

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

MEMBER CLUB: DELAWARE VALLEY COUNCIL OF AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE

VOLUME X

DECEMBER 1967

Number 10

OUR PREZ SEZ



Now that the days have gotten shorter and we are in the so-called winter season (almost) I get the distinct impression that the months have also gotten shorter. They seem to go by almost without notice. Seems I just wrote this column for last month a few days ago, and here I am late with the next one.

The past club meeting (November) was a very enjoyable one to me and there seemed to be a very good turnout. Maybe it's because Home-Brew Night brings to mind a very real fact that this is really what ham radio is all about. To me, the lure of turning knobs and beating of gums gets a bit thin after a while. Not that I don't do enough gum-beating myself, and I do enjoy throwin' it around as much as the next guy, but there comes a time when you feel like having some gear that you either can't afford or is just not available off the shelf. This is the time to recall that some mighty impressive things have been built on a kitchen table, by fellas that were not and are not talented development engineers. Not that talent doesn't help, not that mathematical derivations are not peachy, and all that stuff in the technical journals is fine and dandy. But ... we are not building a space craft ... this is ham radio and we can afford to tinker a bit. All we need is an idea ... a bit of motivation and the rest comes in due course. You say it did not work the first time? What ever did? Not much that I've ever built, at least not well. The game is played like this: first, you build it; next you de-bug it, and then you go looking for help when and if you get stuck. Our technical committee is getting rusty just because they are not used enough!

If anyone is interested, I have the plans and the board layout for the W9TO Electronic Bug which seems to be about the smoothest operating unit around. Some of the recent designs must scare a lot of people away from the whole idea. The last one I saw looked like the inside of a full size digital computer. Almost as many transistors, too. Nothing like that in this unit - four nice simple vacuum tubes and a handful of parts and a relay, and there you are ... automatic dots and dashes.

Don't forget to finish all the preparations for the big contest coming up next month. Those holidays have a way of using up all the spare time so consider how nice it will be to enjoy the coming Holiday season, secure in the knowledge that all the equipment is perking along just the way it should for January. Better check it out now!

73, Dave, W3LHF

Best wishes to all for the Holiday Season

73. Dave. W3LHF

PACK RATS' CHEESE BITS is a publication of the Mt. Airy V.H.F. Radio Club, Inc., Philadelphia, Pa., and is published monthly.

10¢ per copy \$1.00 per 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 the proper credit is given.

DEADLINE FOR ARTICLES IS THE 20TH OF EACH MONTH.

ALL INFORMATION SHOULD BE SENT TO:

ELLIOTT T. WEISMAN, K3JJZ
8533 ALGON AVENUE
PHILADELPHIA, PA. 19152
215 - PI 2-3525

TRUSTEE OF CLUB CALL: W3CCX

W3SAO, FRANCIS BRICK
821 W. LINDLEY AVENUE
PHILADELPHIA, PA. 19141
215 - DA 4-7524

PRINTER AND SUBSCRIPTION MANAGER:

K3GAS, DOC CUTLER
7815 NEW SECOND STREET
PHILADELPHIA, PA. 19117
215 - ME 5-1078

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE
#5 SUNNYBROOK COURT
STRATFORD, N.J. 08084

DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

CODE PRACTICE:

7:00 to 7:30 P.M. MONDAY THROUGH FRIDAY, 50.2 MC. BY W3CL, HARRY STEIN.

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.

OFFICERS -- 1967-1968:

PRESIDENT: W3LHF, DAVID ZIMMERMAN
VICE-PRESIDENT: W3HSS, CHARLES LUSTICK
CORRES. SEC'Y.: W3SAO, FRANCIS BRICK
REC. SEC'Y.: K3ZPN, LLOYD SCHOENIG
TREASURER: W3MVF, DAVID BLOCH

DIRECTORS: K3JJZ, ELLIOTT WEISMAN
W3MFY, PRESTON FUNK
W3KKN, ERNEST KENAS
K3UJD, MARIO FONTANA
K3CIV, RALPH HERSH
(Ex-Officio)

PHILADELPHIA COUNTY ARPS:

E.C.: W3PST, WOODY HALDEMAN
1732 LONKY STREET
PHILADELPHIA, PA. 19111
21215 - RA 5-1106

MEETINGS: FOURTH WEDNESDAY OF EACH MONTH AT 8:00 P.M.

Canada to begin work on world's biggest high voltage transmission system (via Nortopics)

The Canadian government has begun to award contracts for what will be the highest voltage long-distance electrical transmission system in the world. The lines will carry 900,000 v. of direct current about 600 miles from a generating station near Hudson Bay to Winnipeg, Manitoba.

When fully operational in the early 1970's, the system will provide Southern Canada with 5,000,000 kw of new power resources and reinforce the U.S.-Canadian network of transmission lines.

English Electric Copr. will build the 33.6 million transformers and mercury-arc conversion equipment to turn alternating current at the generator into direct current. Direct current is less costly to transmit over long distance because the lines cost less to build: direct current is also easier to control.

FCC has denied four petitions of long standing requesting the separation of AM and SSB. The Commission comments that one of the unique features of the Amateur Service is the wide choice of emissions and frequencies available and the desirability of continuing this freedom of choice. They observe that a voluntary self-adjusting separation of SSB and AM has evolved and it appears to be working well. In another action, the commission has issued a Notice of Proposed Rule Making to permit slow-scan TV in the 3800-3900, 7200-7250, 14,200-14,275 and 21,250-21,350 kc. segments and in the full voice bands of 10, 6 and 2 meters. Note that the former are the eventual Advanced and Extra Class license sub-bands. The League's original petition filed in 1961 requested just portions on 10 and 15 meters. Comment date is December 1, 1967, more info in NOV QST.

DID YOU KNOW

That the Pack Rat of the Year Award was first presented in 1965 to W3CL. It was instituted to pay some honor to a club member who had, unselfishly, given of his time and effort for the good of the club. It is hoped that this will be an annual award. The Award will be presented at our annual Ladies Night affair.

Another Award worth mentioning is the CHEESE BITS Article Contest. A year's free dues goes to the writer of the best article in our CHEESE BITS the previous year. Everyone has a chance to win so how about writing an article now and maybe you can be a winner.

That the antenna party at the QTH of K3GAS came off without a hitch. Present were K3HSS, K3UJD, W3MVF and WA3EPS. A new J beam on 432 was put up and new 300 ohm twin lead put on the 220 mc coilinear. All antennas are working well. Many thanks to the crew.

TWO METER ACTIVITY
W3LHF, David Zimmerman

After the November Club meeting and the inspiring talks on home-brew, and after observing the results that can be had by home brewing equipment, I feel certain that much construction is now going on. If that is the case in your shack, and there is a new 2-meter rig in the planning stages, by all means consider including cw in the machine. You will never be sorry.

Think back for a moment to any contest that you care to recall and see if some of the gang did not pick up extra sections on two meter cw. Last year was an exceptional example because of the aurora, so that last year about ten extra sections including Michigan, Illinois, Indiana, Ohio, VE2, VE3, and all of the New England states ... all on cw ... were available even to low powered stations. It's true that some of this stuff was also worked on SSB on Six but did you hear the competition? Nothing like those cat and dog fights on two. Some of those exotic stations were heard calling cq between contacts repeatedly during the night.

A few more of the guys are hard at work copying CW via W3CL on Six, ARRL code practice on the HF bands, or home records and machines. At least one is about to go up for general after a few weeks of steady effort. That's about all it takes once you have really made up your mind that you are going to do it. Isn't that true of anything we start to do though? The hardest part is convincing the guy inside.

Not too much to report on the air this month because I'm still working the gremlins over and still not sure who is getting the better of the battle. I expect to give the whole mess a good workout one of these nights so look out all you Six meter men when I turn this burner down toward Philly!

I did hear from K1WHT, ARN whom many of you know from his being at our picnic several years running, and he informs me that his brother, Dave, K1WHS, is now working for NASA Space Science Center in New Hampshire, so maybe we can look forward to having one more station on in January in N.H. Have to check on that.

RF POWER AMPLIFIER CAPITALIZES ON FET CHARACTERISTICS
Submitted by W3HKZ, Ed Kushner

One of the latest FET applications is in RF power amplifiers, where the device's high input impedance and power gain simplifies interstage coupling and reduces the need for intermediate power stages. Also, since the FET is a single junction device, breakdown occurs at the avalanche voltage of the semiconductor material and secondary breakdown effects are nonexistent.

An additional dividend with FET power amplifiers is the elimination of thermal runaway; as the junction of temperature rises with increase of dc power input, the static drain current and power dissipation decrease.

BOOK REVIEW NETS ON 6 and 75 METERS
K3WEU, Paul R. Behrmann, NCS

In a continuing effort to provide additional services to the amateur community especially in the Eastern Penna Section, a combination net and "round-table" on the subject of books will begin on a weekly basis Tuesday evening 11/28/67 at 8:00 p.m. local time on six meters at a frequency of 50.2 Mc. The date, time and frequency of the 75 meter net will be announced at a later date.

This project will be under the aegis of the Eastern Penna Section of the American Radio Relay League, Inc. The books to be reviewed and discussed will not be limited to those of a technical nature only, but titles of general themes, fiction and non-fiction will be the subjects of future nets.

In view of the widespread interest in the new Incentive Licensing Regulations, the first book to be reviewed will be EXTRA CLASS AMATEUR RADIO LICENSE HANDBOOK written by Howard S. Pyle, W7OE, and published by Howard W. Sams & Co., Inc. George S. VanDyke, Jr., W3ELI, Section Communications Manager of the Eastern Penna Section and the Penna State MARS Director (First US Army) will be the discussant leader for this book; all interested stations are cordially invited to check into the net. Each participant will be offered the opportunity to make comments and ask questions relevant to the EXTRA CLASS HANDBOOK. These reviews of technical books and discussions are intended to assist MARS members and amateurs to upgrade their licenses.

BOOK REVIEW continued

We feel that this new concept in amateur radio will be an enriching experience for all who listen and especially for those who actively participate. Other stations will be offered the opportunity of being a discussant leader on future nets. Your suggestions as to books to be reviewed and your comments on our format will be sincerely appreciated. Please send radiograms, MARSgrams, letters or postal cards to me.

Mark Tuesday, November 28 on your calendar for the initial net.

Very 73

Paul R. Behrmann, K3WEU, NCS
5101 Wynnefield Avenue
Philadelphia, Pa. 19131
Telephone: 215 - 877-0562

MY PRAYERS FOR THIS DAY
THANKSGIVING 1967
K3GOZ, Herman Klein

T-hank Thee, our Father in Heaven, for this day,
H-umbly we praise Thy Goodness for it.
A-nd bless all mankind on their way,
N-ow in a sea of distress.
K-ing of the universe, we beseech Thee,
S-how us the righteous way.
G-ive us vision, that we may see,
I-n darkness your comfort and the grace of day.
V-isit upon us, Your merciful blessings,
I-nspire us with courage and strength.
N-eedfully we beg Thy forgiveness for our transgressions,
G-rant us health and long life, until from this earth
we must part.

Amen

JANUARY 1968 - ARRL VHF CONTEST
K3HSS, Charles Lustick

COORDINATORS:

To all of you chosen to be coordinators in this coming January contest, I can say you are now part of the most important function of the Club's effort each year to continue being the winner of the January VHF Sweepstakes. The function, having many duties, once accepted carries the obligation of the individual to carry out his assignments to the best of his ability in a most expeditious and timely manner. I believe everyone realizes that lackadaisical and uncoordinated efforts or results could degrade the work of the entire committee and in many cases prove useless. No amount of words can express the importance of the coordinators play in welding together a winning team.

Since the duty of the coordinator is to see that the members of his group participate in the contest, this can best be accomplished by assisting them in every way possible to resolve any problems which could keep them out of the contest. It is suggested that all coordinators make personal contact with each member, analyze each situation with the purpose of making the station operational for the contest period. Fortunately, the majority of the stations have proven they can weather a contest so the greatest effort should be expended with new members and stations which have not made any noticeable improvement in contest performance in the past several years and last, but not least, the stations which have not participated.

Coordinators should not feel they have to solve all problems themselves, particularly technical problems. All the resources of the Club will be utilized by the Contest Committee to aid the coordinators and members when needed. No one person has the answer to all problems so don't be backward about asking for help.

The questionnaires supply the present status and needs of the members. This information is vitally needed by the committee for analysis and planning. Remember early completion of the questionnaires will allow you sufficient time to review

THE PACK RATS

THE MOUNT AIRY VHF CLUB INCORPORATED

ORGANIZED MAY 15, 1956

MEMORIAL CLUB CALL W3CCX

MEMBERSHIP LIST AS OF OCTOBER 1967.

K3AA PAPOO	K3EHQ JIM (R)	K3IUV BERT	K3TPM BUD
K3ABK SAM	W2EIF JOE	WB2IOE LOU	K3UJD MARIO/BILL
K3ACR RICH	W3ELI GEORGE	W3IXL ELLIS (R)	K3VEQ JOE (R)
K3AFT JOE(R)	K3EOD ALLEN	K3JJZ EL	K3WEU PAUL
W3AJF DEAC	K3EOU PAUL (R)	WA2JNA JIM	K3WGL BRUCE
K3ALK GEORGE (R)	K3EPB HOWARD	W3JSD JOHN	K3WGK DON
W3ANW BRUCE	K3ESL BEN (R)	W3KKN ERNIE	W3WIJ TOM
K3AUH ALAN	WA3EPS MORT	W3KLL WALT(R)	K3YPL NICK (S)
W2AXU JACK	WA3ERQ JOHN	K3KTY JOHN	K3ZKO RON
W3BAH } HAM	WA3FAA HOWARD	K3KUB WALT	K3ZPN LLOYD
W3BQU } HAM	W3FGQ WALT	K3KVS JERRY	K3ZPQ BOB
K3BGT/2 HARVEY (R)		W3KXH JIM (R)	W3ZRR RAY
K3BHK JERRY (R)	K3GAS DOC	W3LHF DAVE	W3ZTL MYLES(R)
WA3BIV CARL	K3GAY DON(R)	K3LNV ELMER	K3ZVD JIM
K3BOY MIKE	W3GEC JOE (R)	W2LZA LYLAN	
K3BPF WALT	W3GEW SID	W3MFY PRESS	K0ZZM/3 CHUCK
W3ERU FRANK	K3GFG HAROLD	K3MSV JULES (R)	
WA3BRV HARRY	K3GQJ JACK	W3MVF DAVE	W3PST WOODY
W3BVR TED (R)	W3GXB BOB	W5NFD/3 GEORGE	K3JJ0 WALLY
WA3CAG DAVE	W3HAB MONROE	K3NMM LEN (R)	K3MXX LEE
WB2CDP LOU (R)	W3HPY HAL	WB2NOK BOB	
K3CIV RALPH (R)	WA3HIT PAUL	W3NSI LYN	
W3CJU DON	W3HIX JOHN	WB2O4D WILL	
W3CL HARRY	K3HJA EARL (R)	K3OBY JIL	
W3CLQ WALT (R)	W3HKZ ED	W3OR ALAN (R)	
W3CLT DOC (R)	K3HSS CHARLIE	W3OZP BILL	
WA3CND CANDY	K3HWZ BILL	W3QAS LYN	
WA3CQC JAY	W3HYO LENNY (R)	W3QB JAY (R)	
W3CXU JOHN	W3IA TOM	K3QFQ GEORGE	
K3DLS CARL	K3IPH ED (R)	W3RZU ELIO (R)	
K3DUC PHILK3D	K3IGX DICK	W3SAO } FRANKIE	
K3DUW ALAN (R)	W3IHT DOC (R)	W3CCX }	
WB2EEH JOE	K3IPM STAN	W3SMK JIM (R)	
WA3EHD JIM	W3ISV SYL	WB2SZK BANDY	

THE ABOVE IS AN ACCURATE LIST OF PACKRATS AS OF OCTOBER 1967. IT INCLUDES ACTIVE MEMBERS, RETIRED MEMBERS (R), AND STUDENT MEMBERS (S)

MONDAY VHF ROUNDUP BY ALLOCATIONS

<u>TWO METER NET</u>	<u>SIX LETTER NET</u>	<u>TWO TWENTY NET</u>	<u>FOUR THIRTY TWO NET</u>
145.2 MCS	50.2 LCS	221.4 LCS	432.0 to 432.3 LCS
START 7:30PM	8:30 PM	9:30 PM	10:00 PM
NET CONT. W2EIF	W3CL	K3GAS	K3IUV/K3UJD

<u>RED COATS</u>	<u>HILL-BILLIES</u>	<u>BOULEVARDERS</u>	<u>SANDPIPERS</u>	<u>CRAWLERS</u>	<u>SCREAMERS</u>
K3APT	K3AA	WA3BRV	K3ABK	W3AJF	W3BQU/W3BAH
W2AXU	K3BPP	WA3CND	K3ACR	W3ANW	W3CL
K3BGT/2	W3BRU	W3ELI	K3ALK	WA3BIV	W3CLT
K3BHK	W3CJU	K3EOD	K3AUH	W3BVR	WA3EPS
WA3CAG	W3CLQ	WA3ERQ	K3BOY	K3CIV	W3HKZ
W3CXU	K3DUC	K3ESL	WB2CDP	WA3CQO	W3IXL
W3GEO	WA3EHD	K3GAS	K3DLS	K3EHQ	W3KLL
K3GQJ	K3EOU	W3GEW	WB2EEH	W3FGQ	W3OR
W3HAB	K3EPB	K3GFG	W2EIF	W3HPY	W3RZU
K3HWZ	WA3FAA	K3IPH	WA3HIT	W3HYO	K3ZPQ
K3IPM	K3GAY	WB2IOE	K3HJA	K3IGX	KØZM/3
K3IUV	W3GXB	K3JJZ	K3HSS	W3ISV	
WA2JNA	W3HIX	K3KTY	W3IA	K3INV	
W3JSD	W3IHT	K3KUB	K3KVS	K3NMN	
W2LZA	K3JJO	W3KXH	WB2NOK	K3OPQ	
W3MPY	W3KKN	K3MSV	W3NSI	W3QB	
WB2OAD	W3LHP	W3MVP	K3OBY	K3VEU	
W3SLK	K3TPM	W5NFD/3	W3QAS	W3WIJ	
K3WGI	K3UJD	W3QZP	W3SAO/W3CCX	K3YPL	
K3WGK/W3BEL		W3PST	K3VEQ	W3ZRR	
K3ZVD		WB2SZK	K3ZKO	W3ZTL	
K3ZPN					

NOTE THE TITLES ARE GIVEN FOR THE DIFFERENT DIRECTIONS INSTEAD OF GIVING THE DIRECTIONS THEY ARE FROM THE NET CONTROL. PLEASE CALL IN WHEN YOUR COLUMN TITLE IS ANNOUNCED. GROUPS WILL BE ROTATED SO EACH WILL TAKE TURNS AT THE START OF THE NET, AND BE FIRST TO CALL IN.

73 HARRY W3CL

JANUARY CONTEST continued

them and be prepared to give a good report on the status of your group at the second coordinator's meeting.

In closing I would like to say that the wonderful success of the Club in the last number of years reflects the tremendous job done by the Committees and their coordinators in preparing and guiding the Club's effort in maintaining its number one position in the contest field. I am sure the efforts we put forth this year will add to the glory of the past years with another gavel.

SWAP SHOP

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

FOR SALE:

Utica 605-A with VFO - perfect condition; jacks for phone patch and monitor scope - PTT Mike; AC and DC cables -- cheap at \$100.01

Contact: WA3EPS, Mort Mazer
657-2221

FOR SALE:

NC 190 Receiver; belonged to K3DUW -- \$100

and

Two almost new snow tires on rims; 7:35 x 15 -- \$20

Contact: K3GAS, Doc Cutler

FOR SALE:

Comco 700 transceiver, 221.4 mc. xtal controlled. Pre-amp, mike, power supply for AC, new tubes, speaker with cabinet. \$60 or what will you swap?

Contact: WA3CQO, Jay
CH 7-4791 or CH 7-5247
evenings

WANTED:

220 mc. transmitter, 20 watts or more, either VFO control or using 8 mc. xtals. Must have modulator.

Contact: WA3CQO, Jay
CH 7-4791 or CH 7-5247
evenings

FOR SALE:

Johnson Valiant xmtr; 275 watts input; excellent condition -- \$150

Contact: WB2IGB, Ciro
609 - 829-6507

FOR SALE:

One - 220 mc H.B. transmitter - \$15
One - Ameco Conv. -- \$30
One - 220 mc beam 38 E1 -- \$25
Other odds and ends

Contact: W3ZTL, Miles Groce
1010 Sidney St.
Philadelphia, Pa. 19150
247-9260

ARE YOU AN ACTIVE MEMBER

From QRM

Are you an active member, the kind that would be missed
Or are you just contented that your name is on the list?
Do you attend the meetings and mingle with the flock
Or do you stay at home and criticize and knock?
Do you take an active part to help the work along,
Or are you satisfied to be the kind that "just belong"?
Do you ever go to visit a member who is sick
Or leave the work to just a few and talk about the clique?
There's quite a program scheduled that I'm sure you've heard about
An we'll appreciate it greatly if you'll come and help us out.
So come to the meetings often and help with hand and heart.
Think this over, member -- you know right from wrong,
Are you an active member or do you just belong?

MEMBERSHIP

RESIGNED

W3BRU, Frank Benner
523 W. Vine Street
Perkasie, Pennsylvania

NEW MEMBER

K3JJO, Wally Newell
2957 Genter St.
Willow Grove, Pa.

APPLIED FOR MEMBERSHIP

WA2DIL, H. Frank Smith
(sponsored by K3MXM and K3ZPQ)

WA3GNV, John Elmore
(sponsored by K3ZPQ and K3MXM)

WA3IMT, Richard G. Marshall
(sponsored by WA3EPS and K3DUC)

MEETING NOTICES

December 13: Directors' Meeting at QTH of K3GAS, Doc Cutler, 7815 New Second St., Philadelphia, Pa.

December 20: General Meeting, West Oak Lane Jewish Community Center, Sedgewick and Thouron Sts., Philadelphia, Pa.
SUBJECT: Contest Instructions.

NOTE: This is a closed meeting for members only -- secret stuff.

PACK RATS CHEESE BPTS

8533 ALGON AVE

PHILA. PA.
19152



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

MEETING NOTICE

[Handwritten mark]