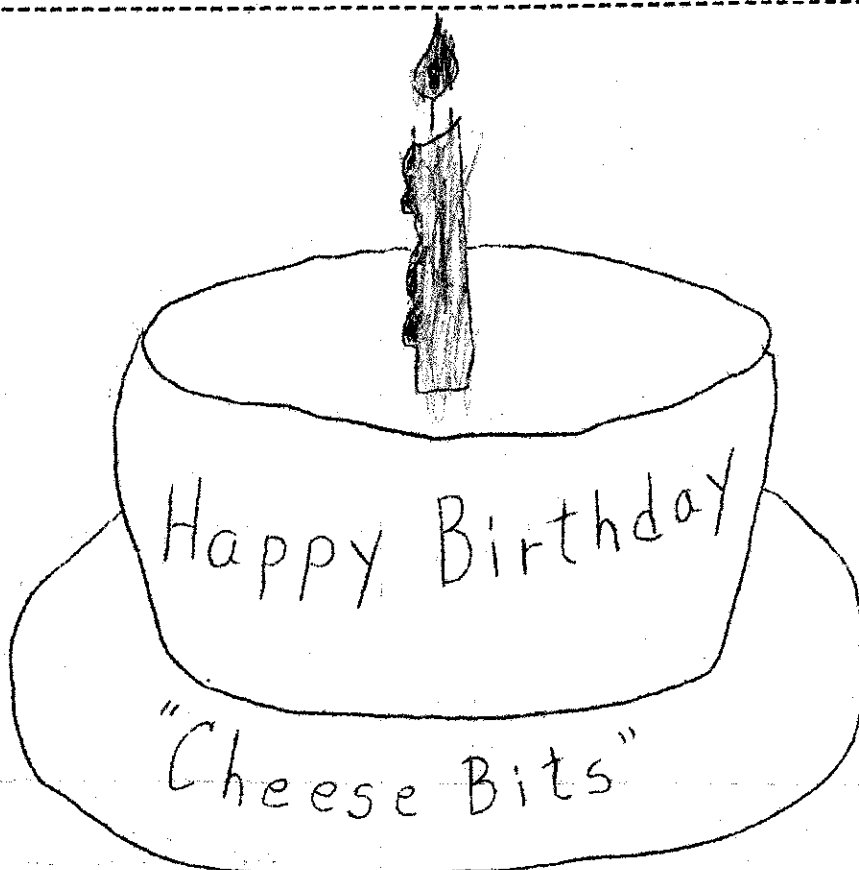


# PACK RATS CHEESE BITS

VOL. II

MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.  
(144.2, 50.2 MCS and 220)  
APRIL 1959

NUMBER 1



Well boys, it was a long hard struggle, but we finally cut our first tooth.  
"CHEESE BITS" is one year old this month.

To refresh the memory of those who received the first copy, and also to acquaint all new comers to the changes made, we will use the drawings and headings used in the first issue. We will also reprint some of the articles from that issue.

Before we do any recapping, we would like to convey our thanks to everyone who has helped to keep the paper in production. First of all we would like to express sincere thanks to K3CIV, Ralph, for purchasing for the club the mimeograph machine and other supplies, and refusing to accept the full purchase price from the club. We would also like to thank Holy Trinity-Bethlehem Presbyterian Church for the loan of the mimeoscope and address-o-graph machine, (which at some later date we would like to purchase from them.) Our thanks also go to W2SPV, Ed Kephart, for the donation of paper to help us get started. Ed also prints the "PACK RATS" QSL cards for the club. We would like, also, to thank all members for purchasing chances on the gift certificates each month. This money, along with the \$1.00 a year from our friends, for a years supply of the paper, has kept "CHEESE BITS" self sustaining. Only twice, during the year have we had to ask the club for money.

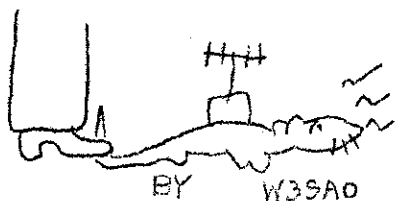
In the beginning we sent out 40 copies to club members, which has now increased to 54. Each month we added a copy for the guest speaker, then we had requests to swap papers with the Anthricite Wireless Association, Tamaque, Pa., "CQ" Chester County, "Six Only", Mobile Sixers and "X-Mitter" Buck's County Amateur Radio Club. A copy is sent to the ARRL and another one to the FCC, to keep them informed about what Mt. Airy is doing. We now send out 66 copies each month.

We have not only cut our first tooth, but have also taken our first step, as non-members are sending in articles and schematics. A special thank you to them.

I myself, as editor would like to say thank you to everybody. You have kept me busy cuttin stencils, drawing schematics, mimeographing, addressing and sorting out papers by zone for mailing, but through your cooperation it has been a pleasure. Whenever I ask for help in running and planning your "HAM FEST" I am never turned down by anyone. That is the greatest compliment I could receive. It proves that all "PACK RATS" and their XYL's work together. I am not a "Ham", but from being around them so long, I know just what their problems are. The reason I am <sup>not</sup> a Ham is that I just don't have the time to study code and theory. I can read it by sight, but not by ear. Being superintendant of a Sunday School Department, Secretary to a Masonic Organization, Deputy Manager of a CD Mass Care Center, Mimeograph Chairman of a Home and School Association, along with doing Reg-O-Graph and mimeograph work for the school, editing "Cheese Bits", handling your "Ham Fest", taking care of a six room house, helping a child with his studies, and keeping a home for my family, you can see that I have no extra time to study code or theory. By the time my child goes to bed, all I want to do is relax. I forgot to tell you that I do have a CD license. Please do not get the wrong impression from the above. I do it because I like it and it does relieve the monotony of just plain housework.

Helen.

RECAPS FROM APRIL 1958



RAT  
SQUEAL

(Compare the above with the new drawing used.)

Congratulations to W3KKN on a new male addition to his family. His name is Michael. Of course he is a little bit different from the rest of the family. He has four legs and a tail.

At this writing, K3CIV, Ralph, is enjoying a warm (?) sunny Florida.

Bon Voage to W3AYG who will be leaving soon for a motor trip down South.

As a result of the severe snow storm, one of our "RATS" lost a dear friend. The dog of W3IBH froze to death. Our condolences to Charlie.

W3SAO has finished his daily trips to the hospital and will resume as net control on 2.

W3JAY gave a talk on "SHOCK" at our March meeting. (The best way I know of to avoid shock is to keep your mitts out of the power supply while it is plugged in. Don't be a dead RAT. I didn't hear his talk because I wasn't there. Helen)

"INCORPORATION"

All preparations are in order and we will soon be incorporated after only two years of the formation of the club.

Silent

(We won't say too much about the above)

We are sorry to announce the passing of W3CCX, Matt Gelardi. He was a good Ham and friend.

SQUEAK FROM PACK RAT #1 W3OXP

(Didn't know about this paper.)

SQUEAK FROM PACK RAT #2 W3FOZ

(Me neither.)

SQUEAK FROM PACK RAT #4 W3CPT

(Ditto #1 & #2) Check your membership card for dues. Keep yourself in good standing in the club.

SQUEAK FROM PACKRAT #3 W3SAO

Suprise to all you rats. I'll tell you a story of how this paper began. One cold and blustry March night, me and the old bat I live with, sat upon our orange crates, in our so called living room, nibbling on cheese, thunk up a way to squeal to you Rats". She squeaked, "Hey RAT, you know what weuns should do? I squeaked back, "Naw." So she up and aqeaked back, "Make up a paper for them Rats you chaw wit."

That is it, and this is the result. Do you want it continued? Of course you know this is just a sample, and if you want the paper to continue, send in your opinion. Other columns will be added if you like it.

P.S. This edition has been written and edited by me. If you don't like it, "Cheese to you."

Helen

RETURNING FROM APRIL 1958 TO 1959

The preceding was from the first issue of "Cheese Bits". I know you want it continued because we have gone from three pages to at least ten pages in all other editions. This is all due to the fine cooperation received from the members.

The following is an example of the cooperation from Ed W3HKZ

HAM TV STATION GIVEN FIRST DEMONSTRATION

What apparently is the first road demonstration of a "package" amateur television station in action was held in Denver, Feb. 18, according to Gene O'Fallon & Sons, Denver distributors for the Electron Corp. division of Ling Electronics Inc., manufacturers of the package ham TV equipment. Gene O'Fallon Sr., head of the Denver distributing firm, and former owner of KTVR (TV) Denver, said Denver ham operators were the first to see the package TV system outside the factory at Dallas. The Ling equipment includes the Ling-Mitter ham TV transmitter and Ling Spectator camera. Hams use uhf converters on regular TV sets to receive TV signals. Mr. O'Fallon said factory tests indicate excellent pictures up to 18 miles. FCC spokesmen said last week that amateurs have been telecasting for 10 years but so far as they know no one up to now has produced a package ham TV station. Of the four bands in the spectrum assigned to amateurs, only 420 450 mc is used for TV in addition to voice, code and facsimile transmissions. Audio for ham TV usually is transmitted on one of the Non-TV ham bands.

(Ed. note; W3IBH, Charlie has been working with ham TV for some time.)

The Phila chapter, Professional Group on Communication systems will meet on Monday March 30th at 8:00 P.M. in auditorium A-1 Physical Sciences Building, University of Penna. A paper will be discussed on various aspects of Diversity Reception. Characteristics of fading resulting from multipath propagation, then space and frequency diversity as a means to improve the reliability of the communication system in the presence of fading. It will be proved that space diversity is less efficient than frequency diversity.

At a meeting at Philco "A Two-Cavity Unilateral Maser Amplifier" was discussed. The amplifier described is one of a growing class of devices which uses the

phenomenon of induced emission from atomic or molecular particles to obtain coherent oscillation of emission. A discussion was presented pertaining to a method for obtaining unilateral amplification by means of a MASER employing two isolated resonant cavities with prestimulation.

The Reactatron - A low-noise Semiconductor Diode Amplifier.

Great strides have been made in the past couple of years in achieving very low noise amplification through the development of atomic (Maser) and variable reactance (Parametric) devices. Of the several varieties of parametric non-linear capacitance of a diode to achieve amplification at UHF frequencies. They have achieved a noise figure of 2.7 db by employing two silicon junction diodes in a balanced hybrid system, a spectacularly low noise figure for a nonatomic device.

Four methods of determining transmitter power output:-----

1. Calorimetric method - In the calorimetric method, the power can be measured by dissipating dc or low-frequency ac power at the same load and noting the amount of power measured in a conventional manner that is necessary to produce the same temperature rise in a coolant at the same flow rate.
2. Current-Resistance Method - This method consists of measuring the rms RF current through the load and calculating the average power as the current squared times the equivalent series resistance of the load.
3. Photometric Method - In this method the load consists of one or more incandescent lamps. The light output of the lamps when acting as the transmitter load is measured by use of a photometer. The power absorbed by the lamps is then calibrated at at the same light output level by replacing the transmitter with ac or dc power source.
4. Directional Wattmeter Method - This method uses a device which is usually designed for specific impedance and frequency ranges, and is calibrated to measure the incident and reflected power in the transmission line.

(Ed. Note: Omitted is a list of dates for the IRE Convention in N.Y. The reason for the omission is that you will not have the paper in time to attend. Should any one attend and care to send in a report, we will be happy to put it in the May issue.)

OFFICIAL BULLETIN NR 692 FROM ARRL HDQS.  
WEST HARTFORD, CONN. FEBRUARY 26 1959

TO ALL RADIO AMATEURS BT.

The Federal Communications Commission has acted on the League's request for expansion of the 20 meter phone band and proposes to add 50 kc for phone at the top end of the band so that the voice segment would be 14,200 to 14,350 kc. Comment may be filed with FCC up to May first. Details will be in April QST.

AR.

OFFICIAL BULLETIN NR 693 FROM ARRL HDQS.  
WEST HARTFORD, CONN. MARCH 5, 1959.

TO ALL RADIO AMATEURS BT.

Outstanding totals were registered in the VHF Sweepstakes of January 10 and 11. Single operator stations scores of well over 5000 points are claimed by W1RFU, W1HOY, W1RJA, W1HDQ, W2BLV, K2HLA, W2PAU, W2BV, W3TYX, W3HYJ, W3KKN, W3TDF, K4HZO, W4RMU, K5MJW, K5TYW, K6RNQ, W6BAZ, W7RT, W8RLT, W8LPD, W8NRM, K8BPC, K9DOE, K9CSI, W9JCI and many others. The following multiple operator entries also made outstanding tallies: W1MHL, K1CRQ, K2ITP, W2ADE, W2PEZ, W4ZZ, K5STI, W6SDW, WA6CID, K6SLQ, ~~K7QQC~~. A complete listing of ARRL VHF Sweepstakes high claimed scores appears in April QST.

AR.

(Ed. note: We don't want to brag, but out of the four W3's the first three are Mt. Airy members. We would also like to congratulate our friends in W1 and W2 land who are also mentioned in the above bulletin.)

4



POWER SUPPLY: 850 V. DC @ 500 mills 816's as rectifiers.

300 V. DC regulated screen supply

350 V. DC supply of about 250 mills: All on one chassis (17" x 13" x 4")

19" rack panel 10 1/2" high. Panel has 0-300 DC millimeter (Simpson) Price \$30.00

2 METER GONSET MOBILE CONVERTOR. New condition. Price \$20.00

Jackson RF signal generator, 100 kc & 216 mc - plus - AM 400 cycles audio output. Price \$20.00

\$ x 250 B - new - never in a socket. Price \$15.00

For further information on the above articles contact; Buck, W3JZT

Terrys Trailer Park,  
Cornwells Heights, Pa.  
Me. 9-4207

RAT  
SQUEAL  
By  
W3SAO



It seems that the love bug has been in the families of our members. We reported the forth coming marriage of Ron, K3ENT, harmonic of Herm, K3GOZ in September. Now we have another one to announce. Karl, the harmonic of W3ASD, Karl, is getting married in January. He and his intended stopped at the QTH on Sunday afternoon, February 22nd. I always thought that June was the month for marriages. (Keep it to yourself; we got married in July.)

We don't know the kind of neighborhood that W3AYJ, John lives in, but in the Evening Bulletin we read about a driver hitting a Jet Plane. It seems that the driver tried to avoid hitting a dog, and went through the fence at the Naval Air Supply Depot and knocked a Jet Plane off the display blocks. P.S. The driver was from our neighborhood.

K3AUH, Al stopped in one night and told us that at present he is working for his father, but will soon start school at Temple and take ROTC training there.

Bobby, the harmonic of K3BVZ, has been a pretty sick boy lately. The doctors aren't sure whether it is an allergy or something more serious. Hope to have a better report soon.

Bobby, the harmonic of W3HWV, Bill, was in the Nazareth Hospital with pneumonia. After the congestion cleared up he had a hacking cough and the doctors weren't sure what was wrong with him. Understand that he is at home now. Hope everything clears up soon.

Mistaken identity; One night the door bell rang at the QTH of W3AYG. His XYL answered it and the man asked for John. Thinking it was a Ham she took him to the shack in the basement. When the man saw John he said, "That isn't the John I want to see." He wanted a man two doors away.

## A CORRECTION

On the preceding page under "For Sale" I made a boo-boo.

\$ x 250 - new- never in a socket, should read; 4 x 250 - new - never in a socket.

So solly, beg humble pardon.

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## Coming Events

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### TV PROGRAM - HAM RADIO

All you guys that like to sleep late on Saturday will have to arise early on April 18th. (Including Frankie)

WCAU TV has allotted one hour to Ham Radio on Saturday, April 18th, from 7:30 to 8:30 A.M.

This is a combined show for radio clubs in the Delaware Valley, and no one club will receive any credit. Mt. Airy will be represented by W3CPT, Ken on 2 meters, and W3AYG, John on 6 meters. As we understand it, Hams donating equipment will appear on the show demonstrating and operating it. If there are any 220 mc or higher operators who would care to demonstrate their rigs, contact W3HKZ, Ed Kushner our club representative

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Just a gentle hint to move your clock ahead one hour before retiring on Saturday, April 26th. One week following the telecast.

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FAMILY DAY, OR HAM FEST AUGUST 9th (RAIN DATE: AUGUST 16th) FORT WASHINGTON STATE PARK, FLOURTOWN, PA.

Come on boys, start talking it up, so that our friends can make arrangements for their vacations so that they are able to attend.

The committee is already hard at work planning the program and typing letters for prizes. A letter is in the mail to the manager of the Park asking permission to use a recording machine for dancing for the teenage guests, in the pavilion. We have the equipment and we need are the records, 45 or 33 1/3 RPM. Should you have any, and would like to donate them just for the occasion, please make a list of the records; name and number, for yourself so that they will be returned to you. Flyers are already made up to be mailed, at a later date, to all our friends who have attended the last three events.

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### OLD TIMERS NIGHT

The following is a letter received from the Delaware Valley Radio Association.  
(cont'd next column)

Dear OM:

You are cordially invited to attend the 14th Annual Old Timer's Nite Round-up and Banquet to be held on Saturday evening, April 18th, 1959 in the Grand Ballroom, Hotel Stacy-Trent, in downtown Trenton. As in the past the party will be STAG.

This annual event, sponsored by the Delaware Valley Radio Assn., is held during the month of April, to honor the early living pioneers of wireless, and to reminisce on their experiences of yester-year.

A turkey dinner will be served promptly at 6:30 o'clock in the ballroom. We will have with us this year the famous explorer and old time wireless operator, A.H. "Bud" Waite, Jr., W2ZK of Antarctic fame. He will tell us of his experiences at the South Polar Regions. Bud is presently with "Operation Deep-Freeze", but will return in time for the banquet.

Bring along your oldest amateur and commercial licenses, as awards will be made to those holding the earliest dates. To be eligible this year for the "Grand OM" Silver Cup Award, which cites the radio operator present with the longest service in the wireless game. A resume of his operating experiences, licenses held, and early background, must be submitted to the General Chairman, W2ZI, in writing, not later than April 15th, to be judged at the banquet.

Tickets are by reservation only, and may be obtained by mailing your request, on or before April 13th, with your remittance of \$6.00 per man to Ed G. Raser, W2ZI, 19 Blackwood Drive, Trenton 8, N.J. Late comers will be assessed \$7.00 at the door.

W2ZI's now famous collection of Antique Wireless Gear will be on display. Plan to bring along as many guests as you wish, EVERYONE is welcome. Even the Novices come along to join in the fun.

I am looking forward to meeting you there in person, with 73

Sincerely & fraternally,

Ed. G. Raser, W2ZI  
General Chairman  
1959 Old Timer's Nite

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Should you fellows care to attend in a group and represent the "Pack Rats", give your name and \$6.00 to Frankie and he will make a group reservation. We presume, as in the past, all club groups will be placed at the same table.

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Come on fellows bring your XYL or YL to "Ladies Nite" and she'll let you attend "Old Timer's Nite" (Hi-hi)

A FEW MORE "RAT SQUEALS"

TO ALL RADIO AMATEURS BT.

The 1959 Operation Alert has been scheduled for April 17 and 18. Word from the Office of Civil Defense and Mobilization indicates that a pattern similar to that of last year will be followed. In order to demonstrate the compatibility of AREC and RACES, maximum possible participation by AREC units in this exercise is requested. Emergency Coordinators will receive full details in a special bulletin early in April. Meanwhile it is recommended that all AREC members get in touch with their EC's and plan to take part, and that RACES Radio Officers and Emergency Coordinators get together to formulate plans for a joint exercise in cooperation with local and state civil defense officials.

AR.

APRIL MEETING

The April meeting of the club will be held on Wednesday Evening April 15th at 8:00 P.M. at West Oak Lane Jewish Community Center, Sedgwick and Thouron Streets, Mt. Airy.

Take special note of the meeting date, it is also the deadline for paying your Federal Income Tax.

This is also a good time to check with Ken, W3CPT, the treasurer about your dues. Remember nomination is in May and election is in June. Unless you are paid up you will not be eligible to vote.

At this date, we are not sure who the speaker will be, so be sure to join the Monday night nets; 2 meters at 8:00 P.M., 6 meters at 9:00 P.M. and 220 at 10:15 P.M. As soon as we know for sure who he will be, it will be announced on the nets.

Change of address;  
K2LXI/3 George Gacoumas  
116 Mark Drive,  
Yardley Farms,  
Morrisville, Pa.  
Cy. 5-2849

Here's wishing W3EXL, Ellis a speedy recovery. Spoke to him on the phone the other day, and he sure sounds bad.

JUST THROWN IN

At a recent Civil Defense Training meeting held at Fort Monmouth, N.J. one of the speakers made this announcement. "It is my duty to speak to you, and it is your duty to listen to me, should you finish first, please leave quietly."

The above comes from a school nurse who attended the meeting.

The first one is on me. I must write W3AYG 500 times. It seems that a couple of pages back, under "RAT SQUEAL" I called him W3AYJ. I'm sorry, John. Please don't shoot me.

K3CIV lost his 6 meter beam in a recent high wind. Understand that Ralph is still under the weather. It seems that all the bad weather in Kansas didn't bother him, but as soon as he returned one of those nasty virus bugs bit him. Hope you recover soon.

W3CL, Harry, is going to 200 watts on 2. What goes on, Admiral of Sunken Heights?

W3FSC, Ozzie, lost one element on his 6 meter beam due to high winds. Seems like March is really roaring through 1959.

Remember the old Roman saying, "Beware the Ides of March"? Well March 15th was a beautiful Spring day, but look out for storms to come. Remember March 18th, 1958? What a snow storm.

W3KKN, Ernie, is so busy with overtime work that he is unable to be net control on 6 meters on Monday nights. W3CL, Harry has taken over and is doing a good job, but we do miss Ernie's melodious voice.

We would like to take this opportunity to thank Walt, K3BPP, for pinch hitting as net control on the 220 net. Walt is not a member of the club, but he does come all the way from Doylestown each month to attend the meetings. Thanks again, Walt.

Wonder when W3ASD, Karl, is going to get on 2 meters? Please stay home some Sunday, Karl Jr. and help get that beam up.

Sorry to report that the father of W3CPT's XYL, Sophie, is in the Willow Grove Hospital. We know that he is in good hands, as this hospital is owned and operated by our own Doc Stewart, W3IHT.

Saw Ron, K3ENT, harmonic of Herm, K3GOZ, last Sunday. He is purchasing a new car and is looking for a 6meter convertor, or a 6 meter Gonset. Anyone know where he can get one? He stopped in to give us old signs from mail trucks so that Frankie can make signs for the picnic to be placed on the highways to direct our friends to Fort Washington State Park.

Happy to announce that W3SAO, Frankie has regained 2 of the four pounds he lost in his recent bout with the virus. He can afford to lose four pounds? Me, yes, but Frankie, no. He is now back to 103 pounds.

Wonder how the "Anthracite Wireless Club" in Tamaqua is doing. Haven't heard from them for awhile.

HI, HI, and WELCOME ABOARD TO "X-MITTER",  
BUCKS COUNTY AMATEUR RADIO CLUB.

(You name it, but I call it "Spring  
House Cleaning.")

We are more than happy to exchange papers  
with our good friends in Bucks County.  
The editor of the "X-Mitter" is Clare,  
W3IKI who we see each year at Bowman's  
Hill, in June, and at Fort Washington State  
Park in August.

Sorry, Clare, that the announcement of  
your dinner at Willow Grove Naval Air  
Station arrived too late to put in the  
March edition, but it was announced on  
the 2 and 6 meter nets the same night  
that we received the notice. Frankie and  
I will not be able to make it, but we do  
wish you success, as you have a fine  
program arranged.

Be sure to let us know about your picnic  
in June as we are looking forward to being  
there. We missed it last year because  
some screwball driver went through a stop  
sign and got hit by another car and  
landed on top of our car. We were without  
a car from the 22nd of May until the 19th  
of July.

I hope you don't mind if I borrow an  
article from your February issue. It is  
unusual and I feel sure that it will be  
of interest to our Ham friends.

Borrowed from "X-Mitter"

Heddy, KN3GSV, received a SWL card from  
the Pembroke Radio Club. The club is  
described thusly - The Pembroke Radio Club  
is composed of inmates of this institution,  
supervised by the Education Department.  
Instructor W1ADW. The silk-screen card is  
produced by the inmates at the school.  
The complete address is; Pembroke Radio  
Club, Federal Correctional Institute,  
Danbury, Conn.

(Ed. note; This proves that Ham Radio is  
also used as a source of rehabilitation.)

"LADIES NITE APRIL 11th"

If you are going and do not have your  
reservation in do so at once. Make your  
reservation either with Ernie, W3KKN or  
John, W3JSD. Remember it is being held at  
Southwark A.C. at 7:00 P.M. and the cost  
is \$4.00 a piece.

A FEW HA, HA'S JUST THROWN IN

A scoutmaster, noticing that his recruit  
scouts were having difficulty organizing  
their first cook-out, asked whether they  
had forgotten any essential equipment.  
"Yes," replied one. "My mother."

A tourist is a fellow who travels hundreds  
of miles in order to get a snapshot of  
himself standing by his automobile.

For some of us, roughing it means turning  
the electric blanket down to "medium."



"Ha, Ha's sent in by Ken, W3CPT"

Past Events

MARCH MEETING

In appreciation for the extra services  
rendered to the club as a non-member,  
K3BPP, Walter Bolhman, from Doylestown,  
was voted in as an honorary member. He  
is afforded all the privileges of the  
club with the exception of voting and  
payment of dues. What Walt has done for  
the club is on the preceding page under  
"RAT SQUEALS" Add him to your membership  
list; K3BPP Walter Bolhman  
32 Bridge Street,  
Doylestown, Pa.

Also voted into the membership were;-  
W3BRU Frank R. Benner  
523 Vine Street,  
Perkasie, Pa.  
ALpine 7-2450

and  
K3EMR August D. Felix  
32 Township Line,  
Elkins Park, 17, Pa.  
Pi, 5-3525

The speaker for the evening was W3KZ,  
Rod Buggy from the Phila. Navy Yard.  
His topic was; "The Effect of Inductance"

WANT AD

Wanted--a low power 6 meter AM Xmtr in  
trade for three new Eimac 4 x 250B,  
rated at 500 watts AM up to 200Mc; s;  
Net price, each \$42.50

For further information on the above  
contact; K2DEI George A. Ryan  
456 Elm Avenue,  
Maple Shade, N.J.  
No 5-0358 or  
De 2-2234

FRANCIS D. BRICK W38AD  
829 W. FISHERS AVE.  
PHILA. 41, PA.



W38EN Ernest Kenas  
2023 Old Welsh Rd.  
Glenview, Pa.