

# PACK RATS



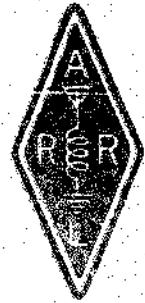
**PACK RATS**

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

# CHEESE

# BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILADELPHIA, PA. ARNS  
(50.2, 145.2, 221.4, 432.03 & 1296.3 Mc)

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE  
MEETINGS: THIRD WEDNESDAY OF EACH MONTH AT 8:00 P.M.  
WEST OAK LANE JEWISH COMMUNITY CENTER  
SEDGWICK AND THOURON STREETS, PHILA., PA.

VOLUME XV

JULY, 1973

NUMBER 7

### THE PREZ SEZ

Greetings for the month of July and well wishes for Summer. I would like to thank all those who came up to the Hilltown site to participate or watch at the June VHF QSO Party. It sure was an enthusiastic effort and also a lot of fun. Many thanks to the Chairman Tony Souza, K1SFF/3 and his well oiled team for such a fine performance. I also would like to thank the other members of the expeditionary force, W3CJU and WA3NFV (welcome back Dan).

This being my last Prez Sez article I would at this time like to thank all of the other members who chaired or served on other committees; you made my job much easier.

It sure has been an interesting and informative year. My best wishes to the next group of club officers.

73,

Walt, K3BPP

\* \* \* \* \*

We recently learned of the death in April of one of our senior members. Ralph Hersh, K3CIV. Ralph joined the Pack-Rats in the early days and contributed materially to its stature and advancement. He served a number of terms on the Board of Directors and held the post of recording secretary for some years. We offer our condolences to the Hersh family which includes Pack-Rat Ellis, W3IXL and his XYL Lillian, K3JOD.

New Member: WA3AXH Thomas A. Scheid, XYL Catherine  
1000 Pine, Norristown, Pa. 19401  
215-539-7964

Application for Membership: WA3JUF, David Mascaro  
518 7th Ave. (2nd Fl)  
Warminster, Pa. 18974

Membership - Change of Status  
K3EPB-Howard Fretz, Retired  
K3ZCY-Edward Barbacow, Resigned  
Dropped from Membership:  
WA3GNV-John Ellmore, Jr.  
K3WEU-Paul Behrmann  
K3YPL-Nicky Behrmann

Visitors at the June 20th Meeting:  
K3ACR-Rich Pattison, Wyncote, Pa.  
WA3JUF-Dave Mascaro, Warminster, Pa.

K2QOS-Mike Fekete, Trenton, N.J.  
Morton Sirisky  
WN3SZD-Dennis, Phila., Pa.

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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 THE PROPER CREDIT IS GIVEN.

\* \* \* \* \*

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

SWAP SHOP ITEMS - NO CHARGE

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

<u>MONDAY NIGHT NETS:</u>	<u>NET CONTROL</u>
145.2 - 7:30 P.M.	W2EIF
50.2 - 8:30 P.M.	W3CL/W3GEW
221.4 - 9:00 P.M.	K3GAS
432.03 - 9:30 P.M.	K3IUV
1296.3 - 10:00 P.M.	K1SFF/3

<u>FRIDAY NIGHT NET:</u>	<u>NET CONTROL</u>
439.250 ATV NET -	K3ZKO/WA3AXV
19:00 HRS.	

# A 5

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CALENDAR OF COMING EVENTS  
Syllabus by Lee, K3MKM

JULY

- 11 Board of Directors Meeting QTH, K3IPM, Stan Smith, 133 Hogeland Road, Southampton, Pa. 8:00 P.M. Directors and interested parties invited.
- 18 FIRST OUTDOOR MEETING OF THE SEASON  
Outdoor Club Auction - QTH - W3ZD, Dave Zimmerman, 520 Centennial Road, Warminster, Pa.  
Clean out your shack and help move those goodies along so they can spend the winter in another shack. Pass the word around and invite other clubs and club members to attend. It will be good evening to be there to either buy, sell or just have fun watching these goodies move along. Guessing contests and refreshments.
- 21 & 22 Space Net Contest - 6:00 P.M. your local time to 6:00 P.M. Single or multi-op category. Club participation. Trophies, first and second place. Four (4) power classes. Each QSO = 2 points. Each different zip code = 1 multiplier. Each contact on different VHF bands counts as 2 points. Zip code, however, only counted once. All modes except repeaters. Come and join the fun. Send in your logs for the Pack-Rats and make it number one twice in a row. Mail to = Tony Slapkowski, WB2MTU, Director  
Box 909  
Sicklerville, New Jersey 08081

AUGUST

- 5 Winchester Hamfest - Winchester, Virginia
- 5 WAZ1TM reports that the East Coast VHF group is again sponsoring an antenna measuring contest (432 Mhz and up) at the campus of Trenton State College, West Trenton, N.J. Bring the family and a picnic lunch. Tailgate selling (no charge)
- 12 Pack-Rat Picnic - Ft. Washington State Park, Flourtown, Pa.  
The picnics get bigger and better each year. Mark a red ring around the date and be sure to attend. Games, contest and fun for everyone of all ages from the wee kiddies to these elders with the expanding real estate.
- 15 Second Outdoor Meeting - QTH - K3IUV, Bert Soltoff  
Old time movies and film nite. See the slides from way back when, Special running commentary by our own W3CL. Be sure and bring the XYL or YL along for a pleasant evening under the stars.

Don't forget that OCTOBER 7TH is the second Pack Rat HAMARAMA!

\*\*\*\*\*  
IT HAPPENED AT HILLTOWN  
BY K3JJZ, EI

K3ZSG returning to the FM site with a 10 amp fuse because he couldn't find a 7.5 amp one which blew.

K3ZKO asked "what are you going to do with that". K3ZSG replied I'm going to put it in the 6 meter FM rig. I can't find a 7.5 amp fuse to replace the one that blew. K3ZKO smiled and said the 7.5 amp fuse that blew is the one that I put in when the 1 amp fuse blew.

TID BIT

Our friend Bob Palmer, G5PP of the Midland Amateur Radio Society (Birmingham, England) is scheduled to make a presentation on "Chassis Bashing" on July 17th.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. FM Transceiver 432-450 Mhz: The new ICOM IC-30 is a twelve channel all solid state rig for the UHF segment 432-450 Mhz. (2 Mhz spread on transmitter, 5 Mhz spread on receiver). The transmitter can be run at either 1 watt or 10 watt levels and is supplied with 449.1 transmit and 444.1 receive. Unit built by Inoue of Japan. Icom East, Box 331, Richardson, Texas 75080.

2. Two Meter Converter: Janel Co. has introduced a new converter, the 144CC. This is a lower priced version of the 144CA, which unlike the new unit has a built in AC power supply. Like the higher priced unit the 144CC is built into a cast aluminum box. Operation is from 12 VDC. Noise figure is between 3-5 Db. Price \$49.95 Janel Labs, P.O. Box 112, Succasunna, N.J. 07876.

3. VHF Wattmeter: The Heathkit HM 2102 direct reading wattmeter is calibrated for two ranges, 25 watts and 250 watts. Unit is rated at 10% accuracy using a 50 ohm load. Hams can use the unit on 6 or 2 meters as it covers the range 50-160 Mhz. Input and output coax fittings are SO239 UHF. SWR bridge is built in for checking antennas. Price, \$30.00. Heath Kit Co., Benton Harbor, Michigan 49022

\*\*\*\*\*  
VHF/UHF REPORT BY JOE, W2EIF

The June QSO Party has come and gone and those that participated in it certainly should be proud of their efforts.

The 6 and 2 meter bands were not up to par with the openings on six being poor. The two 14 hour periods of the contest certainly are not conducive to VHF activity in general and there were gaps noted because different groups shut down at selected times in order to take advantage of some later expected propagation condition. The day was saved, however, by the appearance of an aurora on Sunday afternoon June 10th. The aurora was effective up through 220 Mhz. I was able to work all sections that I heard including Michigan, Ohio, and Indiana. The band conditions for the past four weeks up through the middle of June have not been anything but normal with no openings of any consequence being noted. It is hoped that the period involving the week of June 21st will produce some sporadic contacts on 2 meters. So if you can get on 2 meters, particularly at the low end, watch for very short skip (200/300 miles) on 6 meters. This is usually a tip off that something is happening on 2 meters also.

\*\*\*\*\*  
ARRL VS. FCC

In the June 1973 issue of CQ Magazine, there appeared an unsigned article which blames the ARRL for confronting the FCC concerning excessive rule making for the Amateur Radio Service. CQ is in the business of selling magazines and does not represent Amateur Radio. If the magazine went out of business tomorrow, its so called policies would disappear along with it.

I am always suspicious of authors who start out by telling one that these problems must be approached unemotionally. One would think that the author of the CQ article who refuses to give his name, is sitting on an iceberg, and is the only unemotional character in ham radio. Who is he kidding? He wouldn't be writing the article unless he was disturbed about the situation.

ARRL VS. FCC  
CONTINUED

In these days and times we are overwhelmed by bureaucratic offices which to a lot of us are created to impede progress of any kind. There are times when written appeals and legal recourse have to be abandoned, if you don't believe it read the newspapers -- it happens every day. It is not necessarily required that we take to the streets and barricade but it certainly does no harm to raise ones voice loudly when being stepped upon.

The CQ author goes to great length to illustrate the process by which the FCC works, citing levels of ABC --- to M.. It is noted that the authors and any interested party can then make comments at levels G and later at level M., which seems to this person as rather well down the chain of events and possibly after the fatal decisions have become entrenched in the minds of the commission.

The unknown author admits that the FCC has made some blunders but seems to think this should be the accepted thing and that amateur radio should accept this as gracefully as he does, why? When something is wrong and stinks why should it be covered up to preserve the stature of the FCC? I am of the opinion that the learned author, if he had existed at the time of the American revolution would have been found at Bunker Hill exhorting the American troops not to fire, but talk thins out because the British were there legally. The CQ author's vigorous defense of the FCC leads one to believe that he has many friends there. (I can hardly believe otherwise since he is so well informed of their methods)

As amateurs, we pay fees to the FCC for licenses, revisions, etc. These fees along with those of the CB group go directly into the U.S. Treasury. The money allotted for FCC use is probably only a small part of what is taken in. Certainly if the amount of money paid to the FCC by licenses wer to be used to up grade the FCC monitoring services, such as bringing it up to date with computer access and other modern equipment, we would have one of the most efficient monitoring and regulating services in the world. There would be no need for regulations advocating special license calls for various amatstur categories, or other regulative type of regulations advance simply because the FCC is so obsolete in equipment that it cannot properly monitor the frequency spectrum. A case in point - for many years the FCC refused to let the hams transmit RTTY at any speed other than 60 Words Per Minute simply because their monitoring equipment was so obsolete that 60 Words Per Minute was all they could copy! Another senseless rule - The FCC requirement that complaints, requests, etc. be submitted as the original and 14 copies. In these days and times of duplicating machines in government offices, this constitutes nothing more than a device to discourage any interested parties not having the copy machines from making any comment!

Now our unknown CQ author would have us believe that the ARRL has really kicked over the traces all by itself. When I encounter speeches such as given by Prose Walker of the FCC at Rochester this year, one begins to wonder if the ARRL isn't a little too soft even yet. Mr. Walker left no doubt in the minds of many amateurs that the FCC doesn't consider the ARRL as representatives of the amateur even though its paid up membership is 1/3 of the total number of amateur licenses in the United States. He also left no doubt where his interest really lies, with regard to rewards for the CB group. Their lack of strict observance of FCC rules, and unorthodox operating practices seems somehow to come out as really the fault of the amateur..

I could go on and on but suffice it to say the CQ article does Amateur Radio a disservice in that it only encourages the division of amateur radio for whose benefit one can only guess.

Jo R. Kilgore, W2EIF

OFFICIAL BULLETIN NR 429 FROM ARRL HEADQUARTERS NEWINGTON, CONN. JUNE 7, 1973 TO ALL RADIO AMATEURS BT

Creation of a Class E Citizens Radio Service has been proposed by the Federal Communications Commission in a notice adopted June 6. It is suggested that the frequencies 224 to 225 MHz be withdrawn from the amateur service to create forty new CB channels. FCC seeks detailed comments on what activities should be permitted in such a service and what regulations should govern, with particular interest in enforcement procedures. This rulemaking proposal arises from RM 1747, filed two years ago by the Electronics Industries Association, and five other requests which FCC felt to be in the same basic area: RMs 1633, 1656, 1761, 1793 and 1841. Amateurs and clubs will undoubtedly wish to file official comments directly with FCC after reading the full text of the proposal in the August issue of QST. The deadline for comments is September 20. However, League members may want to inform their division directors of their initial reactions, prior to the ARRL Board meeting July 19. Names and addresses appear on page 8 of 1973 issues of QST. The headquarters seeks information on present and planned amateur use of the entire 220-225 MHz band with as much statistical information as possible. AR

OFFICIAL BULLETIN NR 430 FROM ARRL HEADQUARTERS NEWINGTON, CONN. JUNE 14, 1973 TO ALL RADIO AMATEURS BT

FCC has granted the ARRL request for a 60-day postponement of the comment date in Docket 19723, the RACES study. This makes the new date for comments by interested parties on or before September 4, 1973. Details on the docket appear starting on page 78 of June QST. AR

OFFICIAL BULLETIN NR 431 FROM ARRL HEADQUARTERS NEWINGTON, CONN. JUNE 4, 1973 TO ALL RADIO AMATEURS BT

The new edition of the ARRL Repeater Directory, detailing 718 United States and Canadian repeaters, is now ready for distribution. To receive your copy unfolded by first class mail, send an addressed envelope larger than 6 by 9 inches with 24 cents U.S. postage. This membership service is available without charge from ARRL, 225 Main Street, Newington, Conn. 06111. AR

\* \* \* \* \*  
HELP! HELP!

A mathematical study of the E-Layer propagation of VHF signals has been started. This study is under the direction of Mel Wilson, W2BOC/WIDEI, who is well known for his long-term work on this phenomenon and for his excellent articles on the subject in December, 1970 and March, 1971 QST. The study is currently concentrating on a single day, November 8, 1970, a date on which extensive E<sub>s</sub> propagation was observed. Although many observations for this date have been reported and documented, additional data is required to complete the statistical work in progress. Please help us get the required information by digging out your station log for 11/8/70 and collecting the following for any "DX" stations heard/worked on 50 MHz and above:

- (a) Local time when a "DX" station was heard/worked.
- (b) Your station call and QTH. (City and State)
- (c) Band used.
- (d) Call of station worked/heard and QTH (if known).
- (e) Time QSO ended.

Then please send the information to: W3FQD, 130 Fairhill Drive, Churchville, Pa. 18966 (215-357-2960)

Thanks, Dick  
\* \* \* \* \*

LADIES NITE 1973

A belated report on the Pack-Rats Ladies Nite held at the Buck Hotel in May. Fifty-seven Pack-Rats and their ladies were in attendance. A fine meal was served, and due to the efforts of Lee, K3MXM we had an fb one-man (oops! one lady) band later assisted by Herm, 3G0Z on his famous Mumpers Day String Band Mandolin. K3IPM was presented with a grinning replica of a "Fat-Rat" marked No. 1 (Stan received his Jan. VHF SS Certificate the other day). Joe, W2EIF made beautiful ceramic plaques (under the direction of XYL Susie) for the Monday Nite Net Control Stations. The man of the year award went to B3ZD, Dave Zimmerman. Thanks to John, K3KTY and Doc, K3GAS for a swell affair.

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<p><b>ham radio</b> the most interesting amateur magazine: 1 Year \$7.00; 3 Years \$24.00 HAM RADIO MAGAZINE Greenville, N. H. 03048</p>	<p><u>A request from your AD Manager</u></p> <p><b>PATRONIZE OUR ADVERTISERS</b> Tell them you saw their ad in <b>CHEESEBITS</b>. Leave your QSL card with them. <b>CHEESEBITS</b> is one of the best read local radio club papers. Circulation - 300</p>	<p><b>73 magazine</b> for radio amateurs PETERBOROUGH, NEW HAMPSHIRE 03438</p>

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Collins 30L1 - Linear, \$375.00

**Contact:**

Martin Shapiro  
1138 Boxwood Road  
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**Contact:** Will Power, WB2OAD  
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AMATEUR RADIO EQUIPMENT



**PACK RATS**

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JULY 18, 1973

8:00 PM

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Signal Corps BC348-A.C. Power - \$39  
HQ 129X - \$45  
Hallicrafter S71 - \$69  
Realistic DX150 Solid State - \$75  
Hallicrafters SX42 - \$99  
HQ 100 - \$99.95  
HQ150 - \$119  
Hammarlund HQ145 - \$139  
Collins R390 & Cabinet - \$425

### H.F. RECEIVERS - HAM BAND ONLY

Tex Tec RX10 - \$49  
Hammarlund HQ110 - \$89.95  
National NC270 - \$110  
Drake 2B - \$159  
National NC303 - \$169  
Collins 75A2 - \$179 & \$159  
Heath SB300 with 3 filters - \$210

### H.F. TRANSMITTERS

Heath ATL - \$19  
Hallicrafters HT40 - \$39  
Globe Chief 90 - \$25  
Harvey Wells TBS50D & VFO - \$39  
Heath DX60 w. Coax Relay - \$49  
Heath DX100 - \$59  
Heath DX60B - \$59  
Heath Apache - \$89  
Johnson Valiant - \$99  
Eldice - SSE100A - \$125  
E & W 5100B & 51SB - \$149  
Hallicrafters HT32 - \$169  
Heath SB400 - \$249 alone or \$225 w. SB300  
Heath SB401 - \$249

### LINEAR AMPLIFIERS

Heath Warrior, not guaranteed - \$119  
Heath Warrior - \$150  
Hammarlund HXL - 1 - \$225  
Hallicrafter HT33A - \$259

### H.F. TRANSCEIVERS

Heath HW16 - \$75  
Heath HW32A - \$75  
Heath HW12 - \$75  
Heath HW22 - \$75  
Heath HW18 SSB (MARS, CAP) - \$79  
Rice 753 & P.S. - \$99  
HEE SB33 AC/DC - \$199  
Galaxy V w. AC Power Supply - \$285  
Drake TR3 w. P.S. & Spkr. - \$395

### V.H.F.

2 & 6 Meter Converters - \$15 - \$69  
Heath Sixer - \$19  
Motorola Tube Type Receiver w. Crystal for  
146.76 MHz - \$19  
Heath Twoer w. push to talk - \$22  
GE Handy Talkie - Similar to Motorola P33 - \$49  
Dycem 2 meter Amp. for TR22, 15 watts out - \$49  
Clegg 99'er (6m.) - \$59  
Amecc TX62 - (6 & 2) - \$69.95  
2 Bendix 2 meter F.M. units; 1 Portable,  
1 Mobile/Base with books and Ham Crystals  
Both units - \$69  
Lafayette HA750 w. battery pack - \$75  
Motorola T44 450 mc with head, ant., touch tone,  
crystals for Warminster Repeater - \$79  
Heath Shawnee 6m XCVR - \$99  
Clegg Venus 6 Meter SSB Transceiver & Eice A.C.  
Power Supply - \$199  
Clegg Interceptor Receiver - \$220  
Standard SRL46A 2 Watt Handie Talkie with charger  
and built in touchtone - \$325  
Collins 62S1 Transverter (6 & 2) - \$499  
Galaxy FM210 2m FM with Power Booster - \$139

### TEST EQUIPMENT

HP 200B Audio Oscillator - \$29  
Precision E-200C Signal Gen. - \$35  
BC-221 Freq. Meter - \$49  
Heath Lab Scope - \$59  
Lampkin 185B Freq. Meter - \$59.95  
Heath 10-18 Scope - \$89

### MISCELLANEOUS

Clegg 011 Power Supply; 14 Volt, 6 AMP for  
27B, etc. - \$65  
Lafayette Metered Power Supply 5-20V, 0-2AMP - \$39  
Hammarlund HC10 L.F. Converter - \$75  
Johnson SSB Adapter - \$69  
Eldice SBA-1 SSB Receiving Adapter - \$29  
Viking 8 Track Recording Deck - \$79  
Car Tape 8 Track Car Player - \$69  
Altronics Howard Mod. Teletype Converter - \$125  
Heath HD15 Phone Patch - \$25  
ESCO Teletype Modules - \$30 to \$50  
Galaxy RF 550 Wattmeter Console - \$49  
Vibreplex Key - \$13.95 - \$14.95



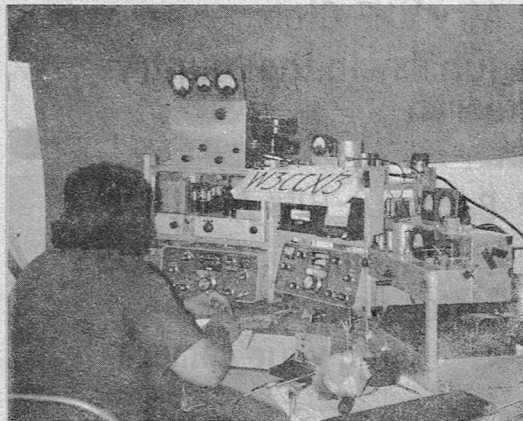
DAVE, W3ZD - RON, WA3AXV - 2 MTR TENT



1296/2304 DISH



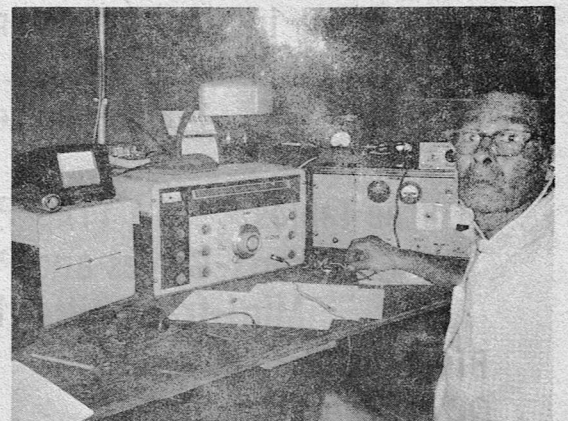
6 MTRS. CARL, W3MWB-HARRY (HAT), WA3NGK



DAVE, WA3JUF OPERATING 220 MHZ.



JO, W2EIF



MARIO, W3ELX POUNDING BRASS ON 432



PETE, WA3OVH-BILL, K3ZSG ..6 MTR FM



DICK, W3FQD-HARRY, W3CL-RON, WA3AXV  
NEW PREZ EDITOR.... NEW VEEP  
(DAVE, W3TMY WORKING 2 MTRS.)

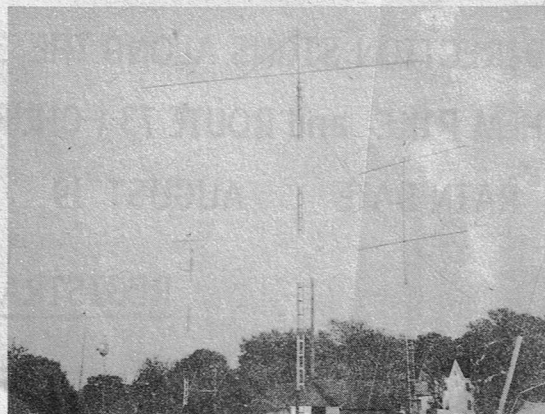


RON, K3ZKO (ATV FAME) WORKING 2M  
FM

1973

JUNE VHF

QSO PARTY



PACK-RAT ANTENNA SYSTEMS !!!

HILLTOWN, PA.

MT AIRY VHF RADIO CLUB INC

17th ANNUAL

# PACK RAT PICNIC

SUNDAY

AUGUST 12 1973

FORT WASHINGTON STATE PARK

FLOURTOWN, PENNA.

All invited..... Members and friends of the Mt Airy VHF Club  
No Flea Market or Swap Shop..... just a good old-fashioned fun day in the country  
Door Prizes for hams, ladies, and children

Free Tables

Free Parking

Free Soda

Barbeque Pits Available

Childrens Games and Prizes

Adult Games..... the famous EGG TOSS

Mini-transmitter Hunt..... Bring an AM Transistor Radio

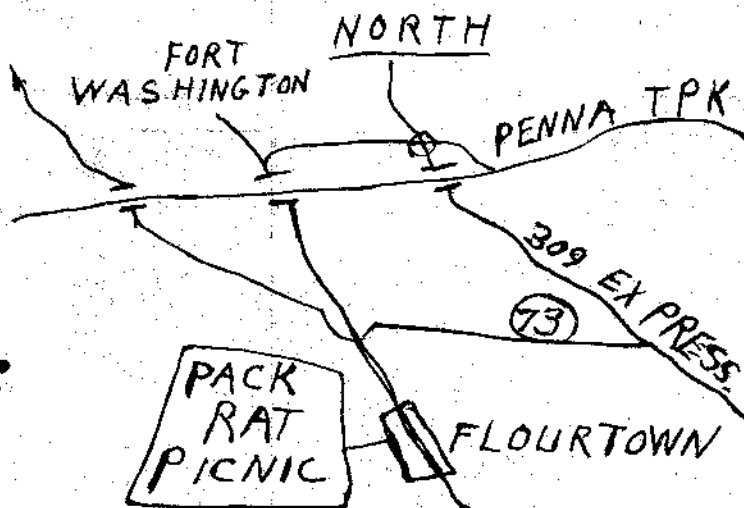
Bingo for the Ladies

Bring your camera

QCWA eyeball visits



**PACK RATS**



Bring your QSL CARD FOR DISPLAY..... Let others know you are here

WATCH FOR DIRECTION SIGNS ALONG THE 309 EXPRESSWAY

BETHLEHEM PIKE and ROUTE 73 ( CHURCH ROAD )

RAIN DATE

AUGUST 19

TALK-IN W3CCX/3

REGISTRATION

\$ 2.00 per FAMILY  
AT THE PARK

50.2 MHZ AM    52.525 MHZ FM    146.52 MHZ FM

HILLTOWN REPORT BY W3CL

We want to add a bit of additional information to Jo's report anent the June VHF QSO Party June 9 and 10 at Hilltown, Pa. First, under the direction of Tony, KLSFF/3, a phenomenal turnout of 50 Pack-Rats over the three day effort (installations were started on Friday). An impressive nine (9) station set-up was made including the erection of 6 towers and a six foot dish. Three additional antennas for 2 & 6 FM and for the 221.4 Mhz intercom were installed. The expeditionary force alluded to in the "Prez Sez" column consisted of K3BPP, W3CJU and WA3NFV who went over to North and South Jersey and installed a complete 2300 Mhz station at these locations including 2 meter FM for dish orientation info. This effort made it possible to include 3 sections in our scoring for 2300 Mhz. Some of the installations were pulled down late Sunday Nite and a large crew returned on Monday to finish the job. K3DLS, suffering from an abscessed tooth accompanied Jo, W2EIF and Bill, K1JDY/3 (our newest member) who provided an ancient stake-body truck) to Stratford, N.J. to help in the unloading. Tony reports 88 sections worked and a score topping 80,000 points. Well done gang.

\* \* \* \* \*

TID BITS

Mrs. Sara Coin (XYL-departed W3IA) home from hospital after surgery. We wish her a speedy recovery.

Congratulations to W2AXU, Jack Power on his recent retirement from the Naval Air Development Center. We understand that plans are well under way for the installation of a 4th tower in his back yard.

The "Broken Hammer Award" was presented by W3ZD, Dave Zimmerman at the June meeting to "Pat Albert", K3EOD. A runner-up should have been the guy who was heard calling W3CCX/3 to give out a point one week late - it sure sounded like Woody, W3PST the new Editor of Philmont's "Blurb".

We just heard that W3SAO, our secretary, retired from the Naval Air Development Center. Best luck Frankie.

A number of Pack-Rats (KLSFF/3, K3BPP, W2AXU, WA2WYE (Florence, XYL W2AXU) K3IUV, K3GAS and W2EIF) helped Al Katz, K2UYH remove a 20 foot dish which he donated to us for our Moonbounce project. WA2LTM & WA2ZZF of the East Coast VHF group were in the work party too. Al has a 30 foot (1500 lbs) Job to go up soon - is there a helicopter in the house.

The Bicentennial Amateur Radio Convention Committee (BARCC) presently consisting of W3ZD, chairman, W3CL, W3HK and K3GAS visited a number of clubs in the Delaware Valley area to present the plans for an Atlantic Division Convention in Philadelphia on July 24, 25, 1976. We were well received by the Philmont, Delmont, Penn Jersey YLs, R.F. Hill, The Mobile Sixers and QCWA (Delaware Valley Chapter). We intend to visit many other clubs in the area in the coming months.

\* \* \* \* \*

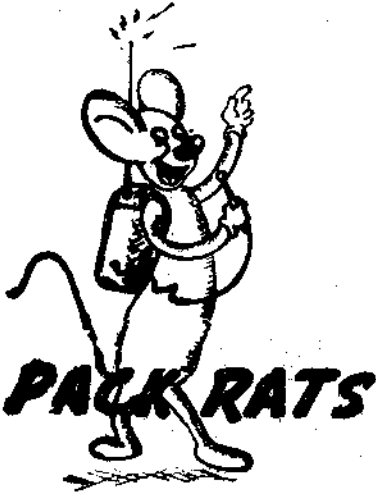
OFFICIAL BULLETIN NR 428 FROM ARRL HEADQUARTERS NEWINGTON, CONN. MAY 31, 1973 TO ALL RADIO AMATEURS BT

The ARRL Board of Directors meets twice annually to formulate the course of ARRL affairs. The second meeting of 1973 is scheduled for July 19. The full members of ARRL elect the Board which has the overall responsibility for managing the affairs of the League. This democratic process is effective only to the extent that the membership participates. Now is the time for members and affiliated clubs to communicate their ideas, including those on the current RACES inquiry discussed on page 78 of June QST, to their division director at the address shown on page 8 of any 1973 QST. AR

Cheese Bits  
2087 Parkdale Ave.  
Glenside, Pa. 19038



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



MT. AIRY VHF RADIO CLUB, INC.

FIRST CLASS

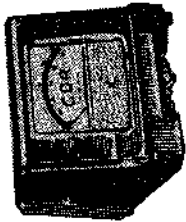
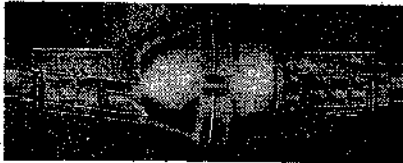
MEETING NOTICE

(215) OL 9-5900

AMATEUR RADIO IS OUR BUSINESS

**"Ham" Berger, Inc.**

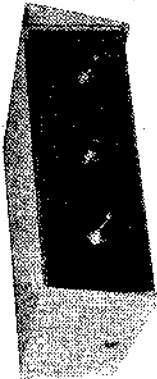
80 N. YORK ROAD WILLOW GROVE, PENN 19090



**HAM M JR. TR44**

REGULAR HAM  
NET 69.95 SPECIAL  
HAM NET WITH  
100 FT 8 WIRE  
CABLE

**\$69.95**  
PLUS POSTAGE WT. 20 LBS.  
PA. HAMS ADD 4.20 TAX



**MODEL PP PHONE PATCH**

TRANSFORMER COUPLED NO PRINTED  
CIRCUIT. LOW HUM LEVEL. GOOD HIGH  
LEVEL AUDIO. PRESS TO TALK. CUS-  
TOM MADE FOR YOUR TRANSMITTER  
NO MIC, CONNECTORS. TO CHANGES  
SIMPLE TO CONNECT. SPECIFY TRANS-  
MITTER OR TRANSCIEIVER.  
PLUS POSTAGE WT. 3 LBS.  
PA. HAMS ADD .30 TAX

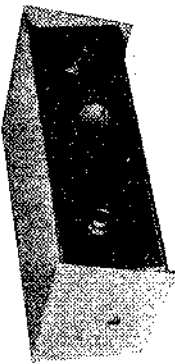
Amateur Price..... **\$14.95**



**\$109.95:**  
PLUS POSTAGE  
WT. 32 LBS.  
PA. HAMS  
ADD 6.60 TAX

**CDR MODEL HAM M**

REGULAR HAM NET—  
129.95  
SPECIAL HAM NET WITH  
100 FT. 8 WIRE CABLE



**MODEL AJ1 AUDIO-JET**

IF YOU OWN A RECEIVER OR TRANSCIEIV-  
ER THAT YOU WOULD LIKE TO INCREASE  
THE SELECTIVITY IN THE CW MODE AND  
REDUCE THE GENERAL QRN, YOU NEED  
THIS EASY TO INSTALL DEVICE. AUDIO  
SELECTIVITY VARIABLE FROM 100 CPS  
TO 8000 CPS CONTINUOUSLY. CONNECTS  
TO 4 OHM OUTPUT AND INPUT. THIS IS  
THE FINEST AUDIO FILTER IN THIS PRICE  
CLASS.

PLUS POSTAGE SHIP. WT. 2 LBS.  
PENNA. HAMS ADD .60 SALES TAX  
HAM NET ..... **\$9.95**