10, Harry, W3CL,
was in QSO with Bert, K3IUV, on 220.
When Harry turned it over to Bert,
no answer. After several attempts
to raise him, Harry figured some-
thing was wrong, so he called Al,
K3EOD and asked him to run over to
Bert's. Al reported back that all
the lights were on and there was
broken glass all over the front steps.
Harry later learned, from Bert, that
Michael, the Jr. DP., tripped while
putting out the milk bottles and got
cut across the forehead, requiring
stitches and clamps. So, Bert, just
naturally took off for the hospital
with him.

Hope everything is OK now.

WHAT HAPPENS (cont'd)

Congratulations to John, W3AYG, on his election as President of the Delaware Valley Council Amateur Radio Clubs.

Al, K3EOD, has received his "Greetings" from Uncle Sam. This may be news to most of you, but Al's sister, Jerry, K3EOE, told us at the picnic that he was expecting them. Best of luck, Al, and let us know how you make out.

Horace, W3AJF, spent two weeks at Ocean City, during Donna. The next ten days were beautiful. He must have had a penny in his pocket to keep from blowing away, hi.

Herm, K3G0Z, is feeling better and expects to start night work on the 23rd of October. Sorry we goofed, and forgot to congratulate you and Betty on the birth of Ron's son. Seven grandchildren now, Herm?

Ed, W3CFS, got a new beam on 6. The raising took place on October 15th in all the wind. Sorry he got a new one, we hear him too good now, hi.

Jim, W3KXH, reports that he is pleased with the reports received from those taking his code lessons.

Harry, W3CL, is now logging the 6 meter net in groups, by location, to save swinging the beam each time he calls a station in. Works out good and keeps the boys on their toes. They may call in number 29, but may be number 6 in group one.

The next time you see Joe, W2EIF, ask him what he did to Frankie's power supply on Monday, October 16th, with that remark he made about Ed, W3CFS.

UN WEEK, OCTOBER 23-28

Station K3UN will be set up in the Phila. National Bank Building, in the window on the Chestnut Street Side. Frequencies on-the-air will be 10-15-20 meters. We understand that VHF-Teletype will also be demonstrated.

This set-up is sponsored by the Delaware Valley Council Amateur Radio Clubs to demonstrate to the public the services of the amateur to them and the country.

(Editor's note) Just so you won't think that I was out in left field last month when I reported UN Week as the first week in October.

At the beginning of their year I was given a list of events and meeting dates for the council. Some events were canceled and I was notified. For some reason they did not have their meeting in July. I called the secretary, in September, to find out about UN Week, and he told me that as far as he knew, because of no meeting in July, I had the correct date. After "Cheese Bits" was mailed out, I saw in the newspaper that the dates were wrong.

Stop in at the exhibit in the Phila.

National Bank Building, Broad and Chestnut Streets. I will stop in on Wednesday, October 25th, as I have a Civil Defense Council meeting at City Hall that day. Give you a report next month.

SWAP SHOPPE
Conducted by,

W3ZRR, Raymond Whitehead,
4534 N. Smedley Street,
Phila., 40, Pa.

FOR SALE: AMECO 6 meter Converter \$24.00
4 element Telrex 6 meter beam. Used two months. \$15.00

CONTACT: K3MUT, GORDON BENNETT
565 E. Tioga Street,
Phila., 34, Pa.
215-GA. 5-6537

FOR SALE: 15 meter converter-output 80 meters; built in power supply. Provisions for antenna relay contacts. Best Offer.

Power Supply
400 V DC @ 400 Ma
250 V DC @ 100 Ma
12.6 AC @ 10 amps
12.6 DC @ 50 Ma DC for relay. \$30.00

75 & 80 Transceiver
100 watt VFO
Q5er receiver and converter. Plate modulation; 2-807's.
Best offer.

CONTACT: K3BPK, DAVID GINDIN
6504 Roosevelt Boulevard,
Phila., 49, Pa.
215-JE. 3-1849

COMING EVENTS

OCTOBER: 23-28 UN WEEK
28 MAHANDY VALLEY BRASS
POUNDERS DINNER

NOVEMBER: 8 DIRECTORS MEETING
15 GENERAL MEETING
19 W300, TOM BENHAM
presents his "VOICES
OF THE SATELLITES"

"VOICES OF THE SATELLITES"

On Sunday, November 19, W300, Tom Benham will be the guest of the "Pairs & Spares", of Holy Trinity-Bethlehem Presbyterian Church, 11th and Rockland Streets, Phila., at 6:00 P.M., in the Social Hall.

To our members and friends who missed this wonderful talk and demonstration, when Tom was the speaker at our meeting, a few months ago, we extend an invitation to hear it now.

Frankie, W3SA0, was appointed, by the president, Jack, W2AXU, to be the Historian of the club.

NEW MEMBERSHIP LIST INCLUDED

In this issue you will find the latest membership list. It is stapled together separately from the rest of the paper. Please remove it and keep it by your rig or telephone. DO NOT LOSE IT as many of the phone numbers are unlisted, and you cannot get them from the telephone company.

You will notice that John, K3IUZ, has moved. At this time we do not have his new phone number. As soon as we receive it, it will be in "Cheese Bits".

Some members like to have two lists, one for home and one at work. If you are one of these, Frankie will have extra copies at the November meeting. Ask him for one.

You will also notice the address and phone number for Ralph, K3CIV, is listed as registered with the FCC. He is now staying with Ellis, W3IXL. If you wish to contact him do so at the address and phone number of Ellis.

A FEW WONDER WHAT HAPPENED

What happened to our "Bluebird of Happiness", Doc, W3JAY; Lenny, W3HYD; John, K2SMZ; Lee, W2KFC; Al, K3BEF; Ben, K3BVZ; Tom, W3DRC; Jerry, K3KVS; Vic, W3NKD; Elia, W3RZU, and some others. No hear on nets.

OK, boys, how about a line to let us know.

We are known as "The Club With A Heart", not only with our members but with other clubs. OK, let us share your happiness along with your sorrows.

If work, or business, is keeping you off the air, let us know. You can contact "Mother Rat", or any of the Officers or Directors. You know who they are, as they are listed in "Cheese Bits" each month.

DEADLINE FOR ARTICLES

The deadline for articles is the 15th of each month. Most of the time I do receive them on time, and sometimes the meeting night is on the 15th. I would like to say "Thank you" to all who get their articles in before the 15th, which is most all of them. Sometimes the articles are handed to Frankie at the meeting. We try to get "Cheese Bits" in the mail as soon after the meeting as possible. I have been very easy with articles that are late, but now I ask you to count the number of pages that I must type. I spend one week assembling and typing the articles and I save the space for "Highlites" of the meeting for last.

I am sorry to have to say this, but, from now on, any articles received after the 15th WILL NOT appear in the current issue. I have other work to do.

So, how about it boys, get on the ball.

(Editor's Note) We hope that by the time you get to reading this page, that you have already read the first page. If not, go back and read it. We wrote that article on October 10, and on page 17, of the Evening Bulletin of Wednesday, October 18, we found a column entitled, "Backyard Shelters", "Majority Do Not Have Back Yards In Urban Areas, Miss Robb Says".

Her opinions, although expressed in different words, are the same as ours.

We would like to point out here, that the opinions of the editor are her own, and not always those of the club.

We have received K3IUZ's new phone number, and fortunately, the membership list was not yet mimeographed, so we able to add it on the list. Although John's QTH, is Stump Road, Plumsteadville, Pa., his mailing address is as it appears on the list.

We have also learned that Al, K3BEF, has also received his greetings from Uncle Sam. Good Luck, Al, and let us know how you make out.

OCTOBER BIRTHDAYS

Congratulations and Best wishes to; Ed, W3HKZ; Myles, W3ZTL; Frankie, W3SAD; and Doc, K3GAS.

\$ \$ SAUCTION \$ \$ \$

The W.E.N.S. Radio Club will hold an auction on Wednesday, November 8, at A.G. Radio Parts Co Store, 939 Township Line, Elkins Park, Pa., at 8 P.M.

Received a phone call from Jim, W3SMK, last evening, and he is taking off for Phoenix, Arizona, and San Diego, California for his company, this Sun. He just returned, this week, from another trip.

COMMENTS ON SIX & TWO

By SMEL A. RHAT

All too few of us give the old rig a good going over after a summer of inactivity, so don't be surprised to find that the heat and humidity have caused some troubles - not too costly, I hope. It would be wise to also consider a modulation check before proceeding too far. I hear quite a few signals, on six particularly, whose owners seem to think that 100% modulation is putting equal amounts of audio and RF power into the final PA stage.

A reasonably good check on modulation can be made, using only your plate meter, provided that the transmitter is operating correctly into it's rated load, which should be a properly matched antenna or preferably a dummy load.

MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA. ORGANIZED MAY 15, 1956

CLUB MEMORIAL CALL: W3CCX

MEETING PLACE

WEST OAK LANE JEWISH COMMUNITY CENTER
Sedgwick & Thouron Sts., Phila., Pa.

MEETING NIGHT: 3rd WEDNESDAY of EVERY MONTH

MONDAY NITE NETS: 144.2 at 0100; 50.2 at 0200; 221.4 at 0300 GMT

W3AJF, HORACE DEACON, JR., XYL, LUCY
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Phila., 20, Pa.
215-DA.9 -7307

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R.F.D. #1
Smyrna, Delaware
302-DL. 3-9336

K3AUH, ALAN RUBEN
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K3BEF, ALBERT SHANE
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215-WA. 4-6429

K3BGT, HARVEY ROSEN, XYL, VICKIE
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215-HO. 2-1829

K3BHK, JEROME TESSLER, XYL, LEILA
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215-HO. 4-7174

K3BPP, WALTER BOHLMAN (STU. MEM.)
32 Bridge Street,
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215-FI. 8-2167

W3BQU, HOWARD BUERGER, XYL, MARGE
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215-TU. 6-4044
215-CA. 4-1740

K3BRJ, NEWELL (JACK) CHAMBERLIN, XYL,
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215-GE. 8-4860

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215-AL. 7-2450

W3BVR, THEODORE H. LEAF, XYL, MARIE
216 Avon Road,
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215-FL. 2-5548

K3BVZ, BENJAMIN CHALMERS, XYL, SIDNEY
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215-GL. 7-1176

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215-WE. 3-3104

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215-PI. 2-1949

K3CIV, RALPH B. HERSH
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215-TU. 4-0324

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215-WA. 7-1097

W3CKP, WARREN S. PARKER, XYL, MARION
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215-FI. 8-3392

W3CL, HARRY B. STEIN, XYL, SYLVIA
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215-TU. 7-5052

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215-CH. 7-0879

W3CPT, KENNETH HARRISON, XYL, SOPHIE
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215-OS. 5-8462

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215-TU. 6-4109

W3DRC, THOMAS TOMLINSON, XYL, MILLIE
Witmer Road,
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215-MI. 6-5563

K3EHQ, JAMES BARNES, SR., XYL,
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215. VI. 3-7082

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609-WO. 3-7323

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215-TU. 4-3461

K3EMR, AUGUST D. FELIX
32 Township Line
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215-PI. 5-3525

K3EOD, ALLEN BOBLITT
8389 Langdon Street,
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215-PI. 2-3312

K3EPB, HOWARD E. FRETZ, XYL, EMILY
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215-FI. 8-4877

K3ESL, BENJAMIN GINDIN, XYL, EDITH
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215-JE. 3-1849

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215-EL. 7-2960

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215-WA. 4-8913

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7812 New Second Street,
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215-ME. 5-1078

K3GAY, DONALD K. LAUER, XYL, GLORIA
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215-HE. 3-2507

W3GEC, JOSEPH MEHLTRETTER
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215-FI. 2-2267

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215-DE. 2-8655

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215-DE. 3-9359

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215-HI. 6-2755

K3HJA, EARL E. WENK, JR., XYL, BETTY
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215-GL. 5-8959

W3HKZ, E. EDWARD KUSHNER, XYL, LORRIE
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K3HSS, CHARLES F. LUSTICK, XYL, BETTY
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215-FI. 2-4398

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215-ES. 9-3115

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215-OL. 9-2616

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215-TU. 4-4163

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215-DE. 8-2016

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W3LHF, DAVID ZIMMERMAN, XYL, JANE
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215-OS. 5-4539

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215-DE. 3-0811

W3NKD, VICTOR H. LEES, XYL, ANNA MAY
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215-DA. 4-7524

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215-IV. 3-1941

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215-OS. 2-2594

W3VGN, HARVEY COON, XYL, DOT
625 Locust Lane,
Horsham, Pa.
215-OS. 5-3180

W3ZEY, RUSSELL WIDGER, XYL, JOAN
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E. Lansdowne, Pa.
215-MA. 3-4312

W3ZRR, RAYMOND WHITEHEAD, XYL, ELEANOR
4534 N. Smedley Street,
Phila., 40, Pa.
215-DA. 4-5910

W3ZTL, MYLES GRDCE, XYL, DOLORES
6043 N. 21st Street,
Phila., 38, Pa.
215-VI. 3-0116

ADDITIONS

SMEL A. RHAT (cont'd)

When the transmitter is operating properly, bring up the audio gain control until your speech just begins to move the needle of the PA plate current meter. This means that the peaks of your highest amplitude voice frequencies are hitting just a little over 100%. - Back off slightly on the audio control, until an occasional flicker of the meter occurs. You should then have a correctly modulated signal.

Speaking of modulation, the amateur transmitter is supposed to be modulated by the operators voice frequencies and maybe those of his friends but nothing else. The ARRL states that one of the identifying features of an efficient station is the absence of background noise. Now we are all too aware of the budding electronic genius, who somewhere in his travels has seen a BC announcer talking a foot or so from his mike. In his zeal to have his own station duplicate this "professional" look - he purchases the highest gain - no directional microphone available and turns up the amplifier gain so he can stand back several feet for the QSO. It could almost be described as mike fright, except that this guy loves to talk. He has forgotten some important considerations - namely, the BC announcer was no where near any blowers, loud speakers or other noise making devices, such as wifey shouting unprintables at the kids or a model airplane operating 3 blocks away. This operator's modulation usually consists of 50% noise and 50% speech and it is really a pleasure to sign with such a character. Of course there is also the individual who likes to roam around his shack during a QSO, doing odds and ends of various unfinished tasks while at the same time trying to maintain a smooth flow of conversation. - Nothing is so boring as to have to listen to his blowers, TV or record player, to say nothing of his interrupted thoughts. - I always make a mental note not to QSO with him again.

Yours for better modulation,
Smel

HIGHLITES OF OCTOBER 18

MEETING

We were pleased to welcome the following guests; K3NCN, K3BPK, W3YXF, K3BMP, K3QAZ, K3QZB and W3KDB. (next time, Frankie, bring me their handles)

Joe, W2EIF, read the Amendment to the By-Laws regarding Retired Member Status.

Jim, W3KXH, demonstrated his method of teaching the code. Rythem and sound.

W3HKZ, Ed; K3IUU, Bert; W2AXU, Jack and W3GXB acted as the panel to answer all technical questions and many

questions were asked. Oops, I did not give W3GXB's handle, it is Bob.

Don't forget the Code Lessons each Monday, 0300 GMT, at 50.35.

MEETING NOTICES

NOV. 8 BOARD OF DIRECTORS

The Board Of Directors' meeting will be held at the QTH of W3KKN, Ernest Kenas, 2823 Old Welsh Road, Willow Grove, Pa., on Wednesday, Nov. 8, at 0100 GMT.

If for any reason you are unable to attend please call; 215-DL 9-3485

NOV. 15 GENERAL MEETING

The regular meeting of the club will be held at the West Oak Lane Jewish Community Center, Sedgwick & Thouron Streets, on Wednesday, Nov. 15, at 0100 GMT.

Our Speaker will be, W2GQK, Jack Sterner. His topic will be Nuvistors.

"PACK RATS 'CHEESE BITS'"
829 W. FISHERS AVE.
PHILA. 41, PA.

OCT 23 1961

WSKKN Ernest Konas
2983 Old Welsh Rd.
Willow Grove, Pa.

PHILADELPHIA, PA.

