# PACK RATS CISE





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 XI

OCTOBER 1968

NUMBER 10



At the time of this writing we are just about closing out our outdoor meetings. While I enjoy the outdoor meetings I always look forward to returning indoors because these meetings can offer so much in the way of program variety. As you may have noticed, I said can offer a great variety of programs. The trick is for the Program Chairman to come up with a season of programs that will be attractive and pleasing to the majority of those who attend the meetings. It would be appreciated by the chairman, I am sure, if he received your comments and suggestions, also aid in obtaining speakers if possible. This is just another chance you have to take part in the management of the club's affairs and enjoy the results of your activity. Fellows, its your club - give him the cooperation he could use. There is no one to benefit more as a result of it than you.

I am told your January V.H.F. contest chairman K3DUC, Phil, has an article in this issue so I hope all of you give it your attention and thought. You may be one of those selected for special assignment and I must add the club expects you to accept it. No further comment from this corner. I am sure the chairman will give you the message.

For an afternoon of fun and an opportunity to enlarge your knowledge of antenna technology be at the OTH of K3UJD, Mario, October 13. If you have an antenna on which you have been blaming all your trouble bring it along and put your doubts to rest.

Many thanks to Press, W3MFY, our Vice President for holding our August meeting at his QTH and also providing the refreshments which were very enjoyable. The refreshments and the slides with commentaries by W3CL, Harry, were the hit of the meeting. Again, many thanks Press.

K3HSS, Charley

Page 2 ARRL BULLETINS

PACK RATS' CHEESE BITS is a publication of the Mt. Airy V.H.F. Radio NR 183, August 22, 1968 Club, Inc., Philadelphia, Pa., and Attention DXers. Announcement is published monthly. is hereby made of two additions

DEADLINE FOR ARTICLES IS THE 20TH ing. Cards for Blenheim and OF EACH MONTH.

215 - PI 2-3525

TRUSTEE OF CLUB CALL: W3CCX

AWARDS CHAIRIAN: WZEIF, JOSEPH KILGORE

THE SECOND WEDNESDAY OF EACH MONTH Five Band DXCC award. Only con-

DIRECTORS: W3LHF, DAVID ZIMMERMAN News AR K3KTY, JOHN TATE WOKKN, ERNEST KENAS KOUJD, MARIO FONTANA JUNE QSO PARTY

K3CIV, RALPH HERSH

MEETINGS: FOURTH WEDNESDAY OF EACH 1296 KHZ - K3IUV, Bert Soltoff 2300 KHZ - K3UJD, Mario Fontana MONTH AT 8:00 P.M.

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

These additional Reef and Geyser Reef. Confirmations for contacts only after May 4, 1967, will be accepted for DXCC credit. In addition, the WQ8CBN operation from Nelson's Island will be credited and the Chagos Islands list Reef and Geyser Reef. Confirma-Nelson's Island will be credited towards the Chagos Islands list-Geyser for contacts made after May 4, 1967, and Nelson's Island, EDITOR:

R3JJZ, ELLIOTT T. WEISMAN COLO OF May be submitted for credit starting September 1, 1968 if all other 8533 ALGON AVENUE. OCC. DXCC endorsement requirements are PHILADELPHIA, PA. 19152
met. Further information will appear in September QST AR

NR 184, August 29, 1968 W3SAO, FRANCIS BRICK

COL MID DINDLEY AVENUE

PHILADELPHIA, PA. 19141

215 - DA 4-7524

The Montreal Amateur Radio Club
invites all amateurs in the ARRL
Field Organization to participate PHILADELPHIA, FA. 1211.

215 - DA 4-7524

in the annual VE/W Contest to be held from 2300 GMT September 28 to 0200 GMT September 29. Full details on this popular operating event, sponsored to foster friendly relations between American and Canadian amateurs, appear on page 63 of September QST AR

WZELF, JUSEPH KILGORE

#5 SUNNYBECOK COURT

STRATFORD, N.J. 08084

MR 185, September 6, 1968

A brand new challenge for DX

minded amateurs comes into being DIRECTORS' MESTINGS ARE HELD ON with the inauguration of the ARRL

THE SECOND WEDNESDAY OF EACH MONTH
AT DESIGNATED LOCATIONS.

CODE PRACTICE:

7:00 TO 7:30 P.M. MONDAY THROUGH
FRIDAY, EC.2 MC BY W3CL, HARRY
STEIN.

MONDAY NIGHT NETS:

MONDAY NIGHT NETS:

145.2 7:30 P.M.

Solve Signature of the separate bands to qualify. Full rules will appear in October QST AR

NR 186, September 12, 1968
The Netherlands has extended its reciprocal operating agreement with the United States so that it now includes Surinam prefix PZ as well as the homeland and the Netherlands Antilles prefix PJ. A list of other countries with which the United States and Canada have reciprocal operating agreements with which the United States and Canada have reciprocal operating agreements will appear in the October Issue of QST under IARU News AR

### FRUSTRATION - OR HOW TO OIL A DUMMY LOAD W2EIF, Jo Kilgore

Two years and some months ago a decision was made to procure a dummy load suitable to take the output of our SSB transmitters and even our puny 200 watt AM rigs for six and two meters. An order was placed with the well known "Lunch Box" people and in due time a black gallon; can together with some assorted parts arrived at the QTH. Tools were quickly assembled and construction of the unit was completed. Jan Ipaga, done

It now came to our notice that approximately one gallon of transformer oil would be required before the lid was sealed on the can. References to our many ham friends produced many snide remarks, suggestions for substitution. But no transformer oil - so two years slipped by before you could snap your fingers - and the empty can sate on the bench with what I swear was a sickly smile on its black surface!

Finally, in desperation I worked up courage to call the large nationally known "Wacky: Refinery and made inquiry about their transformer oil - "Yes it was available, in 5 gallon cans" - but I had to pick it up on the only day that I could not do it. Six months went by and I again called "Wacky" Oil Company and a courteous gentleman (who has since been fired) told me that they had the oil and would even deliver the 5 gallon can on the following Tuesday. The due day arrived but no oil - called "Wacky" oil Company and was told that such an order was ridiculous and could I imagine delivery of a 5 gallon can of oil by a 30 ton truck? No I could not, but where in the name of the Petroleum Industry could I get the product? All I had to do, I was to call a small service station (10 miles away), order the oil and they would deliver. Boy, what could be simpler wise I followed instructions and the following week I was the proud possessor of 5 gallons of the precious fluid, and the dummy load was placed in operation. ation.

I went on vacation and upon returning some two weeks later I was approached by my neighbor who informed me that I owed him \$4.00 for a can of oil delivered by "Wacky" Oil Company who had run a 30 ton truck into the court where I live three separate times and finally begged him to accept the damned can for mell! I now have nine gallons of perfectly good transformer oil for sale to anyone with empty dummy loads! The Lugger

Tenn. - The object of the second of the seco

## ODE NOTE FROM THE TECHNICAL COMMITTEE

The Technical Committee as constituted by the President, K3HSS, consists of W2AXU, W2EIF, K3IUV and W3LHF. This committee is for the benefit of all the club members. Many of the members do take advantage of this committee by asking questions of the members and they , do get them answered.

Now the committee knows there are questions and problems of a technical nature bothering some of the club members and it is their desire to assist? The committee can't affect repairs to your rigs but they can assist you by remote control.

Therefore, the Technical Committee would like the club members who have technical questions or problems that are not of an immediate nature to submit these in writing to anyone on the Technical Committee or to the Editor of CHEESE BITS. They will all be answered and any of the questions of a general nature will be printed in CHEESE BITS. 1-1-6-200.73

haw loo yalda: DECEMBER OF BUILDING This does not preclude the continued personal contact with the Committee. It is a way of making it interesting for all. have been

It's up to the club members to make the Technical Committee work.

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This up to the Club members to make the Committee Commit

# TRANSMITTER HUNTING - FROM THE INSIDE LOOKING OUT!!! K3MXM, Lee Cohen

Finally, after two years of chasing over the hills of Bucks County and through too many farmers pastures, the team of Candy (WA3CND), John (WA3ERO) and Lee (K3MXM) were first to find the transmitter on six meters and with its went the honors of hiding it for the next hunt.

After much thought and consideration, something a little unusual was decided upon - why not utilize one of the members QTH. A scan of the membership list and it was decided to use the grounds of Don Cooper, K3WGK. Permission was granted and we had a real nice spot - not too far outside the boundries, on the side of a hill, a good wooded spot and a nice thick full thicket next to two dead end roads. A real honey of a place to hide the transmitter.

Now the preparations - got enough co-ax, will the batteries hold out, how about an extra charge, got a map, field glasses, compass. Gad, don't these preparations ever cease. Never knew there was so much work when you come in first. It is so much easier to put a Hilltopper on the car roof and take off for a couple hours these Sunday afternoons as a hunter and not the hunted.

as a hunter and not the hunted.

H for Hunt Day arrives: A quick look out the window to check on the weather. I hope that cloud up there is not a rain cloud. Better check with the weather bureau. Yep, okay - that's one less worry for the day.

While loading all the equipment into the car one of my neighbors comments I look like an Oakie taking off for the green pastures of California. A sick smile and a quick remark that this is my pride and hobby...ho ho ho.blue

Meet Candy and his sony Howard, at the appointed spot and then off to the site. It is starting to get warm or I should say hot. Park and hide the cars and then start toting the materials into the woods.

About a dozen trips later the forest floor has the look of a supply dump of the Marine invasion of two radio equipment, wire, batteries, several cases of liquid goodles and food for the kids.

Howard made guick work of hoisting the antennas to the highest cak trees. Thest the rigs, they seem okay and we are now ready for business. Forgot a transistor radio to get the correct time so will have to trust the wrist watch that varies with the heat of the day. A couple minutes more or less off won't matter too much - we hope.

One p.m. arrives - push the buttoms and plugs and W3CCX/3 is on the air and the transmitter hunt is finally under way.

Don't forget the I.D. every 10 minutes and throw in a couple clues.

An hour passes of the day gets hotter and the pile of empty cans grows.

An hour and a half passes - the day gets hotter and the pile of empty cans is getting higher.

They better find us soon or all the cans will be empty, then what do you do. Now I know why they said bring full cases.

Wonder how many teams are out there looking for us, wonder if anyone is out there looking for us, wonder if the transmitters are putting out a good signal. Would feel awful silly if no one came around what report could be made on the Net Monday night? About ten minutes before three o clock and the ending hour Howard, who had stationed himself as a lookout in the trees, let out a whistle that there was a car in the driveway and a fellow was getting out and he had an antenna sniffer with him. Someone was in the area and closing in.

We all drop to the ground and hide ourselves.

The bushes rustle and part, twigs snap and Walt Bohlman (K3BPP) with his two nephews come crashing through the underbrush and walk right past us toward an abandoned builders shack. One of his nephews looking around the area shouts out "there's a beer case" and that is how the transmitter hunt ended. We were found out by an empty beer case.

Continued on Page 5

Page 5
TRANSMITTER HUNTING - FROM THE INSIDE LOOKING OUT!!! (Continued)

Seemingly on Walts heels, El (K3JJZ) and his partner Al (K3EOD), just under the deadline, came through the thicker.

Three o'clock and call in time and in came Doc's car piloted by Missian XYL Loretta with club prez Charles (K3HSS), Carl (K3DLS) and Paul (WA3HIT) all riding shotgun.

K3MXM, Lee

MAJERS:

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JIMUS A.F

ALGS A

THE RAT CORNER - SEPTEMBER 1968
WA3BIV, Carl Barish 1987

KBBPP

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Now that summer is giving way to the beautiful colors of autumn, the ham's outdoor life moves inside and he may renew old acquaintances on the air or start a project related to ham radio. If the adventure of a project appeals to you, one of the best places to start is your club. A club project can be most rewarding if undertaken enthusias—tically with other members of the club.

One such club project that is usually met with enthusiasm is a club intercom. The Pack Rats have an intercom on 221.4 megacycles and it is affords an easy and pleasurable method of exchanging views, passing comments, and swapping information with other members of the club. In order to start a club intercom, some theoretical groundwork must first be laid. Of primary concern is frequency. The frequency must have propagation such that it covers the QTMs of all the members and be relatively free of annoying signals. Secondly, inexpensive equipment in sufficient quantities must be available. Finally, antenna space must be minimal.

The VHF bands provide for all of the above important parameters, plus of some desired advantages. Six and two meters have large unused portions that lend themselves readily to intercom use, especially above to some above 146 mc. Common coverage exists of 50-75 miles withink low power and small antennas on six and two. The 1 1/4 meter or 220 mc. band (being little used) provides more freedom from QRM and QRN; however, coverage is not as good.

For the lower VHF bands, small AM transceivers are very common at low prices; however, the experimenter or builder will find cost quite minimal. Equipment on 220 mc. is invariably all surplus or home brew. If the clubils also interested in a building type project, 1 1/4 000000 meters is ideal.

220 mc. affords the smallest antennas of the three bands thus far(1) described; however, antennas for six or two meters are much more common. And remember: building VHF antennas requires no exceptionally large area and can prove to be a worthwhile undertaking.

The equipment used by the Pack Rats for their club intercom consists of converted R-48 surplus receivers bought for prices up to \$25, transmitters from surplus beacon rigs purchased for about \$10 including tubes, and commercial antennas costing \$15 at most. There are, of course, commercially built transceivers for those willing to spend somewhat more money.

A VHF club intercom also creates a closer tie between club members, an enjoyable operating faculity in addition to those already utilized, and a more private means of communication with a number of other club members at the same time. The Pack Rats' frequency on 1 1/4 meters is private enough for passage of some important club information. Not only that, the recipe for that delicions chocolate layer cake eaten at the last hamfest caff be obtained from a cooperating XYL without excessive use of the twisted pair!

73, . describily.
WA3BIV, Carl
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OHER 1/ 1969 V.H.F. SWEEPSTAKES CONTEST January 11-12, 1969 valued abla ac light a

CHAIRMAN: K3DUC, Phil	· orange in the second		K3HSS, Chas
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# COORDINATORS AND TEAMS: Let the Tenneth Aguar there in an array sol lake

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WB2OAD*	K3KKN*	W3CJU*	K3ZPN*
W2AXU	WA3EPS	КЗЕРВ	K3KTY *
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WA2JNA	WASEND AT A TEST	кзаа	W3PST
K3BGT/2(r)	W3CXU	w3bah	W3OZP
W3CAG*	W3SMK	W3BRU(r)	W3ZRR
K3GQJ ac grave Learney	K3TPM		WASHEZ
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	** T T ****	K3MXM
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W3CL dr. and in aroun W3HFY	W3LHF	K3ZKO
W3BQU Attomorphy by Lso K3DUC	W3JSD	K3DLS
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K3NMN(r) M3BVR(r)	W5NFD/3	WA3JSR:
K3DUC WA3GNV	W3GEC(r)	Ðrf.

KOZZM/3 Tollement to	WA3ERO	K3HSS	WA3BIV
W3HKZ*		K3OBY*	K3LNV*
W3RZU(r)	WAJBRV	WASHIT	W3QAS
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W3JAY(r)	I W3HK	72 PITE (~)	K3QFQ(r)
K2RTH/W3ANW(r)	W ZMX712	K3ESL(r)	K3EHQ(r)
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# COORDINATORS MEETINGS:

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non 2nd	Meeting	3rd M	eeting -	4th Me	eting
Nove	mber 12	necem	ber 10	Januar	cy 18
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dots the state of considering the New LOOK? The property of the state To As you no doubt have noticed, this issue of CHEESE BITS has a new front page format. As you also probably noticed, the drawing on the front page of the last issue of CHEESE BITS didn't print very well. Up to now our front page drawing had to be traced for each issue. The drawing on this issue has been duplicated through the good graces of K3ZPN, Lloyd Schoenig.

fast vy. During the coming months we will experiment with several different front page formats. How about voting for the one you think is best.

# CONTROL AND STATE LETTERS OF THE STATE OF TH K3030. mario Fontana

The following post cards were received by W3CL, Harry Stein, from The Mt. LTV v.H.F. Radio 11 will conduct 1 V.H.F. Antenna Geess and ment Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER on Suppose Material Contest at the OTE of LHER ment Contest at the OTE of ... 3UGD on Sunday, October 1, 1968 at 12 o'clock. This contest is open to club membeleet ... This contest is open to club membeleet did are a revo Over here with the Aga Khan and Regards from both of us to you and enthe Pack. The inequation of the peace of the policy of the pack of the pack

Over here to check on the Appian Way since Welsh Road is in such to poor condition. Met Shirley Temple in the Cata Combs.

73 to all the boys. UR man in Roma.

Averda will be given tor whe best artumed on wach 8881, . e. the Standard of the control of the Ovor here helping to restore some of Michelangelels work. Regards to all.

ornale subbiti UR man in Florence.

September 10, 1968 Had to come over here to put a guy wire on the leaning tower. See Camb conge Vanbyke sketch of wire.

73 to all. UR man in Pisa. The state of the September 13, 1968 the bion file of the boys will be excited. excited. For the coincident young a marke your as a found of the country of the control of the country of the control of the country of the c

September 16, 1968

Over here to fix Big Ben. All it needed was some Yankee ingenuity and 3 in 1 oil. I thought Italy was fouled up but it's worse here. i co sapu j refue hádete.

73 to all. UR man in London.

The following letter was received by K3JJZ, Elliott Weisman:

1. Philid. . Jourdy ameters mis reut I know very often one who tries to do something, and very often a thankless job such as editing a club paper which no one else will do, gets bricks thrown at them, very often for some minor omission or error. - eJq£evi kiri

year How Jank Design This time I wish to compliment you on the last issue of Pack Rats, September 1968 - yes, the Cheese Bits.

I feel that this was one of the best papers I have received from any of the clubs, and I receive many each month. You are to be congratulated for this issue and others I have been receiving from you. Your club should feel honored to have an editor such as you.

A A KEVILE LLIS Gilbert L. Crossley, W3YA A the live syet koolDirector, Atlantic Division ont con The American Radio Relay League, Inc. 734 West Foster Avenue Collaboration State College, Pennsylvania 16801 this issue a 10 and poi by boland 6. Herkinger keyke - 190b, Batty Stein

Character and Control State

Dear Gil:

Thanks very much for your letter of the 15th. As you no doubt well know, a coaching job is easiest if you already have a championship team. I feel fortunate in having such a team. May I have permission to reprint your letter in CHEESE BITS?

El, K3JJZ

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# THE ANTENNA MEASURING CONTEST K3UJD, Mario Fontana

The Mt. Airy V.H.F. Radio Club will conduct a V.H.F. Antenna Measurement Contest at the QTH of K3UJD on Sunday, October 13, 1968, starting at 12 o'clock. This contest is open to club members and friends. K3UJD will set up an antenna range consisting of an R-F source at one end and a motor driven 1 1/2" shaft geared to a pen recorder at the receiver end which will display your antenna pattern. You supply the antenna, we will give you the antenna radiation pattern. Frequency bands of interest will be 50-144-220-432 and possibly 1296 MC.

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Awards will be given for the best antenna on each band. Dust off your home-brew or manufactured antenna and bring it along.

K3UJD, Mario

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# PHILADELPHIA COUNTY ARPSC W3HK, George VanDyke

Philadelphia County ARPSC needs a boost! We need ideas! What can we do to get the meetings going again? What do we need to spark interest in the nets? What kind of drills will hold members' interest?

ARPSC is like any other emergency organization; it is not given much attention until needed - then sometimes it is too late. At least its too late to train when an emergency occurs.

We have a meeting place (it's free, too) and it is fully equipped with radio. We have many active mobile stations and additional fixed stations. We can get training or entertaining films, and a few individuals are willing to supply refreshments.

What then is the missing link?

entifications are subvas

Could it be the Philadelphia County amateurs are really not interested in public service - or at least not this kind? I sure hope not and would like to see as many as possible come out to our next meeting for a full discussion and development of plans for the future.

Let's make Philadelphia County ARPSC what you want it to be, and have fun at the same time.

73, W3HK, George

# BOOK REVIEW NETS

K3WEU, Paul Behrmann informs us that Book Review Nets will begin on Tuesday, October 15 at 8 p.m. local time at 50.2 Mc. Some of the books scheduled for review include:

V.H.F. Ham Radio Handbook by Edward G. Mackinnon Reviewer - W3CL, Harry Stein

Fundamentals of Integrated Circuits by Lothar Stern
Reviewer - W3HK, George VanDyke

Crisis in Black and White by George Silberman
Reviewer - K3WEU, Paul Behrmann

Ham Radio Magazine and some of its articles Reviewers being assembled Conducted By: W3ZRR, Ray Whitehead 4534 N. Smedley St. Phila., Pa. 19140 215 - 324-5910

#### FOR SALE

- RCA WR-61A Color Bar Generators @ \$10.00

- 30' RG-8U \$5.00

- Philco Channel 4 TV Transmitter complete and operating \$20.00
- AMECO TX-86 Transmitter 80-6 meters, 90 watts AM & CW
- RCA Universal Power Supply
- \$10.00 - APX-2A (good for 1296) \$15.00
- 2 Meter Dummy Load \$5.00 - Speech Compressor \$10.00
- 24 Hour Clock \$5.00
- GE 10 Watts FM Industrial Radio (good for 2M FM mobile) \$25.00
- RCA CMV-10 450 Mc. FM XCVR (presently on Philadelphia police frequency) \$10.00
- Kilowatt Linear Amplifier and Power Supplies (for 15-2 meters)
- \$30.00 Philco Scope \$20.00

CONTACT: WB2RVE, Bob Spain
R.D. 2, Box 532
Blackwood, N.J. 08012
609 - 227-4191

#### FOR SALE

- Complete V.H.F. Station Transmitters, Receivers, Antennas and Tower

CONTACT: K3IPM, Stanley Smith
133 Hogeland Road
Southampton, Pa.
EL 5-2867

#### FOR SALE

- 4 EL Cushcraft 6 M Antenna with Balun \$10.00 CONTACT: WA3CND, Howard Candy 4013 Benson Street Philadelphia, Pa. 19136

MA 4-6812

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# MEETING NOTICES

The next DIRECTORS MEETING will be held on Wednesday, October 9, at the QTH of K3UJD, Mario Fontana, 600 West Bristol Road - that's in Ivyland you know.

The next GENERAL MEETING will be held on Wednesday, October 16, 8 p.m., at the West Oak Lane Jewish Community Center, Sedgewick and Thouron Streets, Philadelphia, Pa. The topic for the evening will be V.H.F. Converters - WB2EGZ, Don Nelson.

## LADIES NIGHT

Ladies Night Chairman, K3KTY, John Tate, announces that Ladies Night 1969 will be held on Saturday, April 19 at the Buck Hotel. K3UJD, Mario Fontana, would like whoever borrowed his code tapes to please return same so that someone else might have the benefit of their use.

K3KTY, John Tate, can't figure out why his Swan power supply blows the line fuses even after the factory rewired it.

WA3BIV, Carl Barish, complained about his name being spelled wrong in CHEESE BITS. Unfortunately he never signs the articles he writes. Wait till you read what he writes about "white elephants".

Monday night, September 9, was alternate net control night. K3ZPN, Lloyd Schoenig, operated the 6 meter net in place of W3CL, Harry Stein. WB2SZK, Randy Bynum, operated the 220 net in place of K3GAS, Doc Cutler. A job well done by both.

A proposal has been made to increase the annual membership dues. If you want to express your opinion, attend the October meeting.

WA3BRV, Harry Hover, is the new chairman of the refreshment committee.

K3WEU, Paul Behrmann, was the subject of a feature article in the Philadelphia Jewish Times of September 5, 1968.
The article detailed Paul's activities in traffic handling and specifically handling of Rosh Hashonah greetings for Jewish GI's.

Philadelphia police purchased a 1951 35-foot bus for \$1,750 and spent \$6,000 renovating it into a mobile communication center for use during floods, hurricanes, storms, riots, parades, etc. The renovated vehicle contains communications gear, public address equipment, telephone connections, power sources/ connections, kitchen facilities, air-conditioning, typewriters, lounge, etc. Perhaps they got the idea from the W3RQZ mobile communications van. DE LERC Bulletin

#### De Ham Monitor

ALIMONY is the same as paying monthly installments on your transmitter - after the final has gone soft.

AN expert says we're headed for another ice age in about 15,000 years. Doubtless you'll find some nut putting up an antenna about that time.

K3IUV TAKE NOTE!

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