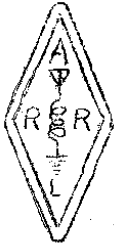


# PACK RATS' CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.

(50.2, 145.2, 221.4, 432.3, & 1296.4 MC.)

CLUB CALL: W3CCX

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SAQ

MEMBER CLUB: DELAWARE VALLEY COUNCIL of AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE



VOLUME VIII

JULY 1965

NUMBER 4

## OUR PREZ SEZ



I would like to thank the membership for your confidence in re-electing me your president. It shows that our efforts were not in vain and that you appreciated them. More good things are on their way for the coming year. Shack pictures are a reality and will be finished by next summer. This is a tremendous job and requires the co-operation of all. Grandpop Bill has come up with the best idea for a lapel pin and will be awarded a cash prize. The pins are in the making and will be an excellent way of identification when you are in your "civilian" clothes.

I would like to comment on the June QSO Party held on June 12 & 13. The Group pitched in and had the choice set-up. Our Rats did an excellent job. It would be hard to single out any one individual for his efforts; everyone pitched-in.

Our next meeting will be at the QTH of W3JSD. I ask everyone to treat John's home and grounds as if they were your own. Don't throw trash on the ground. There will be plenty of refuse containers about and John should not have to police the grounds. The same holds true for next month's meeting at the QTH of W3LHF, Dave.

Don't forget that Sam's schematics are available for some of the older equipment. Contact me.

73, K3GAS, Doc

(1)

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

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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: 20th of the month.

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

PUBLISHER & SUBSCRIPTION MANAGER:  
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Phila., Pa. 19117  
215- ME. 5-1078

TRUSTEE OF CLUB CALL: W3CCX  
W3SAO, FRANCIS BRICK  
821 W. Lindley Avenue,  
Phila., Pa. 19141  
215- DA. 4-7524

AWARDS CHAIRMAN:  
W2EIF, JOSEPH KILGORE  
#5 Sunnybrook Court,  
Stratford, N.J. 08084

DIRECTORS' MEETINGS are held on the first Wednesday of each month at designated locations.

MONDAY NITE NETS:

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

OFFICERS: 1965-1966

PRESIDENT: K3GAS, DOC CUTLER  
VICE-PRES: W2EIF, JOSEPH KILGORE  
COR. SEC.: W3SAO, FRANCIS BRICK  
REC. SEC.: K3OBY, JAMES BOWMAN  
TREASURER: W3MVF, DAVID BLOCH

DIRECTORS: W3LHF, DAVID ZIMMERMAN  
W2AXU, JOHN POWER  
W3ELI, GEORGE VAN DYKE, JR.  
K3HSS, CHARLES LUSTICK  
K3CIV, RALPH HERSH  
(EX-OFFICIO)

\*\*\*\*\*

#### JULY BIRTHDAYS

K3KUB, Walt; K3ZPR, Bob; WA2CDP, Lou;  
W3IXL, Ellis; W3MVF, Dave; K3UJD,  
Mario; K3LUY, Mike; K3GQJ, Jack and  
K3WKG, Don.

Congratulations, and may God grant you life to enjoy many more.

\*\*\*\*\*

#### PHILA. CO. ARES

REGULAR MEETINGS, first Wednesday of each month, 8:00 P.M.

PLANNING MEETINGS, last Wednesday of each month, 8:00 P.M., QTH, W3ELI.

REGULAR MEETINGS: 7th Police District, 9700 Bustleton Avenue, month of July.

During the month of July, W3ELI, will act as Red Cross Disaster Chairman,

Central Phila. Branch, and K3DXD, M21, will be radio contact, while K3WED, Paul, is on vacation.

\*\*\*\*\*

#### ELECTION RESULTS

PRESIDENT: K3GAS, DOC CUTLER  
VICE-PRES: W2EIF, JOSEPH KILGORE  
COR. SEC.: W3SAO, FRANCIS BRICK  
REC. SEC.: K3OBY, JAMES BOWMAN  
TREASURER: W3MVF, DAVID BLOCH  
DIRECTORS: W3ELI, GEORGE VAN DYKE, JR.  
K3HSS, CHARLES LUSTICK

\*\*\*\*\*

#### ARRL BULLETINS

NR 11, JUNE 17, 1965

A reciprocal operating agreement is now in effect between the United States and Portugal. Amateurs of one country visiting or residing in the other may obtain permission to operate their own stations there. The United States has previously reached such agreements with Bolivia, Canada, Costa Rica, the Dominican Republic and Ecuador. Many others are being negotiated and successes will be announced as they occur. AR.

NR 12, JUNE 24, 1965

At a Commerce Committee hearing this week on Senate Bill 1015, the League's General Counsel Booth spoke in favor of the bill, which would increase FCC control over incidental and restricted radiation devices such as wireless intercoms, diathermy, TV receivers, etc. While the FCC can take action in some cases now, the legislation proposes FCC regulation of the manufacturers of devices which can cause radio interference. ARRL suggested that the bill should be broadened to cover power lines, motors and similar devices capable of wide band noise and also suggested that the bill should adequately cover noise and unwanted signal rejection of radio and TV receivers offered to the public. Further information will appear in August QST. AR

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#### DID YOU KNOW

That on Friday evening, June 25, the youngest Harmonic of W3IBH, Chas, was "mugged" on Germantown Ave., Mt. Airy? Norman was hit on the head and stabbed in the chest with an automobile antenna by a group of boys. At this writing it is not known whether or not his heart or a lung was penetrated. He is 18 and is in the Germantown Hospital, Penn St. and Chew Ave., Phila., Pa. 19144.

Drop him a card. God Bless and sustain you, Norman.

That Mother Rat had a visitor on June 5? W6MLZ, Ray Meyers, ex-W3AJZ. He is known to some of our old timers and he passes along his best regards to them.

That someone forgot to stop and pick-up W3IBH for the last meeting? He is at home and is progressing slowly.

STATE of the "UNION" MESSAGE

By K3GAS, Doc Cutler

1964 - 1965 ACTIVITIES

A word of thanks to the outgoing Officers and Directors and a word of "Welcome to the new ones. The Pack Rats are unique in that they have always had a co-operative and congenial group of Officers and Directors. This is one reason for our success as a club.

Some of the activities that helped make this past year a good one are;

July - Decision made to run "Cheese Bites" as a Club effort

A portable Public Address System was purchased

The club disposed of some radio gear for a ham's widow and sent her the cash.

August - A group of Rats attended the ARRL Convention in New York

The Picnic was very successful with a record crowd.

October - 17 members attended the Syracuse VHF Round-up

18 surplus rigs were purchased to be converted to 432 mc.

Mt. Airy took a very active part in UN Week at Gimbels

Quality Control Committee formed to help and improve club members standards

Banner meeting with W1HDR, Ed Tilton, VHF editor QST; W3YA, Gil

Crossley, Director Atlantic Division and W3ZRQ, Al Breiner, SCM, E. Pa.

Death of W3AYG, John Harris, shocks all

September - Negotiations were started which resulted in Pennsylvania

supplying Hams with free QSL cards

K3HWZ started a game called "what's in the box", results were beneficial to the club financially

November - Mt. Airy became strong partner in the Delaware Valley Council

of Amateur Radio Clubs

December - Mother Rat instrumental in Proclamation of Amateur Radio Week

and first sale of Commemorative Stamps to Mt. Airy

Pre-contest plans and strategy

January - Highest points per man indicated another contest victory

Club disposed of Equipment of W3AYG and sent cash to widow

February - Net times were moved up one half hour

Plans discussed for club moon-bounce project

April - Record crowd shows up for Annual Ladies' Nite

Home brew night brought out some interesting gadgets

May - Incentive licensing "provoked" lots of comment. Possibility of our own program

June - QSO Party very successful at Hilltown, Pa.

Election brings predicted results

New lapel pin finalized

\*\*\*\*\*

JUNE QSO PARTY

By W2EIF, Joseph Kilgore

June 11, 12 and 13 at Hilltown, Pa.

Friday evening - W3LHF, K3UJD and W3EIF appeared with the 2 meter, 432 and 220 antennas, masts and gear. There was able assistance by K3ZPN, K3GQJ, (who installed phones) W3CXU, K3HSS, K3IGX, K3GAS, W3SAD, W3CL, K3DUW and numerous others with willing hands.

The antennas for 2, 220 and 432 were up by midnight and shortly after, on Saturday, A.M., all equipment was ready to go with 32 elements on 432 and 220 and 28 elements on 2 meters. The 432 equipment was Bert's, K3LUV, with 5894 in the final; the 220 equipment was Jo's, W2EIF, with 4X150 in final running 120 watts input. Receivers, in both cases, were converters into BC-348 receivers.

The 2 meter gear was Dave's, W3LHF. The xmitter with a 5894 in the final running 90 watts input. The receiver was a converter to a 75A1 receiver with sideband slicer for SSB.

Unfortunately, a death in the family of our 6 meter chairman left us without 6 meter equipment. This was quickly remedied by the excellent co-operation of all, especially K3ZPN, W3MXU, W3OHY, K3GAS and K3LUV who rushed equipment to the scene. Needless to say, the substitute equipment gave us some troubles but, the group, including operators K3IGX, K3DUW, K3ZPN, K3GAS, K3LUV, K3PXT, and K3DLS are to be commended for their 319 contacts and 17 sections obtained under such trying circumstances. (Most of the time they were operating in a

30 mile gale at what I conservatively estimate as only slightly above 40° F) The 6 meter gear ranged from a Lafayette HE45 to a Zeus. The receiver was a Clegg Interceptor.

All antenna were up approximately 50 feet.

Conditions on the bands were only average, and, except for a short period Saturday evening, conditions were normal. A short opening was noticed on Sunday evening to the Bahamas and Eastern Florida.

The 432 Mc set-up, headed by Mario, K3UJD, was operated by K3UJD, W3CL, K3IUV, K3DLS, W3CXU and by W3LHF 36 times. CW was used to advantage to gain some of the sections. The operation was improved over last year with just about double the contacts and sections.

The 220 Mc set-up, headed by Jo, W2EIF, was operated by W2EIF, W3CXU, K3DUU, and K3GQJ. This set-up also improved over last year, with about 20% increase in contacts and 2 additional sections. Del. and Va., two of the closest sections were not heard on during the contest.

The 2 meter set-up, headed by Dave, W3LHF, used a new 28 element beam which combined with Dave's excellent gear, really showed what 2 meters can do. 251 contacts and 16 sections on a "dead band" is surely a good score and way above last year. The operators were W3LHF, W3SAD, W3CXU, K3GQJ, K3ZPN, K3DLS, K3PXT and others filling in from time to time.

The 6 meter gang had the roughest time of all in trying to get equipment going on time, suffering breakdowns, substituting equipment, cold weather. It was not until W3MXW and W3OHY brought Tom's Zeus to the location that the gang began to roll. The operators were, in the main, K3DUU, K3ZPN, K3GAS, K3IGX, K3DLS, W2EIF, K3LWY and others who may have contributed, but I was too busy at other things to note all of them.

The scores can be summarized as follows;

6 meters	309 contacts	(309 points	17 sections)
2 meters	251 contacts	(251 points	16 sections)
220 mc.	41 contacts	(82 points	12 sections)
432 mc.	21 contacts	(42 points	7 sections)
		<u>684</u>	<u>52</u>

Total Score; 684 points x 52 = 35,568

The score is not quite up to last year. I am sure it would have been, except for the troubles and difficulties encountered on 6 meters.

Possibly I haven't mentioned everyone that contributed - but in the rush it is easy to overlook some. I wish to thank all who contributed their time and effort so generously to make this QSO Party an outstanding success. I am sure that all who were there, including me, had a good time in spite of loss of sleep, cold weather, etc.

Jo, W2EIF

Chairman, June QSO Party

\*\*\*\*\*

P.S. Some interesting observations at the QSO Party

K3IGX; huddled in blanket operating 6 meter rig  
W3CXU; playing with his new toy - (2 meter rig)  
K3GQJ; hanging on a pole with linesman's spurs  
K3DUU; running a 1/4 mile, 6 meters to 220, to make a W. Pa. contact on 220  
K3UJD; --IN PINK SHORTS (no less!)  
W3LHF; "I told you so!"  
W2EIF; KEY CLICK REPORT - 'twas only his teeth chattering  
W2EIF; sitting in ZPN's Volkswagon shivering and accused of running th motor  
K3HSS; supervising the 432 antenna raising  
K3ZPN; (all 280 pounds) holding down the hinge point on the towers  
W3SAD; Swaying in the breeze on a guy wire  
K3GAS; Worrying  
W3CL; Muttering to himself - "O!?" - "(( ))?\_

\*\*\*\*\*

#### NEW PRODUCTS OF INTEREST TO HAMS

By W3NSI, Lyn Rowland, Jr.

##### 1. Slider Switches

Manual or spring return slider switches are now available from the Grigsby Co. These are all double throw contact type and are just what home constructionists need for trans/rec switching. Up to 12 poles on one side can be supplied. Contacts are rated at 3.5 amps 6V, and .5 amp at 125V. Price - 40-60 cents each.

Grigsby Co.  
920 Rathbone Ave.,  
Aurora, Illinois

(next page)

2. Parker Meter

Parker Instrument has introduced a rectangular style meter in 2½ - 3½ and 4½ sizes. The Parker units are only ½" thick and mount with two holes in the panel, through which pass the meter studs. In this fashion, the entire meter body is outside the panel. The unit is said to withstand 10,000% overloads and 240 G shocks.

Prices start at about \$12.00 per unit

Parker Instrument Corp.  
200 Harvard Avenue,  
Stamford, Conn.

3. Millan Dial

The type 10037 slide rule dial unit has a 11:1 reduction ratio and a scale length of 5½". Positive pointer travel and resetability due to the use of a molded gear driven rack which cannot slip or wobble. The output shaft has 180° rotation with a ¼" shaft. Provision is made for illumination and zero set.

Prices not yet available but expected to be about \$12.00

James Millan Co.  
150 Exchange Street,  
Malden, Mass. 02148

\*\*\*\*\*

K. U. I.

(Name withheld)

By W3HKZ, Ed Kushner

SUBLIMINAL MODULATION

Subliminal is an expression used to describe a communication or stimulus to the mind that is below the threshold of consciousness. In other words, the message gets through without perception. The so-called subconscious part of the mind which receives the stimulus will eventually convey to the conscious mind the received information either in the form of thought impulses or actions inspired by the subliminal stimulations.

Somewhat similar to the field of hypnosis as used in modern medicine, the subliminal methods of reaching the inner mind do not require the state of trance as does the hypnotist. In the field we are now exploring, the conscious mind is completely bypassed.

We are deeply indebted to a ham for his accidental discoveries made while working on another secret development (VHF Converter). Just before leaving for the sanatorium, his discovery of the subconscious awareness to supersonic tones literally electrified hamdom.

History will some day record his contribution. Fortunately, a great many of his observations were left in the form of memos and schematics that enabled us to carry on his work after they came and got him.

It is a well established fact that human awareness to sound seldom permits perception of tones above 50 kc. The cutoff point, as well as the response curve, varies among individuals to a certain extent. It can now be shown, however, that a narrow band of frequencies between 15 kc and 16 kc will actually reach the subconscious mind by direct radiation rather than through the normal route of the ears.

The subliminal hearing phenomenon that was discovered needed only the right type of signal in order to be used. Needless to say, it is beyond the scope of this article to detail methods used in refining and developing the original discovery. (Full details will be released at a future date upon receiving clearance from the medical and psychiatric people). Due to certain nonlinearities in the transmission path, a form of detection takes place as the subliminal supersonic wave passes through the subconscious.

Theory has taught us that information can be transmitted on a carrier by varying any of the parameters on the sinusoid in accordance with the modulating voltage. In the case of AM, the peak amplitude is varied. The instantaneous phase angle of the sinusoid can also be varied as a means of conveying information. It was found that in some cases the subconscious received AM better than FM, and in others the reverse was true.

In order to be fully compatible, it was decided to develop a carrier that was both AM and FM at the same time. FM, of course, is another way of referring to the angle method of modulation.

It is noted that at 100% modulation on peaks, there is much of the time that the modulation is much less. Although many hams try their best by using clippers to maintain 100% modulation all the time, the nature of speech forces intonations that are less than 100% modulation peaks. It is the utilization of these unused portions of the carrier capability that makes the system successful.

The double AM subliminal carrier fills out the regular carrier to the full 100% at all times. Of course, since the subliminal carrier is supersonic above range of hearing, no one will hear it, but then subliminally?

## READING THE MAIL

Please be advised that we expect to be in Huntingdon Valley, North of Phila. during the week of August 7-8, and perhaps the following week. Mobile; Lafayette HE45B, 3 ring Halo on roof or Whip as usual here.

Yours Truly,  
K3LWT, Rev. Earl Trimbath, D.D.  
Wilkesburg, Pa.

(Keep an ear cocked for his signals, and perhaps a possible "eyeball" QSO. His phonetics for his call are "Little White Termites")

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### ADDITIONAL WIAW CODE PRACTICE AT 20-25- WPM ANNOUNCED

FCC's Docket No. 15028 proposals, besides precipitating comments to FCC and ARRL Directors, brought immediate requests to the Communications Department for even more code practice than the generous daily fare WIAW has been providing.

Effective at once we're undertaking to send four extra-mid-evening periods each week (to follow usual slower-speed nights) to give additional practice at 20-25- w.p.m. Mention of this is also planned for August QST. All practice is transmitted simultaneously, addressed to amateurs on 1805-, 3555-, 7080-, 14,100 kc. also 50.2 and 145.6 Mc.

There are two daily periods set aside for the tape-sent transmission of code practice, these at 2330-to-0059 GMT and 0130-to-0230 GMT, our mid-evening in Connecticut. The first or earlier hour code practice covers those speed ranges most needed to get within reach of the General Class Amateur License (10-13-15 w.p.m.) All practice groups will continue to include letter-numeral groups taken from the tube tables of the '65 Radio Amateur's Handbook.

The mid-evening sessions, scheduled to start daily at 0130 GMT covers both Novice/Technician speed ranges and this newly requested 20- and 25- w.p.m. practice for the many getting ready for FCC's Amateur Extra Class examinations, if and when the Docket is finalized and assuming the requirements stick with the proposal, of course. (Informal advices from good authority have indicated that the number of amateurs turning up at FCC exam points for this test in April exceeded the number taking such exams for 3-months just previous!)

The 0130-0230 GMT CP sessions cover the following consecutively sent ranges:

<u>DAYS of WEEK (GMT)</u>				<u>W.P.M. SPEEDS</u>					
Mon.	Wed.	Fri.	Sun.	5	7	10	13	20	25
Tues.	Thurs.	Saturday		15	20	25	30	35	

De "C D Bulletin" ARRL

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### "CANTENNA" MODIFICATION

My Heathkit "Cantenna" seems subject to oil creepage around the lid, in addition to looking messy it collects dirt.

To fix it-cut the top 1½ inches from a 3-pound coffee can. Use the type with the plastic lid. Press this top portion of the coffee can into the grooves of the "cantenna" lid. Connect an angle coax fitting pointing upward. Replace the plastic lid when not in use. Or cut a hole in the plastic lid to pass the coax and use with the plastic lid.

The "cantenna" will be neat and clean.

WZPHW  
De Ham Hum, Ak-Sar-Ben Radio Club.  
Editor: WZYV, Dick Eilers

\*\*\*\*\*

### DEFINITIONS

Antenna: a bird roost faced the opposite way you want to transmit.

Bargain: something cheap you buy at surplus, without any plan for its use.

Capacitor: a small gimmy-gadget with rows of dots you don't know which way to read.

Diode: a thing you got one of, and have put it in the circuit backwards.

Efficiency: what you don't have if it takes a KW to talk across town.

Friend: anyone who will climb your tower in the winter while you direct him from the ground.

Ground: the thing you are when you touch B plus

House: a device for holding up the tower.

I: little used term for we.

Jack: different from any plugs you have.

Kilowatt: an electronically heated basement.

Loop: a slack thing on your tower that's too short to allow a beam to turn.

Mountain: what your neighbors make out of molehills when TVI'd.

No: a word used by wife when told you are putting rig in front seat.

Ohm: ancient law giver that makes volts and amps work out together.

(next page)

SWAP & SHOPPE.

Conducted by: W3ZRR, Raymond Whitehead  
4534 N. Smedley Street,  
Phila., Pa. 19140  
215- DA. 4-5910

FOR SALE: Johnson Viking 6 & 2 VFO

CONTACT: WA3CPL, Wyne Hupullo  
5702 N. Marshall Street,  
Phila., Pa. 19120  
215- LI. 9-2278

FOR SALE: GE Square Wave Generator  
5 CPS to 125 Kc. \$25.00  
Hewlett Packard Noise and  
distortion analyzer. Model  
325-B \$25.00

CONTACT: K3ZPN, Lloyd Schoenig  
Red Lion Road, Box 6001  
Phila., Pa. 19114  
215- NE. 7-4163

\*\*\*\*\*

DEFINITIONS (cont'd)

Power: what the other fellow says he  
has more of.

QSO: a long conversation consisting  
of one party saying something  
(anything) and the other party  
saying the same thing back, but  
with the additional words, "fine  
business on your...."

Rheostat: an obsolete pot, or one with  
one lug busted off.

Static: those signals heard when a hot  
rod parks out front with the  
engine on.

Tower: a huge device for letting the  
neighbors know where their TVI  
comes from.

Untuned: where your final is when you  
want to grab a quick QSO.

Volt: about 9 in a 12-volt battery  
after running mobile parked.

Watt: a thing that causes your electric  
meter to spin very fast when on  
the air.

Xmtr: a large collection of parts  
which enables you to make 1  
friend in California and lose  
14 in the neighborhood.

Zap: what you did to the \$10 Transis-  
tor.

De; Bandsread, Cedar Valley ARC  
Editor: W1IKD, R.D. Noyer, and  
Amateur Radio News Service Bulletin  
Editor: W3ZXU, Gene Pressler

\*\*\*\*\*

A THOUGHT FOR THE DAY:

"The helping-hand is at the end of  
your own arm."

W3AX, Tom Appleby  
in Auto-Call  
Editor: W3NL, Andy  
Anderson.

\*\*\*\*\*

"Your failures won't harm you until  
you start blaming them on the other  
guy"

K3GAS, Doc Cutler

\*\*\*\*\*

A new address for K3KKM, Woody  
81 Chatham, Sherry Cake,  
Conshohocken, Pa. 19409  
215-825-0209

\*\*\*\*\*

SEE YOU AUGUST 8? PACK RATS PICNIC!

MEETING DATES

1965 WEDNESDAYS

JULY 21                   OCT. 20  
AUG. 18                   NOV. 17  
SEPT. 15                   DEC. 15

GENERAL MEETINGS are held, when  
possible, at the WEST OAK LANE JEW-  
ISH COMMUNITY CENTER, SEDGWICK &  
THOURON STREETS, MT. AIRY, PHILA. at  
8:00 P.M.

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MEETING NOTICES

JULY 14   DIRECTORS' MEETING

The Board of Directors'  
meeting will be held at  
the QTH of WA2JNA, Jim  
Teiss, 1247 Lower Ferry  
Road, Trenton, N.J. on  
Wednesday, July 14 at  
8:00 P.M. Please call:  
609-TU. 2-1352 if unable  
to attend.

JULY 21   GENERAL MEETING

The General Meeting will be  
held on Wednesday, July 21  
at the QTH of W3JSD, John  
Houser, 612 Pinney Road,  
Huntingdon Valley, Pa., at  
8:00 P.M. Call: 215-WI. 7-  
0677 for directions.

Slides will be shown.

\*\*\*\*\*

MEMBERSHIP

RESIGNED: W3DJV, Fred Kremer,  
K3VPP, John Kremer  
K3FDH, Larry Halpern

Larry's new address:  
Dr. Lawrence M. Halpern  
Department of Pharmacology  
University of Washington  
School of Medicine  
Seattle, Wash. 98105

DROPPED: K3EMR, Gus Felix

NEW MEMBERS:

K3GQJ, JOHN (JACK) GREENAGE, XYL,  
1245 W. Westmoreland St., JANET  
Phila., Pa. 19140  
215- BA. 3-6040

K3ZVD, JAMES (JIM) POWELL (S)  
1609 Center Road,  
Feasterville, Pa. 19048  
215- EL. 7-2054

K3WBJ, BRUCE C. COOPER (S)  
2173 Papermill Road,  
Huntingdon Valley, Pa. 19006  
215- WI. 7-2216

K3W6K, DONALD (DON) T. COOPER,  
XYL, VIRGINIA  
2173 Papermill Road,  
Huntingdon Valley, Pa. 19006  
215- WI. 7-2216

\*\*\*\*\*

The new Membership Books were handed  
out at the June meeting, if you were  
not present and did not receive one  
in the mail, contact; K3GAS, Doc,  
215- ME. 5-1078.

\*\*\*\*\*

FORT WASHINGTON STATE PARK, AUG. 8!

PACK RATS CHEESE BITS  
821 W. Lindley Ave.  
Phila., Pa. 19141

---

K3BPP, Walter Bohlman  
101 East St.  
Doylestown, Pa.

**MEETING NOTICE**