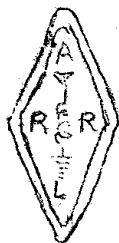


# PACK RATS CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.  
(50.2, 145.2, 221.4, 432.3 & 1296.3 Mc.)

CLUB CALL: W3CCX  
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SAD.  
MEMBER: AMATEUR RADIO NEWS SERVICE

MEMBER CLUB: DELAWARE VALLEY COUNCIL of AMATEUR RADIO CLUBS



MEETING NOTICES: LAST PAGE.

VOLUME IX

NOVEMBER 1966

NUMBER 8

## OUR PREZ SEZ



The October meeting turned out to be a real fine affair. Dave (W3LHF) our program chairman certainly put together a nice program which I enjoyed along with the rest of you who attended.

Don, W3CJU and George W3ELI collaborated to present a lecture and film on the subject of "TIME". It might even be said that it was a very timely subject. We also found out that George is a very photogenic member of the Packrat organization!

The next meeting is going to present a pictorial review of the Pack Rat events of the past year. It is designed particularly to be of interest to the XYL's who may have wondered what you were doing on the weekend in June (QSO Party) or that you really were tramping through the woods looking for a transmitter instead of holed up at the local bar!

Be sure to persuade the good wife to accompany you to the meeting. I am sure that you both will enjoy it and at the same time further the interests of the Pack Rat organization.

This, I remind you again is antenna time - be sure to get that new beam up or get it refurbished by December 1 or you will find that old man cold weather will be too much for you, and the January Contest will suffer for lack of your getting out or receiveing. If you need help get in touch with Alan K3DUW right away. See you at the next meeting.

"PACK RATS' CHEESE BITS" IS A PUBLICATION OF THE MT. AIRY V.H.F. RADIO CLUB, INC., PHILADELPHIA, PA., AND IS PUBLISHED MONTHLY.

10¢ a copy \$1.00 a year

WE OPERATE ON AN EXCHANGE BASIS WITH OTHER PUBLICATIONS, AND ANYTHING THAT IS PRINTED IN "CHEESE BITS", MAY BE REPRINTED, UNLESS SO STATED, AS LONG AS PROPER CREDIT IS GIVEN.

DEADLINE FOR ARTICLES IS THE 20th OF THE MONTH.

ALL INFORMATION SHOULD BE SENT TO THE EDITOR: HELEN BRICK, XYL, W3SAO  
821 W. Lindley Avenue,  
Phila., PA 19141  
215- DA. 4-7524

TRUSTEE OF CLUB CALL: W3CCX  
W3SAO, FRANCIS BRICK  
821 W. Lindley Avenue,  
Phila., PA 19141

PUBLISHER & SUBSCRIPTION MANAGER:  
K3GAS, DOC CUTLER  
7815 New Second Street,  
Phila., PA 19117  
215- ME. 5-1078

AWARDS CHAIRMAN:  
W2EIF, JOSEPH KILGORE  
#5 Sunnybrook Court,  
Stratford, NJ 08084

DIRECTORS MEETINGS are held on the second Wednesday of each month at designated locations at 8:00 P.M.

MONDAY NIGHT NETS:  
145.2 - 7:30 P.M.  
50.2 - 8:30 P.M.  
221.4 - 9:30 P.M.  
432.3 - 10:30 P.M.

CODE PRACTICE:  
7:00 to 7:30 P.M. MONDAY  
thru FRIDAY, 50.2 Mc. by  
W3CL, Harry Stein.

OFFICERS: 1966-1967  
PRESIDENT: W2EIF, JOSEPH KILGORE  
VICE-PRES. W3LHF, DAVID ZIMMERMAN  
COR. SEC.: W3SAO, FRANCIS BRICK  
REC. SEC.: K3WEU, PAUL BEHRMANN  
TREASURER: W3MVF, DAVID BLOCH  
DIRECTORS: W3ELI, GEORGE VAN DYKE, JR.  
K3HSS, CHARLES LUSTICK  
K3JJZ, ELLIOTT WEISMAN  
W3MFY, PRESTON FUNK  
K3CIV, RALPH HERSH  
(EX-OFFICIO)

\*\*\*\*\*

#### EDITOR'S CORNER

First, I wish to apologize for the lateness of this issue. I don't know how many of you know it, but Frankie and I have had a very rough summer. 44 days of traveling back and forth to the Abington Hospital. (July 19-August 31) Since August 31 funeral arrangements and liquidating the estate, which is still in progress. If it were not for the services of W3ISV, Syl Einhorn, we would be going around in circles. Try handling two houses, 14 miles apart, as I have been doing, and see how well you are able to keep up with things.

We have been accused of neglecting people and duty. It seems funny that when these people want something they know our phone number, but when something happens that we should take care of, they can't find it. Our second apology must go to W3ZRR, Ray Whitehead and his family on the passing of his Step-father and Mother-in-law. Also to K3EHQ, Jim Barnes and his family on the passing of his father. I hope you understand and will forgive our seeming lack of sympathy.

My third apology goes to all the members who have had birthdays and I have not mentioned them in recent issues. Just as soon as I am able to get things straightened out the column will be resumed.

My fourth apology goes to W2EIF, Jo, whom I inadvertently labled W3ELF in the last issue. I was not thinking of the Vice-President, W3LHF, as many thought, but my eyes dropped down to the first Director's call, W3ELI. I managed to pick them up in time to get the "F" and right name.

Everyone is a critic, so I, as editor am going to turn critic. Yes, I make mistakes for I am only human the same as every one else. My first critical remarks are made to the colators. Check each side of the pages to be sure they are printed on each side. I have received copies for the files with pages printed on one side only. I'm sure that if I get them others do also. I have also received copies with pages missing, so count the pages in each copy. Make sure that the file copy includes ALL information (pages that are for members only). I am sometimes asked questions which I cannot answer because I do not have a copy of the information.

My second critical remarks are aimed at those sending in articles, with the exception of "Swap & Shoppe". In the first column it reads, "ALL INFORMATION SHOULD BE SENT TO THE EDITOR:" This does not mean sent to Doc, Frankie or anyone else. If you want them printed send them to ME!

My third critical remarks are aimed at those who say I should just print the articles and express no opinions. If I have something to say I am going to say it, if you do not approve, get a new editor.

I am going to be criticized for putting this in print, but this seems to be the only way to get the message across, since all my vocal requests have been ignored.

Amen!

\*\*\*\*\*

#### ARRL BULLETINS

NR 81, OCTOBER 6, 1966

Attention DXers: The annual December listing for the DXCC and the DXCC Honor Roll will not appear in that issue of QST due to unusual workload

and administrative circumstances. This annual list and the Honor Roll will appear in the January issue of QST. In view of this, the deadline for Honor Roll submissions has been extended to October 31. The usual list of New Members in DXCC for the month of September, will appear in the December issue. AR

NR 82, OCTOBER 13, 1966

Uruguay and the U.S. have agreed to permit the handling of messages or other communications on behalf of third parties, effective immediately. Messages must not be important enough to be sent by commercial channels and neither operator may have any pecuniary interest in the traffic. The U.S. has previously signed similar agreements with Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Haiti, Honduras, Israel, Liberia, Mexico, Nicaragua, Panama, Paraguay, Peru and Venezuela. In addition, two stations in Greenland with XP prefixes and 4U1TU at ITU Headquarters, Geneva, may handle such traffic. Third party countries, by prefix, are CE CM CO CP CX EL HC HH HT HK HP HR OA PY TI VE VO XE YN YS YV ZP 4U 4X and 4Z. AR

NR 83, OCTOBER 20, 1966

A reciprocal operating agreement is now effective between Nicaragua 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 United States has previously reached reciprocal agreements with Australia, Belgium, Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, France, Germany, India, Israel, Kuwait, Luxembourg, Paraguay, Peru, Portugal, Sierra Leone and the United Kingdom. Many others are being negotiated and successes will be announced as they occur. AR

NR 84, OCTOBER 27, 1966

Attention DXers. WJGTA/8F4 is now operating from Indonesia with the express authority of the local government. FCC, therefore, will have no objection to United States amateurs working this station within the framework permitted by the Indonesian authorities, not including third party traffic. This permission covers the period October 18 through December 31, 1966. AR

NR 85, NOVEMBER 3, 1966

Effective November 1, thirteen fixed message texts became available for regular amateur use in handling traffic of a military morale nature. These texts carry the designation MTX and have been agreed on jointly by the three MARS chiefs and ARRL. Copies of the list are available from the ARRL Communications Department free upon request. The texts are used exactly as ARL texts except the designation MTX is substituted for ARL. As soon as they can be included in ARRL literature they will be added to our regular ARL list and then may be transmitted as ARL fixed text messages. AR

\*\*\*\*\*

ZIP OR ELSE SAYS U.S. POST OFFICE

From FEARL (M) NEWS

The Post Office says "It's the Law of the Land - effective January 1, 1967."

ZIP codes are the P.O.'s system for identifying, sorting and delivering mail, by use of coding. The P.O.'s ZIP Master Plan is so comprehensive it eventually will vitally effect of U.S. citizens. It isn't a case of whether you like the ZIP system: it is a case of complying with the "law of the Land" if you expect to get your mail without any penalties of delays in delivery or even extra costs. Cuss ZIP if you want; but don't try to ignore it. Unless you abide by ZIP code law, the P.O. makes no bones about it. A good share of your mail is going to wind up, either back in your lap or it will cost you more to have it delivered.

So, contrary to your "druthers", come Jan. 1, 1967 the complete ZIP code regs go into effect and as written, they leave no choice but compliance with ZIP use for all mails.

Another feature of ZIP coding is the adoption by the P.O. of new abbreviations for U.S. States:

|                             |                      |                       |
|-----------------------------|----------------------|-----------------------|
| Alaska.....AK               | Kentucky.....KY      | Oklahoma.....OK       |
| Alabama.....AL              | Louisiana.....LA     | Oregon.....OR         |
| Arizona.....AZ              | Maine.....ME         | Pennsylvania.....PA   |
| Arkansas.....AR             | Maryland.....MD      | Puerto Rico.....PR    |
| California.....CA           | Massachusetts.....MA | Rhode Island.....RI   |
| Canal Zone.....CZ           | Michigan.....MI      | South Carolina.....SC |
| Colorado.....CO             | Minnesota.....MN     | South Dakota.....SD   |
| Connecticut.....CT          | Mississippi.....MS   | Tennessee.....TN      |
| Delaware.....DE             | Missouri.....MO      | Texas.....TX          |
| District of Columbia.....DC | Montana.....MT       | Utah.....UT           |
| Florida.....FL              | Nebraska.....NB      | Vermont.....VT        |

(Next page)

(3)

|                 |                       |                       |
|-----------------|-----------------------|-----------------------|
| Georgia.....GA  | Nevada.....NV         | Virginia.....VA       |
| Guam.....GU     | New Hampshire.....NH  | Virgin Islands.....VI |
| Hawaii.....HI   | New Jersey.....NJ     | Washington.....WA     |
| Idaho.....ID    | New Mexico.....NM     | West Virginia.....WV  |
| Illinois.....IL | New York.....NY       | Wisconsin.....WI      |
| Indiana.....IN  | North Carolina.....NC | Wyoming.....WY        |
| Iowa.....IA     | North Dakota.....ND   |                       |
| Kansas.....KS   | Ohio.....OH           |                       |

(Editor's note: Notice that all abbreviations are capitol letters without any periods. The list also includes the United States possessions.)

\*\*\*\*\*

FCC CLAMPS DOWN ON MOBILES

From W7ID Newsletter, Auto Call and The Virginia Ham

When it rains - it pours, at least where 2 meter mobile operators in the Houston area are concerned. Some months back, the popular K5YQG 2 meter FM repeater was shut down by the FCC for failure to include ID and logging facilities. And just when the repeater was placed back on the air with the proper equipment for automatic ID'ing and taping of incoming signals, the cloud burst upon them.

While one operator was kind enough to offer an FCC Inspector a ride to his parked car, he used the repeater to call another amateur. Upon completion of the call he hung up his mike and continued to drive on. The inspector, (Williams by name) asked, "Where's your log?" The op sheepishly replied that he did not log that frequency. Whereupon two-hundred 2-meter buffs in the Houston area received 365 day log requests from the FCC.

To date, they have received and verified about eight logs. Some attempted to fabricate logs. Most wrote and stated that they simply did not log QSO's through the repeater. Whereupon all received violations and had to "show cause why their licenses should not be revoked."

MORAL: All amateur transmissions must be logged. If from a mobile, only time on and off the air, in addition to stations worked, needs to be logged. But they MUST BE LOGGED.

\*\*\*\*\*

DO "TEEN-AGERS" MAKE GOOD HAMS?

Jay C. Jacobson, WA3CQO

The other day I was engaged in a QSO with a ham who has been active for thirty-nine years. "I've never met," he declared emphatically, "a kid who was a ham and a juvenile delinquent at the same time!" With that statement he signed, and left me with a huge thought: What does amateur radio do to kids -- and what do the kids do to amateur radio?

I began keeping a little notebook of comments about teen hams, and the names of the adults who commented. You may be interested in some of them:

"The main reason I left six meters is because it has become a children's band. Who the heck wants to hear those idiot kids asking each other questions." -- Southern N.J. Extra Class

"I love to listen to the kids on six. It gives me a real thrill, a kick, to be able to occasionally break in and supply some little bit of information that may help..." -- Montgomery County Tech

"CQ, CQ, CQ, no kids, no kids, no maybe's, no babies..." (and this 40-year OT really WON'T answer kids)

"Kids get together on the band and act silly. They give the other hams a bad name!" -- Collegiate ham

"That kid ---- has a signal on 2 meters that's a mile wide, and won't do a thing about it. There ought to be a minimum age of 21 for hams, then all these damn' kids wouldn't be QRMing everybody. What do they do for us, anyhow?" -- Philadelphia ham who just got a "G" ticket

"Kids are great! Kids are fine! You know, I was listening to the ARPSC last weekend, and half the stations active were kids. They work, they're alive, they care! All they need is to be shown!"

"ALL THEY NEED IS TO BE SHOWN." That's the key, the answer. So let's show them.

If you stop and critically analyze the comments, you will find that the presence of these children on the amateur bands acts as a reflective surface in which the personality of the observer is mirrored. It is difficult to be party to the existence of these new and delightful amateurs without choosing

(next page)

One of their many characteristics and magnifying it, whether it is one of their niceties or one of their foibles. Usually the listener makes much of this without realizing he is ascribing to all teen hams the habits of one, or at best, a few.

The length of time one has been a ham has no bearing on his ability to be a warm, vibrant, understanding humanist. The newest licensee, as well as the most seasoned O.T., can be part of the group of people who will make a teen ham the kind of person he would like his own child to be. "ALL THEY NEED IS TO BE SHOWN. . ."

(Editor's note: Thanks, Jay. That has always been my contention. Everyone complains about the kids on six, and instead of helping, they just get off the band. As in everything else, which is repulsive, they just do NOT WANT TO GET INVOLVED.)

\*\*\*\*\*

### PORTABLE TWO or NOT PORTABLE TWO

J B POWER

From time to time there has been some discussion about the proper method of signing during portable or mobile operation. I think it might be a proper time to try to set the record straight and explain the way the F.C.C. would like us, as amateur radio operators, to do it. Since the F.C.C. monitoring stations have been passing out "pink tickets" for improper signing of portable or mobile designations, their suggestions should be taken seriously.

Ninty-nine percent of the stations operating portable or mobile sign their calls in the following manner when on radio telephone:--W3CL this is W2AXU portable 3. This is proper when using CW but improper for phone. Section 97.87 subparagraph (b) states when operating phone "the call sign of the station shall be preceded by the words "this is" or the word "from" followed by an announcement of the geographical location in which the portable or mobile station is being operated." An example is as follows:-- W3CL this is W2AXU operating portable (or mobile) 1 mile east of Newtown, Pa. The call sign area is not given. The important designation in the geographical location. It is also interesting to note that the returning station does not need to use the portable designation of the called station. Example:--W2AXU this is W3CL.

Operating CW from a portable location is another story. The call sign area is given. Example:-- W3CL DE W2AXU ON 3AR using a three by three call. Again the returning station need not reply with the portable designation. Example:-- W2AXU DE W3CL K.

I hope this might be of interest to thoes who operate portable or mobile and will keep them from being cited. It is always of more interest to a listening station to know where the portable or mobile station is than in what call sign area he is in. He can also add the county if he knows it for the county hunters or, in a contest, the ARRL section he is operating from.

All this brings up one little pet peeve. Why are there so many phone operators who will not give their location when calling a CQ? I am sure they're not ashamed of it or trying to hide it. In VHF or UHF operating it is a big help to know where the station is for proper antenna heading. So lets advertise a little bit.

(sig) Jack Power  
W2AXU

\*\*\*\*\*

YOUNG HARRY VS M & H or "I TOLD YOU GUYS I'LD GET EVEN."

K3JJZ

Before I relate Harry's story I must admit that a good percentage of it is fiction. It has to be because he starts off by saying he was only 15 years old. That in itself is fiction. Any one who knows our beloved W3CL must concludeed that by no stretch of the imagination could he have ever possibly been 15 years old.

It seems that Harry was "15" years old and used to window shop in the radio stores. In the window of M&H was a clarostat carbon pile rheostat. Now in these days anybody who was anybody had to have a clarostat carbon pile rheostat. Since Harry wanted to be somebody he decided he had to have that one. It was \$1.85 in that window and every place else it was \$1.00 or \$2.00 more. Harry scurried into the store at last having found the bargain of a lifetime. Harry "I want that clarostat rheostat" Salesman "We don't have any". Harry "You sure do there's one in the window" Salesman "Sorry we don't have any, however we have a Greenblatt 84" Harry "I don't want a Greenblatt 84 I want a clarostat" Salesman "We don't have it" Harry "To bad, take the one out of the window"

Salesman "You don't think I'm going to tear down that window display Harry "Yes you are, when you advertise something to the public you have to sell it"

Salesman "Nothing doing"

Harry "Well I'm going to get the cops"

One word led to another and the next thing you know Harry is thrown out of the store

TIME PASSES

The following Sunday in the want ads our Harry reads "Young man wanted for inside repair of radios"

Reply Box - - -

At first Harry thought he had to crawl inside the radio to repair it but later he got the real message and answered the ad. Boy did he ever answer the ad. You guys know how good Harry is at BS now, can you imagine what that letter was like?

Time passes & Harry gets a letter in the mail. From whom? You guessed it M&H. Please come for an interview 10 am the next morning. So Harry shined his shoes, plastered down his hair (he had some in those days) and off he went for his interview. Down to M&H he went and in the front door. The salesman stared in disbelief.

But before the salesman could lay a hand on him Harry said, "Stop, I have official correspondance from Mr Herbach" The salesman let Harry in and then the fun started Mr Herbach was a red faced individual anyway but when he saw Harry he got twice as red. He looked like a turkey buzzard

Harry "But you sent me a letter"

Mr Herbach looked at the letter

By this time he not only was as red as a turkey buzzard but his eyes had popped and resembled those of a bullfrog. As a matter of fact so did the noises he made. But Harry got the message and left without the job

TIME PASSES.- Much time passe 10 or 12 yrs Harry is working at RCA as a Lab Technician when his boss asks him how he would like to go to H&R (formerly M&H) to do some assembly work. Harry went, there was a shortage of electronic technicians and Mr Herbach hired our hero. Harry & Mr Herbach became the best of friends.

Of course none of this could have happen if W3CL would have bought the Greenblatt 84

\*\*\*\*\*

"LITTLE BLACK BOX"

By Max P. Vander Horck, WAGHUW

From November "QST"

A little black box of jewels and rocks,  
with lanterns that flicker and glow,

Reporting the doings, the comings  
and goings of brothers wherever  
they are.

Makes lighter the gloom in my little  
back room, where often I hasten to  
go.

A curious band, spread over the  
land, yet joined from equator to  
poles,

An anthem it peals of whistles and  
squeals and voices so ghostly  
and queer

Disperses the gloom of each little  
back room by this magic communion  
of souls.

That you'd never deny, should you  
chance to pass by, what a brother-  
hood foregathers here!

I could part with a lot of things  
that I've got, but I'll carry  
my love to the tomb

Each separate tone has a soul of its  
own; each voice is the voice of  
a friend,

Of that little black box and the  
the joys it unlocks when I enter  
that little back room!

United through space in this gathering  
place at the radiant rainbow's  
end.

Reverberant sounds ride the wave  
that rebounds like the waves of  
the sea, from afar,

\*\*\*\*\*

The first American ever to receive the COLUMBUS GOLD MEDAL for HUMANITARIAN WORK was presented to W6MLZ, Ray Meyers of San Gabriel, California, on Columbus Day by Guiseppe Saragan, President of the Republic of Italia (Italy to us) during the 14th Plenary Assembly of the International Institute for his work with handicapped hams. Ray is an ex-W3. This is just one of the many honors bestowed on Ray.

By Bob Elmer, K3ZPQ

The Old Timer was slowly tuning over the two meter band when he came upon a familiar voice. It was the Young Squirt, talking about his S.W.R. He paused to listen.

---"Yeah, Joe, I finally got that eight element beam up. My S.W.R. is high and I'm worried about it. It reads about 2 to 1 and I can't seem to get it down. I tried different ways of tuning up the transmitter but 2 to 1 is the lowest I can get. I'm using some new RG58/U cable --- 100 feet of it. Do you know what I can do to get a better S.W.R.? What say, Joe. WA3--- to WB2---".

"Hello WA3---, this is WB2--- Willie, you're an S9 on my meter even with that high S.W.R. When you get it down to about 1 to 1 you ought to be 10 or 20 over at least. I had the same trouble with my S.W.R. on two meters but the fellow at the store told me that the length of the line was important so I kept cutting off a little at a time until I got the lowest reading. That RG58/U cable is OK. I have about 100 feet of it going up to my 220 beam and it works fine. A fellow in our club gave a talk on antennas one night and said that at every half wave-length along the line the impedance would be the same as the impedance where it was connected to the antenna system. I just measured it off in half wave-lengths and cut it at the right place. I thought I had made a mistake in the balun measurements but I guess I didn't because I get a S.W.R. of 1.1 to 1. What do you think of that, Willie? WB2--- to WA3---".

The Old Timer shuddered and turned off the receiver. "Maybe it would be better for these young squirts if they didn't have any S.W.R. bridges," he muttered to himself. "They just don't seem to understand". He thought back forty years to the 300 MHz transmitter he had built with the first DeForest "H" tube and using Lecher Wires and a ruler to measure the wave-length. This was before the S.W.R. bridge was "invented" and standing waves on open wire lines were checked by a 0-1 M.A. meter and silicon detector with pick-up wires held close to the line.

The Old Timer shook his head as if to clear his mind and picked up his pen and started to write.

"WA3--- Dear Willie", he wrote, "I was eavesdropping on you and your friend Joe tonight talking about your problems with S.W.R. and your new antennas. There seems to be a lot of misunderstanding about this subject and I thought you might like to get a few things straight.

First of all, you shouldn't be too much concerned if your S.W.R. is 2 to 1. If this were 1 to 1 and everything else remained the same the loss in the line would be decreased by less than .5Db and this difference couldn't even be noticed at some distance away. Near-perfect matching is not nearly so important as other factors of the antenna and line system.

Let me say also that you cannot affect the S.W.R. by any tuning of your transmitter or any changing of length of your line. The S.W.R. is determined solely by how good an impedance match you have between the line and the antenna system. This doesn't mean that you can't change the reading on the S.W.R. meter. You can get very erroneous readings on it. More about this a little later on.

Although S.W.R. is generally thought of in terms of relative reflected current, it is really nothing more than the ratio of the impedance of the antenna system to the impedance of the transmission line. A co-axial line of RG 58/U which has a characteristic impedance of 53.5 ohms (regardless of its length) could be connected to an antenna system that presented an impedance of 100 ohms and the S.W.R. would be about 2 to 1, and this would be true regardless of anything you did at the transmitter end. This seems like an awful mis-match but as mentioned before it actually would not be noticeable to a listener.

The advice given your friend Joe at the ham store was good but perhaps misunderstood. Trimming the line for length is done when there is some mis-match at the antenna end and you want to obtain a resonant condition and proper loading. To repeat---this does not effect the S.W.R. Nothing can be done at the transmitter end to change this.

As far as the member of Joe's club saying that at every half wave-length along the line the impedance would be the same as the terminating impedance, I don't think he went quite far enough. In Joe's system the line is very long in terms of wave-length and with the losses in that 58 RG/U cable the line may, in effect, be self-terminating. With such a condition, an S.W.R. bridge at the transmitter would probably read pretty much the same if the line were shorted at the antenna end or even if the antenna were disconnected from the line altogether.

(Next page)

You should use your S.W.R. bridge at the antenna end to properly adjust the match before raising your antenna. (It is indispensable here). At the station end--forget it--use the meter for relative forward gain.

But what I was trying to lead up to is this. Instead of worrying about S.W.R., be concerned about the power loss in the transmission line. RG 58/U cable has a loss of about 8 Db at 144 MHz and a loss of approximately 10 Db at 220 MHz. This means that in your particular system you are losing 83% of your power in the line and Joe is losing 90% of his power in his 220 MHz line.

Consider the low loss quality of the open-wire line. The attenuation loss is almost negligible for the lengths you use, being around .21Db at 144 MHz and .25 Db at 220 MHz. This means that if you fellows would replace that RG 58/U with a carefully installed open line you would get about six times the power in your antenna and Joe would have ten times what he has now. You can check the Radio Amateur's Handbook on this data.

What strikes me as being most horrible is that although transmitter power loss can be made up to some extent by increasing power, you will never recover the received signal that is lost in the cable.

The Old Timer put down his pen and wondered how he had ever gotten so wound up. Maybe it was because he had to get certain things off his chest about that old S.W.R.

\*\*\*\*\*

MICROPHONE INFORMATION (THE BANQUET "GOODIES")

From September "Harmonics" SJRA

The mike is a variable reluctance microphone, having the following characteristics:

|                    |                 |
|--------------------|-----------------|
| Frequency response | 80 - 10,000 cps |
| Impedance          | 4000 ohms @1kc  |
| Output level       | -58.5 db        |

With the lower than usual impedance and output level normally encountered by hams, it is suggested that a transformer match, or possibly a transistorized stage be employed when using the mike....hope to have a possible circuit for this in Harmonics soon.

Note: If the circuit is published I will clip it. However, it appears the mike works fine as is.

W2AXU, Jack Power

\*\*\*\*\*

COMING EVENTS

NOVEMBER MEETING: LADIES' VISITATION. PACK RAT ACTIVITY FILMS.

DECEMBER MEETING: CONTEST WARM-UP. (CLOSED TO VISITORS)

JANUARY MEETING: CRYING TOWEL SESSION

FEBRUARY MEETING: W3OZP, BILL MILLER RELATES HIS RECENT TRIP TO EUROPE

MARCH MEETING: K3IUV, BERT SOLTOFF. TOPIC TO BE ANNOUNCED

LADIES' NIGHT: APRIL 15, 1967. RESERVE THE DATE NOW!

AUGUST: SECOND SUNDAY, PACK RATS' FAMILY DAY AND PICNIC

AUGUST MEETING: WHITE ELEPHANT SALE

\*\*\*\*\*

DID YOU KNOW

That the Senate is going to investigate the life span of the electric light bulb? Seems they do not last long enough. Remember, I complained about that about a year ago in "Passing Thoughts"?

That W3ZRR, Ray lost his step-father and that Eleanor, his XYL, lost her mother this summer? Our heartfelt sympathy to them.

That K3EHQ, Jim, lost his father recently. Our heartfelt sympathy to Jim and his family.

The sympathy is belated, to be sure, but is nevertheless: sincere.

That K3GAS, Doc, is limping around on a bum knee? Hope it gets better soon.

That W3SAD, Frankie, after being away from the nets for five weeks taking a Red Cross First Aid Course, found his receiver not receiving when he was able to get back on?

That K3DLS, Carl, also took the same course, along with Mother Rat?

That we wish a speedy recovery to any members who are sick, or recovering from illness or hospital stays, also any member of their family?



SWAP & SHOPPE

Conducted by W3ZRR, Ray Whitehead  
4534 N. Smedley Street,  
Phila., PA 19140  
215- DA. 4-5910

FOR SALE: Barry Rig Power supply, no  
modulator R48 \$60.00  
220 Mc. beam \$10.00  
Heath DX-35 transmitter  
10 to 80 meters \$25.00

CONTACT: K30XE, Jim Walsh  
4300 Ashburner Street,  
Phila., Pa.  
215- MA. 4-2750

A correction on the "Amateur Radio  
station" in last month's issue.  
Call is W2AEW and the town is Glen-  
dora, NJ 08029

PLEASE send all Swap & Shoppe articles  
to W3ZRR, Ray, and not to me, or give  
them to Frankie on the air.

\*\*\*\*\*

Are you soliciting any members for  
"HAM QUEST 67?" If not, why not?

\*\*\*\*\*

MEETING DATES

DIRECTORS'

NOVEMBER 9

GENERAL

NOVEMBER 16

\*\*\*\*\*

GENERAL MEETINGS are held on the third  
Wednesday, when possible, at the West  
Oak Lane Jewish Community Center,  
Sedgwick & Thouron Streets, Mt. Airy,  
Phila., Pa. at 8:00 P.M.

\*\*\*\*\*

MEETING NOTICES

NOVEMBER 16 GENERAL MEETING will be  
held at the West Oak Lane  
Jewish Community Center  
at 8:00 P.M.  
Ladies' Visitation Night  
Films of Pack Rats' Ac-  
tivities.

DECEMBER 7 PHILA. COUNTY AREC meeting  
will be held at the Fox  
Chase School, Rhawn St. &  
Ridgeway St. at 8:00 P.M.

\*\*\*\*\*

NEW MEMBERS

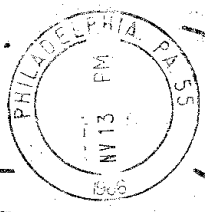
W3ISV, SYLVAN (SYL) EINHORN, XYL, OOT  
208 Gribbel Road,  
Wyncote, PA  
215- TU. 7-3015

K3WBJ, BRUCE COOPER  
Change from Student Member to Full  
Member.

RETIRED MEMBER

K3NMM, Len.

BACK RATS CHEESE BIRD  
681 W. Lindley Ave.  
Phila., Pa. 19141



W3KKN, Ernest Kenas  
2823 Old Welsh Rd.  
Willow Grove, Pa. 19090

**MEETING NOTICE**