

W3CL COPY

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 THURSDAY OF EACH MONTH AT 8:00 P.M.
(SEE "THE PREZ SEZ" BELOW)

VOLUME XV

AUGUST, 1973

NUMBER 8

THE PREZ SEZ

I am sure the entire membership joins me in saying "thanks and well done" to past-president Walt, K3BPP, retiring recording secretary, Carl, W2MWB, and director Bill, K3ZSG, who recently completed their terms of office. The smooth operation of our club during the past year has been due in a large part to their efforts.

And thanks also from the newly elected slate to all members for your confidence in us. The successful operation of the Pack Rats in its many and diversified activities is totally dependent upon the assistance and cooperation of all, and only with your continued help will we be able to maintain the pace previously established.

Your Board of Directors, aware of a probable change of ownership of our WOLJCC meeting place and spurred by ever increasing traffic and parking problems, has been seeking a new meeting site for some time. It has been most difficult to find an available place which has the facilities which we require, particularly for those meetings with large attendances. However, one place, the Southampton Free Library, 947 E. Street Road, Southampton, Pa., had a meeting room available which appears perfect for our use. The building is just two years old, is easily accessible and has two parking lots adjacent to it. The meeting room is large, well lighted, air conditioned, with ample furniture and an adjoining kitchen for use by our good guys - the refreshment committee.

The Board of Directors unanimously approved the selection of this site for our future indoor meetings. These meetings will hence forth be held on the third Thursday of each month with the first to be held there on October 18, 1973. WA3AXV, the winning site locator, has prepared a map which indicates the exact location of the new meeting place. It will appear in the September issue of Cheese Bits.

A parting reminder - don't forget the annual Pack Rat Family Day and Picnic on August 12th at the Fort Washington State Park! Bring the family and enjoy a day of fun and games in the great outdoors.

Dick, W3FQD

* * *

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

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WE OPERATE ON AN EXCHANGE BASIS WITH OTHER PUBLICATIONS AND ANYTHING THAT IS PRINTED IN CHEESE BITS MAY BE REPRINTED, UNLESS SO STATED, AS LONG AS THE PROPER CREDIT IS GIVEN.

* * * * *

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

SWAP SHOP ITEMS - NO CHARGE

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WA3TEM, MARSHA STEIN

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REC. SEC.: WA3DJF, CARL MATTIACE
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K3KMN, GEORGE GAKOUMIS
W3YXF, JOE RUSHTON
WA3NGK, HARRY BROWN
K1SFF/3, TONY SOUZA

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

MONDAY NIGHT NETS:

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

NET CONTROL


FRIDAY NIGHT NET:

439.250	ATV NET	-	K3ZKO/WA3AXV
	19:00	HRS.	

NET CONTROL

A 5

Amateur Television Magazine



Be seen as well as heard

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P.O. Box 6512, Phila., Penna. 19138

AUGUST

- 5 Shenandoah Valley Annual Hamfest - 10 AM till dusk - at the Winchester National Guard Armory, Winchester, Virginia
- 5 East Coast VHF Society Hamfest, Trenton State College Campus, W. Trenton, N.J. on Route 206 near Lawrenceville, N.J. 10 a.m. Antenna Measuring Contest for 432, 1296 and 2304. Flea Market - no admission charge.
- 5 36th Annual Hamfest, South Hills Brass Founders and Modulators - St. Clair Beach, Murray Park, Pa. (near Pittsburgh). Check in frequency 29.0.
- 8 Board of Directors Meeting - QTH - K3GAS, Doc Cutler, 7815 New Second Street, Elkins Park, Pa. 8 P.M. Directors and interested parties cordially invited to attend.
- 11 The Knight Raiders VHF ARC 7th Annual Hamfest, 10 A.M. YW/YMHA Camp, Rifle Camp Road, West Paterson, N.J. Talk in frequencies: .94 fm 145.71 am and 50.200 ssb. Flea market, auction, swimming and boating and picnicing.
- 12 PACK RAT PICNIC - Ft. Washington State Park, Flourtown, Pa. A real fine relaxing day in the open countryside of Montgomery County. Picnic tables and fire pits available. There will be all sorts of activities - games for the children - bingo for the ladies - tall tale swapping for the QM's - six meter am (50.250) and two fm (52.525 and 146.52) talk-in stations will be working. Free soda to all and prize bags for the little ones. The famous "JJZ" egg toss - see who gets splattered the most this year. Something new has been added, a photo board. Bring some of those photos you have taken at previous picnics and hang (just for the day) up for comparisons. Point the photos at those who have gained inches on the waist line or lost inches on the hair line. Donation at the door \$2.00.
- 15 Second Outdoor Meeting of the season - QTH K3IUUV, Bert Soltoff, 961 Warfield Lane, Huntingdon Valley, Pa. Slide and movie nite of the clubs past activities. A congenial nite under the stars (if it don't dew over) Special slides "The Dish Is Up". Wives, harmonics and YL's cordially invited. Refreshments and pleasant patter.
- 19 Space Net Mini-Hamfest at WB2MTU QTH, Sicklerville, N.J.
- 19 2nd Annual Delmarva Hamfest. 10 a.m. till dusk. State Fair Grounds Harrington, Delaware (15 miles south of Dover on Route 13). No charge for table or tail gate selling. 2 meter transmitter hunt. Prize drawings. SSTV monitor. Talk in = 22/82, 94/94 F.M.
- 18-19 New Jersey QSO Party - "CQ New Jersey" All Bands, 1900 August 18th 0600 August 19th. Logs to Englewood ARA, 303 Tenafly Rd., Englewood, N.J. 07631.

SEPTEMBER

- 2 18th Annual York County Hamfest, Elickers Grove near Thomasville, Pa. on U.S. Route 30, 10 miles west of York, Pa. Picnic facilities, flea

CONTINUED

CALENDAR OF COMING EVENTS CONTINUED
FROM PAGE 3

SEPTEMBER Cont.

2 market, bingo, games, etc. Prizes. Registration \$3.00.

9 SJRA Hamfest, Malaga, N.J. Details on Nets.

14,15,

16 ARRL Roanoke Division Convention, Sheraton Convention Center, Reston, Virginia.

15 The Hamburg International Hamfest - starts at 9:00 a.m. at the Eric County Fair Grounds in Hamburg, N.Y.

Announcing the 16th Annual Pennsylvania QSO Party from 2300 GMT Sat. September 15th to 0200 GMT Monday, September 17, 1973. Nittany ARC, Inc., P.O. Box 60, State College, Pa. 16801

DON'T FORGET 2ND PACK RAT HAMARAMA - OCTOBER 7TH, WARWICK, PA.

* * *

THE FOLLOWING TECH-NOTE WAS RECEIVED BY JOE, W2EIF

Just a short note to pass along some information that may be of interest to fellows using Swan TV-2 144 mc transverters. Most of these units are prone to frequency modulation of the 144 mc SSB signal. This problem is caused by RF feedback due to inadequate shielding. The problem is compounded when the TV-2 is used to drive a kilowatt amplifier, an 8877 in my case. The following modifications will eliminate the frequency modulating the SSB signal and also the carrier shift observed on CW.

1. As received from the factory, the leads of the oscillator and tripler transistors (Q-1 and Q-2) are approximately one half inch long. These transistors should be unsoldered from their PC board and reinstalled so as to make the leads as short as possible.

2. The lead from the power socket to the negative 10 volt buss on the PC board should be replaced with shielded wire. This is most easily done by disconnecting the lead at pin 11 of the power socket and at the negative 10 volt buss on the board. The lead should be replaced with shielded wire. A piece of RG58/U is ok. The original lead can be left in place. It is interesting to note that the original lead is almost exactly one eighth wavelength long.

3. Replace the injection amplifier (V-1) tube socket with a standard shield base socket. Use lugs under the mounting screws and make the bypass lead as short as possible. Use a tube shield. The factory socket is the saddle type and none of the bypasses were directly to ground.

4. Make a small shield of flashing copper and try to shield the oscillator-tripler board from the rest of the unit as much as possible. Mine is a three sided affair that is tacked directly to the chassis with solder.

I am using a homebrew power supply for the unit and I also removed the power output cable that is connected in parallel with the power input socket. The modifications cleaned the signal up nicely and I hope the info with help.

73, Paul, K8III

7312 South Woodland Road
Novelty, Ohio 44072

* * *

OFFICIAL BULLETIN NR 435 FROM ARRL HEADQUARTERS NEWINGTON, CONN. JULY 12, 1973 TO ALL RADIO AMATEURS BT: Radioteletype stations in Havana and Moscow with spurious emissions every 4 or 5 kilohertz continue to cause harmful interference on 20 meters. Every possible diplomatic pressure is being exerted to solve the problem. ARRL Hq. would like all those affected to continue submitting complaint which are being processed through FCC. AR

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. Frequency Counter - The Great American Miniatures Co. has introduced their model C-65 counter covering the range 10 Hz to 65 Mhz. The unit is very small, 6"x2 1/2"x3 1/2", and uses internal nicad batteries. A 6 digit LED readout is used with 8 digit resolution by range selection. Sensitivity is less than 10 MV. Price \$199. P.O. Box 10990, Midwest City, Oklahoma 73110
2. FM T/R Scanner Modification - Hams who use Regency HR2 FM radios can convert the units to scan four channels by installing a kit from Triangle Enterprises. An external LED display indicates which scanner channel is being used. This display panel is mounted on the HR2 and is 1/2" wide and the same height as the Regency. Hardware and instructions are provided for mounting the unit in the case of the T/R. Price Kit \$30. 404 N. Centennial St., Indianapolis, Ind. 46222
3. FM 2 Meter Amplifier - Heathkit Co. has introduced a 40-50 watt transmitter amp kit model HA202 for use with any 10-15 watt T/R unit. Use of this amp. will result in about 6DB or 1 S unit increase in signal strength. The HA 202 will operate from car or fixed power supply voltages of 10-16 DC. After completion the unit may be aligned using either a VTVM or VOM. Price \$70 (kit) Heath Co., Benton Harbor, Michigan 49022.

* * *

ARRL PRESS RELEASE

Amateur Radio At The National Scout Jamboree

Amateur radio will be demonstrated in early August to more than 100,000 participants and visitors at the National Scout Jamboree, sponsored by the Boy Scouts of America. Special amateur radio stations will be in operation at each of the two Jamboree sites: Farragut State Park, Idaho, and Moraine State Park, Pennsylvania. The purpose of these stations is to promote amateur radio among youth, to interest scouts in earning the radio merit badge, to handle messages between the scouts and their homes in cooperation with area radio amateurs and nets, and to provide contact with the Jamboree for those not able to attend. Communication will also be provided between the two widely-separated Jamboree sites.

Three separate operating positions are expected to be manned almost continuously using the special events call signs KJ7BSA July 28-August 9 from Idaho, and KJ3BSA July 30-August 11 from Pennsylvania. QSL requests accompanied by a stamped, addressed envelope may be directed to 225 Main Street, Newington, Ct. 06111 USA. All other contacts will be confirmed via the bureau. Suggested frequencies for finding KJ3BSA and KJ7BSA are 5 kHz above the lower limit of the General and Novice subbands: 3530, 3705, 3895, 7030, 7105, 7230, 14030, 14280, 21030, 21105, 21355, 28105 and 28505 kHz.

(Editors Note: Pete Shavney, WA3OVH, Advisor to Explorer Post 681 has been appointed "Ham Radio Instructor" on the National Staff)

* * *

Dear Harry: Got your letter today, so I figured why not dash off a few lines to you and the rest of our fellow Rats? Well, to begin with, I finished B school then made a mistake and made CPO last year. Anyway, to compound the mistake, I went and got myself an XYL. Bought myself a trailer house, but later found out I can't put up any antennas(yet). Park rules I guess. So most of my operation has been strictly 6 meter AM mobile. Got all my gear, so hopefully I will be able to get on the air soon. Can't stand W6 land, but it looks like I'll be here till at least 1977. Right now, I'm RATTC CPO at NAS Moffett Field. By the way, would appreciate it if the Rats would put me on the inactive list until I get back, which I will do. Let me know what the dues are so I can send them in and at least get the Cheese Bits. I haven't seen them in almost 2 yrs. California is full of FMers and they act like CBers, so I've been getting in some golfing and restoring old cars. Its definitely not a good climate for VHF SSBers. Didn't know that you retired from Johnsville, along

LETTER CONTINUED

with Jack Power and Frankie. So you old soaks have a ball, hi hi. May be back for a few weeks in Late August/ September so I may get to see or at least work some of the boys. Don't have too much more, so I'll sign off and give this damn typewriter some spelling lessons.

VY BEST 73

, Bill Fulling, WA2UUV/6
1358 Oakland Road. #74
San Jose, California 95112

(Congratulations Bill - The CPO, the XYL, the whole bit, you will get your Cheese Bits from now on. Been sending them to the Springfield, N.J. QTH)

* * *

VHF/UHF REPORT BY JOE, W2EIF

There have been some good openings on 50 Mhz but the activity is down. There are time that the band is wide open with no one in the local area operating! There has been no short skip openings on 6 meters which usually indicates that 2 meters is also open. No E skip has been noted on 2 meters this season to my knowledge. There have been no aurora openings to this date. There was a tropo opening on the 6th, 7th and 8th of July which produced good contacts into the Middle West. Dave, W3ZD, reported that he worked into Illinois and Iowa on 2 meter CW. I was not on July 6th and 7th but managed to get on Sunday evening of the 8th. There was a round table which included W8YIO Mich., W2EIF, WA2WOM (NYC) and WA1FFO, Hartford, Conn., K8HWW broke in and asked for 220 contacts. I shifted to 220 Mhz and immediately worked K8HWW in Michigan WA8PKB, Cleveland, and WB8JSD also Ohio. CW was used but signals were so good that a quick shift was made to SSB with excellent copy. There is quite a bit of CW nitely at 144.100. I can usually hear W3BGT in Pittsburgh working the Ill., Ohio and Michigan stations. Although they are not copiable here.

I am sad to report that Bob, W8DGF who I have been contacting nitely for 3 1/2 years, has decided (for health reasons) to give up VHF/UHF activities. He is selling all his equipment and "retiring" to the "appliance operator status" on the HF bands. He has some nice gear including a 70' tower and 1296 equipment for sale.

The Persied Meteors are through late July and the 1st half of August generally and some good DX can be worked on 2 meters provided you like to get up early and use either CW or SSB at the low end of the 2 meters.

For those interested, K0WLU in South Dakota will be transmitting on 144.125 Mhz nitely August 1 through August 14 using SSB. He will transmit the 1st and 3rd 15 second period of each minute and listen during the 2nd and 4th 15 seconds of each minute. The period each evening will be 9:30 to 10 EDST each evening.

K20JD, Rich will be in French Territory (off Newfoundland) August 7 through August 17. He will be using SSB and the call FP0AA, and the frequency will be 144.130 Mhz. If you want to get in on the fun - contact W3UK or Carl, W2AZL and arrange a schedule.

Good luck, Jo, W2EIF

* * *

TID BITS

The retirees are keeping a schedule on 221.4 Mhz. every morning at 10 A.M. We mean W2AXU, W2EIF and W3CL.

"What is a retired Brick called?" (Answer on Page 8)

Lee, K3MXM our Ad Salesman returned from a trip to the West Coast. Covered the coast line from San Francisco to Mexico. Did a bit of desert probing in Nevada also.

CONTINUED

TID BITS CONTINUED

On Saturday July 28th a group of Pack-Rats helped Chuck, WA3LNH take down his 40 foot tower preparatory to shipping it up North to One land. W2EIF finished his 104 element 1296 Mhz YAGI antenna system and copied the following stations on July 23rd: K1SFF/3, Pa. K1PXE, Conn., K4QIF, Va. as well as W4JFU. That evening he worked WA8PKB in Seven Hills, Ohio on 220 Mhz. Who says there isn't activity on these bands!

On Sunday, July 22nd at 1 PM, 22 hams gathered at the QTH of Al Katz, K2UYH at W. Windsor, N.J. and participated in the raising of a 28 foot (1200 lbs) Moonbounce Dish. It seemed to be a daring event to raise this monstrous structure onto a 40 foot special tower, but it was the smoothest operation in years thanks to the fine engineering work done by Al and his friend Doug, WA2LTM. Nine Pack-Rats were present to assist - many pictures were taken and a library of slides will be available for showing at the August Meeting. A job well done!

The July 18th Auction Meeting at the QTH of W3ZD, Dave Zimmerman, Johnsville, Pa. was a gala affair. Notwithstanding the torn up, rebuilding condition of Centennial Road the parking area soon filled with cars. There were over 75 area hams present; Mario, K3UJD ran a successful raffle - Auctioneers, W3ZD and K3JJZ were in excellent form and refreshments were cold and crackley. Our treasurer, Doc, K3GAS, reports that we did better than last year. That's good news. We need the long green for payment of rent for our new meeting place.

* * *
ARRL PRESENTATION TO FCC
Room 856 20th & M Sts., Wash., D.C.
July 9, 1973 0930

A presentation was made to the FCC by ARRL representatives Harry Dannals, W2TUK, president, John Huntoon, W1RW, Editor QST, and Bob Booth, W3PS, General Counsel for the ARRL, the purpose being to acquaint the FCC commissioners with amateur radio in its proper form.

Without going into detail on the text of the presentation (we all know the major points very well), I can honestly say I cannot visualize a finer job. The gentleman mentioned above made a masterful presentation. After the purpose of the meeting was stated by the commissioner Robert E. Lee, Bob Booth set the stage with a few remarks on the impact of ham radio on our country. Next, Harry Dannals touched on the highlights of amateur operations during recent disasters sketched in the great contributions by hams to the radio field in general, and gave examples of many prominent citizens of the world who are hams. John Huntoon followed with a brief overview of the league organization, purpose, and how it functions. Charts were used to show growth and development of amateur radio. Dannals then wrapped up the presentation with the question, "Where do we go from here?" Harry outlined the problems which we face today, and under questioning from the commissioners, he expressed the fears that are rampant today. Namely ... excessive regulations can ham-string the amateur!

During the talk you could see enlightenment sweep over the commissioners, and their response impressed me as enthusiastic. They asked eager questions, and were given good answers by Messrs. Bob, Harry and John. At one point, A. Prose Walker who was sitting behind me in the audience made a brief statement and answered commissioners' questions in an attempt to rebut a portion of the league presentation. In my opinion he came off rather poorly, and was clearly outflanked by the league.

Many points were scored today and we may come out of this battle for survival better than ever. I got the impression that a new era of cooperation between

ARRL PRESENTATION TO FCC CONTINUED

the league and the FCC is here, and I would guess that the rumor-mongers who predict the end of ham radio are wrong again.

It was a distinct pleasure to be on the scene and hear and see the fine performance by the high-command of the league. Ham radio owes a lot to these men, and the job they are doing for all of us deserves our thanks and support.

DAVE ZIMMERMAN, W3ZD

* * *

NEW MEMBER : WA3JUF, David Mascaro, XYL - Esther
518 7th Avenue (2nd Floor)
Warminster, Pa. 18974

REINSTATED TO MEMBERSHIP:

K3ACR, Richard Pattison
717 Paxon Avenue
Wyncote, Pa. 19095
215-885-3830

DROPPED FROM MEMBERSHIP:

W3IXL, Ellis Hersh

VISITORS AT THE JULY 18TH MEETING (TAKEN FROM OUR GUEST SIGNATURE BOOK)
K2SNK, WB2LGJ, WB2RBG, K3MWV, VK3BAG (W3TWD), K3ZMA, WA3ACE, WA2SSZ, W2HCR,
K3ACR, WA2HQE, K2MEJ, WA3QWO, WA3OUM, WA3SEW, WA3QNS, K3BKS, W3USV, K3NMP,
WA3HOW, WA3UTM, WA3MQY, WA3KEY, W3CQC, WN3UDS, WN3TUL, K3DPL, Chris Martin
and Ed May of Warminster.

ANSWER TO "What is a retired Brick"? Frankie. * * *

July 23, 1973

ARRL BOARD MEETING HIGHLIGHTS





ARRL OBS: If transmission of this bulletin runs over ten minutes, don't forget to identify. Make extra transmissions if you can, because of the importance of this information. Thanks -- 73. W1NJM
OFFICIAL BULLETIN NR 436 FROM ARRL HEADQUARTERS, NEWINGTON, CONN. JULY 21, 1973 TO ALL RADIO AMATEURS BT
THE ARRL BOARD OF DIRECTORS DURING ITS SECOND 1973 MEETING IN HARTFORD, CONN. JULY 19 and 20 ESTABLISHED ARRL POLICY IN BOTH REGULATORY AND OPERATED FIELDS WHICH WILL GREATLY AFFECT THE FUTURE COURSE OF THE LEAGUE AND AMATEUR RADIO. REFLECTING STRONG VIEWS OF THE MEMBERSHIP, DIRECTORS AGREED THAT EVERY EFFORT SHOULD BE MADE TO CONVINCE FCC OF THE CONTINUING NEED FOR THE FULL 220-225 MHZ AMATEUR BAND, AND LAID PLANS FOR AN ENERGETIC AND COMPREHENSIVE DEFENSE OF THE FREQUENCIES AGAINST ATTEMPTED INROADS BY CITIZENS RADIO SERVICE. IN ANOTHER REGULATORY ACTION, RELIEF WILL BE SOUGHT FROM FCC IN RELAXATION OF REPEATER RULES, STILL FELT AFTER EXPERIENCE TO BE MUCH TOO LIMITING, PARTICULARLY IN AREAS OF LICENSING PROCEDURES, MONITORING AND CONTROL, ANTENNA INSTALLATIONS, REMOTE BASES AND SYSTEM CONFIGURATION CHANGES. WITH PRIMARY EMPHASIS ON CONTINUANCE AND EXPANSION OF THE AMATEUR SPACE SATELLITE PROGRAM, THE BOARD DIRECTED THE ESTABLISHMENT OF AN ARRL FOUNDATION TO ATTRACT FINANCIAL SUPPORT FOR SPACE AND OTHER INNOVATIVE PROJECTS. THE SUM OF \$38,000 WAS ADVANCED TO UNDERWRITE DESIGN AND CONSTRUCTION COSTS OF OSCAR SEVEN, HOEPPFULLY TO BE IN ORBIT EARLY NEXT YEAR. ADDITIONAL STAFF PERSONNEL WERE AUTHORIZED TO IMPLEMENT PREPARATION FOR AN EVENTUAL ITU FREQUENCY CONFERENCE. A GRANT WAS MADE FOR REFURBISHING THE STATION INSTALLATION AT 4ULITU OF THE INTERNATIONAL AMATEUR RADIO CLUB IN GENEVA. AFTER EXTENSIVE INFORMAL DISCUSSION, THE BOARD FAVORED CONTINUANCE OF SOME FORM OF RACES BUT DEFERRED ESTABLISHING THE LEAGUE'S FINAL POSITION UNTIL A SPECIAL AD HOC COMMITTEE OF EXPERTS HAS COMPLETED ITS STUDY.

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



AD
MANAGER
K3MWM

ADS

<p>NE 7-8329</p> <p>GEORGE S. VAN DYKE, JR., P.E. CONSULTING ENGINEER</p> <p>W3HK</p> <p>4007 CONVENT LANE PHILA., PA. 19114</p>	 <p>AMERICAN RADIO RELAY LEAGUE, Inc. HARRY A. McCONAGHY, W3SW/W3EPC DIRECTOR, ATLANTIC DIVISION, ARRL</p> <p>"Connie-Mac"</p>	
 <p>PHIL THEIS Clegg Div. General Manager K3TUF</p> <p>ISC 3060 Hempfurd Road Lancaster, Pennsylvania 17601</p> <p>TEL: 17171 299-3671 TELEX: 84-8438 CABLE: INTERSIG</p>	<p>73-1 707-5092</p> <p>W3CL</p> <p>HARRY B STEIN ASSOCIATES COMMUNICATIONS CONSULTANTS</p> <p>HARRY B. STEIN</p> <p>2087 PARKDALE AVE. GLENSIDE PA 19038</p>	
 <p>the most interesting amateur magazine:</p> <p>1 Year \$7.00, 3 Years \$14.00</p> <p>HAM RADIO MAGAZINE Greenville, N. H. 03048</p>	<p><u>A request from your AD Manager</u></p> <p>PATRONIZE OUR ADVERTISERS Tell them you saw their ad in CHEESEBITS. Leave your QSL card with them. CHEESEBITS is one of the best read local radio club papers. Circulation - 300</p>	 <p>magazine for radio amateurs</p> <p>PETERBOROUGH, NEW HAMPSHIRE 03458</p>

SWAP SHOP

Wanted: Heath HW32A, HW 22A or
other similar SSB transceiver.
Appearance not important.
Contact: Harry Brown, WA3NGK
584-4846

For Sale: Ranger I, excellent
condition. 90 Watt-VFO rig great
for novice. Asking \$65.
Contact: 215-345-1164 after 6 pm
Ralph, K3ZMA
84 Shewell Ave.
Doylestown, Pa. 18901

For Sale: Heath-HX-30, excellent condi-
tion. \$80.00
50 MHZ converter, Vanguard
407, for 28-30 I.F. \$20.00
432 MHZ, club converter, for
28-30 I.F. \$25.00
Contact: Will Power, WB2OAD
35 Sunset Avenue
West Trenton, N.J.
609-882-7956

ARRL BOARD MEETING HIGHLIGHTS CONTINUED

SUBJECTS ASSIGNED FOR COMMITTEE STUDY INCLUDE EXPANSION OF SPACE IN QST FOR TECHNICAL ARTICLES, THE USE OF FACSIMILE ON ALL AMATEUR BANDS, AN EXPANDED PUBLIC RELATIONS PROGRAM NATIONALLY AND ALSO THROUGH SECTION APPOINTMENTS, AND A LICENSE EXPIRATION NOTICE SERVICE. THE SECOND 1974 MEETING OF THE BOARD WILL BE HELD IN NEW YORK CITY COINCIDENT WITH THE ARRL NATIONAL CONVENTION DATES. MINUTES OF THE MEETING WILL APPEAR IN SEPTEMBER QST. AR

Pete, WA3OVH writes "Surprised that there was not a more enthusiastic response for sponsoring a ham radio exploring post since this would be a public service endeavor. The Naval Compound ARC sponsors Post 681 with all Zero active amateurs on the air--only two members ever help out in any way at all. K3UIB is just a piece of paper that says "we're a sponsor." There can't be a more ideal sponsoring group then W3CCX. We might even get an occasional future member out of it."



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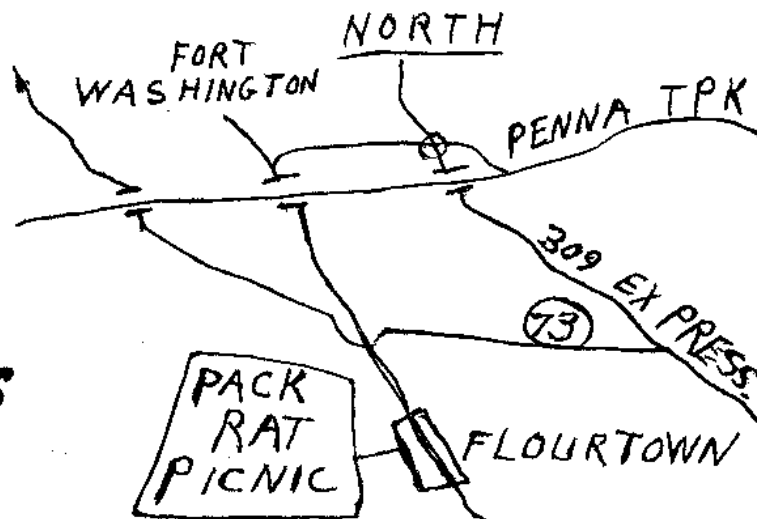
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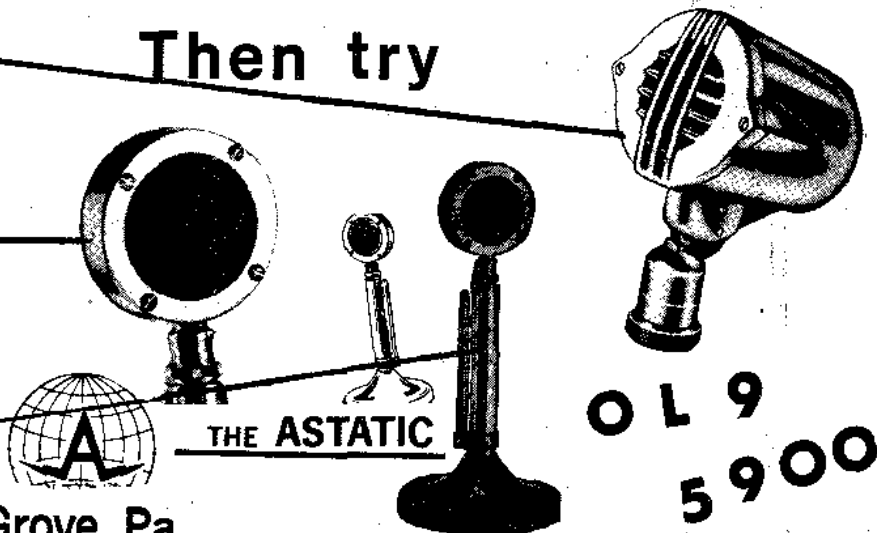
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