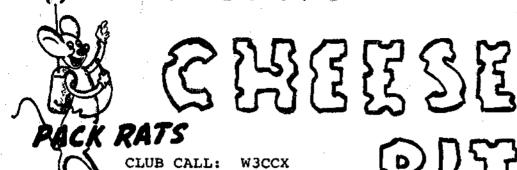
# PACK RATS





MT. AIRY VHF RADIO CLUB, INC.

MEETINGS:

into the lights of 220 SSB. Great job fellows!

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. ARNS 50.125, 144.150, 220.125, 432.110, 1296.110 MHz, W3CCX - Repeater 222.98/224.58 Mhz Affiliated Club: AMERICAN RADIO RELAY LEAGUE

Third Thursday of each month at 8:00 P.M. Southampton Free Library, 947 E. Street Road

Southampton, Pennsylvania 19866

VOLUME XXV

OCTOBER, 1983

NUMBER 10

#### THE PREZ SEZ

Sure hope that all of us had an enjoyable summer. With the weather being extremely hot, I bet that only a few of us got that anticipated antenna work complete. As the fall weather approaches, let's get busy and complete all of those little (and not so little) antenna jobs. Let me congratulate Dave (WB2VLA) our Vice-President for planning an outstanding program for our September regular meeting at the library. All of the fellows who participated in the presentation did a remarkable job in demonstrating how easy it is to get on the 220 MHz band. If we but follow the leadership of our Vice-President, we shall be led out of the darkness

Well, it is Hamarama time again. Dave (W3ZD) our VHF Conference Chairman and Lee, K3MXM our Hamarama Chairman have been working hard. Outstanding programs have been planned for both events promises to be among the best ever. Remember that the success depends on all of the members doing their part. It's time for the "pack" to team up for another "win".

All of you know my feelings about the new "grid system" during the three major VHF contests. I have expressed my opinions on many occasions, both on and off the air. It must be noted that these are exclusively my personal viewpoints and in no way reflect the official position of the Mt. Airy VHF Club. Sorry if anybody thought differently.

73, Bill, WA2DPU

\* \* \*

There is still time to get your registration in for the VHF Conference on October 1, 1983. Mail your check for \$4.00 (\$16.00 if you plan to have dinner with us) to Doc, K3GAS, 7815 New Second Street, Elkins Park, Pa. 19117.

Pack Rats CHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC. Philadelphia, Pa. and is published monthly.

#### SUBSCRIPTION RATE - \$2.50 PER YEAR

We operate on an exchange basis with other publications. Anything that is printed in CHEESE BITS may be reprinted, unless otherwise stated, provided that proper credit is given.

#### SWAP SHOP ITEMS - NO CHARGE

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING: THE THIRD THURSDAY OF THE MONTH.

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#### CLUB HISTORIAN:

MONDAY MICUT METE

W3CL, HARRY B. STEIN

HONDAI MIGHT METS			NEI CONTROL	
		50.125 MHZ	W3CL	
8:00	PM -	144.150 MHZ	W2EIF	
8:30	PM -	222.98/224.58	K3GAS	
8:45	PM -	220.125 MHZ	WA2DPU-K3GYS	
9:00	PM -	432.110 MHZ	K3IUV-WA2DPU	
9:30	PM -	1296.1 MHZ	W3CXU	
			4.	

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## CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

#### OCTOBER

- PACK RAT WEEKEND Saturday THE CONFERENCE Warrington Motor Lodge Sunday HAMARAMA Bucks County Drive-In Theater. Volunteers are still needed for aid and help in the various duties on Sunday. Contact Lee 635-4942 and give your hour to the club. Free breakfast for helpers at Warrington M.L. 5 A.M.
  - The First Model "T" appeared on American Roads (1908). Wonder what the gas mileage on cars was. Any feedback....
  - 8-9 ARRL QSO Party CW
  - 8-9 Tidewater Hamfest 2 days computers, satellite TV, displays and seminars Virginia Beach, Virginia
  - 10 Columbus Day Celebrated
  - (SATURDAY) 11 A.M. Special Board of Directors Meetings at home of Jay Miller, KS2T, 527 Woodview Road, Toms River, N.J. 08753 Phone: 201-244-7623. Come out spend the day at the shore, meet with Jay and help in club's direction and goals.
  - 15-16 ARRL Simulated Emergency Test
- 15-16 Computer and Electronic Flea Market Meadowlands Hilton Hotel, Rte. 3, Secaucus, N.J.
- General Club Meeting Southampton Free Library, 8:00 P.M. Topic: New Products For The Hams, Jim Titus, KA3BGH of Hamtronics Speaker. An open meeting to all. Bring your amateur friends and buddles. The Mario Raffle, Frankie's Silent Auction, Refreshments.
- 22-23 ARRL QSO Party Phone
  - 23 Cara Hamfest, Howard County Fairgrounds, Md.
- Red Rose Computer Fest, Rte. 30 East of Lancaster, Pa. Guernsey Sales Pavilion
- 24 Trivia Info Friction Matches patented 1836
- More Trivia Info The First Postcard Mail used 1870. Wonder where all those pretty post cards have gone....
- 29-30 ARRL International EME Competition, Part I. See Sept. QST Pg. 100
- 29 For you stock market players bad memories The Big Crash 1929
- HALLOWEEN Have your goodies ready for the kids for we were all young once!

Sunwatcher, Jack Power, W2AXU reports the monthly Sunspot No. for August 1983 = 71.9. Smoothed No. for February 1983 = 90.2.

# NEW PRODUCTS OF INTEREST TO HAMS By Lyn, W3NSI

- 1. 220 MHZ FM RIG: JPC Azden ( Japan Piezo Co) will soon bring to market their new PCS 4200 220 rig. This will be one of a line of give in the 4000 series. The 4000 covers 2M 4300-70CM, 4800-10M, 4500-6M, and the 4200 for 220 MHz to round out the set. The units are all the same size, very small 5 1/2" wide and 2" high with a depth of 7". The entire band from 220-225 is covered in 5 or 20 KHz steps. Sixteen memory channels can be set up using keyboard pad on the front panel. All memory channels can be set up using keyboard pad on the front panel. All memory channels can be set up using keyboard also available. Nicad batteries are used to back up the memory when moving the rig from car to house. A frequency reverse button can be used to copy the station that has just timed out the repeater. This allows the receiver to switch to the rpt input frequency. The mic unit has control buttons to scan up or down and also call up memory channels. A very interesting little gem. Price \$300 class.
- 2. 440 HT: Tokyo Hy-Power Labs has just come to market with their Micro-7 UHF HT. This item covers 440-450 MHz and has an output of 200 mW. The Micro 7 is supplied with one set of xtals for 446 simplex and two other channels can be installed. Power is supplied by 4 AA pencells (6V). The ant connector is a type BNC and it is possible to use the HT7 to drive the Tokyo HL20 amp to 15 or 20 watts of output. A VOX unit is an option which, when used with a speaker mic unit attached to a shirt pocket would allow no hands operation. Receiver is a double superhet with 21.4 IF down to 455 KHz. This could be a hot seller considering the price. \$99.
- 3. VERTICAL ANTENNA: B&W, a local firm has introduced a 6 band vertical antenna. The AV25 covers 80 to 10 meters including the new 30 meter band. Direct coax feed is used on this 25' high antenna which is build using three parallel elements. Only one loading coil is used in the 80 meter section. Plastic pipe pieces are used as spacers between these three elements. Details of the antenna are on page 20 of the August CQ magazine. \$99.50 Barker & Williamson, 10 Canal St., Bristol, Pa. 19007.

\* \* \*

# VHF/UHF REPORT By Joe, W2EIF

The VHF/UHF bands have been relatively quiet during August. A few Es openings but nothing to get excited about. This is the season that one can expect some of the long haul ducting that is good up through the UHF bands. However, August 21 produced a good tropo to the Midwest thru 432 MHz.

The September QSO Party was a good contest but not for openings except for a few locations. Locally, the bands were so-so with some scatter on six. One could work from NC to VE3 land to Maine (that is if you could identify where the guy was by his "grid NR.") There were some who did not get in the contest because of dislike for the grid NR system. I found it no great hardship but would not like to see it used in the Jan. or June Contests.

As for the short "mini" contests coming up this fall, grid squares are ok but really unnecessary. I have the feeling that grid squares are for the benefit of those that like to collect certificates for same.

Art, WA2TIF reported into the Packrat 220 net, Sept. 12 and said he operated 2 meters at W1TKZ (FN33) Vermont) and enjoyed an East West duct resulting from a cold front which went through their area late Sunday. He worked 440 2 meter stations in 53 grid squares! All the way into the 9th call area. The other bands also were open to that area. The following Rats were operating during the Sept. QSO Party. W2EIF, K3LYB, WB2RVX, AA2Z, N3BHS, WA3JYO, W3HFY, WØRSJ, WA3NUF, KS2T, WA2OMY, K3QQ and WB2NPE (operating at WB2RVX). Were there others?

#### SWAP SHOP

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CONTACT: W3CQA

6,2,220 convertors and P.S., Central TR-22 - 2Mxcvr & 2M amp. \$125; BC221 freq. meter & book \$25; Club mimeo machine & supplies \$20; stereo rcvrs & speakers (assorted) 8 trk players, phono turntables; reel to reel tape recorders and tape.

CONTACT: Doc, K3GAS

Phone: 215-635-1078

Audio cassette tapes are FOR SALE: available of the Sept. 1 last National Teleconverence Net in which Senator Barry Goldwater answered questions nation-wide from the Ham Radio Community. Send \$3.50 to cover material and insured mailing costs to Al Schnipper, W3AYJ, 1409 Glenview St., Phila, Pa. 19111 FOR SALE: Heath H89 Compter. 64K memory. 2 disc drives. 1 serial port, 1 parallel port (24 bits) \$975

CONTACT: WB3DNI - Pat Cawthorne

Phone: 215-672-5289

FROM ARRL LETTER DATED SEPTEMBER 14, 1984 STS - 9 UPDATE

leg set: extra blades, good condx. \$75. Phone: 215-745-5909 FOR SALE: Collins 75A3 revr w/book and Electronics sideband slicer & book \$175.

CONTACT: Harry Stein, W3CL Phone: 215-887-5052

FOR SALE: Rockwell/Delta table scroll

saw -belt driven with 1/3 hp motor & steel

FOR SALE: 150 ft, RG17AU - \$50. 2 Motorola model L44AGA 2 way class "A" CB base radios with digital clock & base mike - 117 VAC pwr. \$75. 6 panel wood door 13/4" thk, 6'8" x 2'10" with brass hinges, lock & door knobs (\$135 value) \$50. Fan coil unit for hot water or water cooled air double fan will do large room or basement \$50 (\$450 value) Prop pitch motor - good cond. make offer.

CONTACT: Ben Gindin, K3ESL Phone: 215-535-4619

\* ARRL BULLETIN NR 77 FROM ARRL HEADOUARTERS NEWINGTON CT 9/1/83 TO ALL AMATEURS BT: The 1984/8 edition of the ARRL Repeater Directory is now being assempled. Registrations must be rovd. by Nov. 1 to be included. The registration form. CD 240, is available from ARRL Hq. for an S.A.S.E. AR.

STS-9 is now scheduled for an 11:30 AM EDT liftoff Oct. 28. The schedule for the whole mission is based on elapsed time of mission, so if there is a delay in launch the scheduled operating time will change (UTC, EDT etc.), but the schedule based on elapsed time in the mission will remain the same.

The orbits presented here are the only official operating periods scheduled for the mission. However, we must offer a word of caution. In the overall picture, Amateur Radio plays a very minor role; therefore, it is likely that there will be adjustments to the operating schedule once STS-9 is in orbit. W1AW, W5RRR and other NASA related club stations will carry the latest information as it becomes available. ARRL is establishing phone lines with recorded information (the phone company has given us the number 203-666-0688 as a preliminary number, but it could change before installation of the lines). Westlink will be updating their Hollywood number at least daily -- 213-465-5550.

Assuming an 11:30 AM Launch, the times for Acquisition Of Signal (AOS) listed in the table should be accurate for the first city/area.

ORBIT	DATE	CITY/AREA		TIME
39	10/30	Spokane, Denver, Dallas, Houston, New Orleans, S. America	2000	CDT
40	10/30	N. California, down Pacific coast E. of San Francisco & L.A., Mexico	1930	PDT
47	10/31	W. Australia, S. America, Europe	1430	UTC
63	11/1	S. America, USSR, India, Australia	1330	UTC
64	11/1	Iran, Scandinavia, USSR	15551	
77	11/2	NW Africa, E. Europe, Poland, China	0850	
79	11/2	N. tip of S. America, Caribbean, N.	1250	
80	11/2	Europe, USSR. India Caribbean, all E.Coast states, Newfoundl	Land,	
(Thanks VADII	7 መለፋፒሞው ይ ታከ።	U.K. central Europe	0815	EST

#### PROGRAM

#### MID-ATLANTIC STATES UHF CONFERENCE OCTOBER 1, 1983 WARRINGTON MOTOR LODGE

# SPONSORED BY: MT. AIRY VHF RADIO CLUB, INC. PACKRATS

TALK TO THE ASTRONAUT. Bill Tynan, W3XO VHF Editor of QST, and one of the prime-movers in the arrangements to work the space shuttle, "Columbia" and Owen
Garriott, W5LFL, will discuss the details of this amateur radio "first". Bill will cover the frequencies to be used, and suggest the best procedure to make a contact.

- AMSAT PHASE III SATELLITE... Phil Karns, KA9Q one of the designers and a central figure of AMSAT, will discuss the orbit, present status, and general capabilities of this bird.
- 10 GHZ COMMUNICATIONS...Bob Atkins, KA1GT, QST editor of "The New Frontier" will discuss narrow-band techniques for operation on this band, and give us some insight into the technology of the near future.
- 1200 LUNCH
- UHF FILTER AND AMP DESIGN...Dr. Allen Katz, K2UYH, Ch. Electronics Dept.,
  Trenton State College, and known by all as "Mr. Moonbounce" will show methods for
  rapid design of filters and amplifiers using computor technology. Samples of his
  work will be shown.
- NOISE FIGURE... Mike Mitnick, Hewlett Packard Corp., will demonstrate modern techniques in noise figure measurement using the latest HP equipment, and will lecture on the meaning of noise figure and its impact on the communication system.
- SOLID STATE IN MICROWAVES....Bill Olson, W3HQT, and Dave Mascaro, WA3JUF will show examples of solid state design at 1296 mhz and higher frequencies. Much inovative construction will be shown. Device performance will be covered.
- 1830 COCKTAIL PARTY....Hospitality suite hosted by the "Packrats"
- 1930 BUFFET DINNER

#### \*\*\*\*\*

### VISITORS-SEPTEMBER 15, 1983 MEETING

KA2NYF - Janet - Deptford, N.J. N2SB - Bob, Moorestown, N.J. WB2NPE - Rick, Tabernacle, N.J.

YF-WB2NPE - Janice - Tabernacle, N.J. W3AJS - Ed - Oreland, Pa.

#### VOTED TO MEMBERSHIP

#### APPLICATION FOR MEMBERSHIP

WB2NPE - Rick Connor XYL - Janice RD -3 Box 107 Carranza Rd. Tabernacle, N.J. 08088 609-268-0736

N2SB - Robert M. Cook 294 W. 2nd St., Apt. 6 Moorestown, N.J. 08057 609-234-3041

#### CHANGE OF ADDRESS

K2EVW - Richard Subin
Rd. 2, Box 247, Egg Harbor, N.J. 08215
609-965-0706 - Home; 215-898-4613 - Office

# THE MT. AIRY VHF RADIO CLUB, INC. PRESENTS

# HAMARAMA '83

### AND

## MID-ATLANTIC STATES VHF CONFERENCE OCTOBER 1-2, 1983

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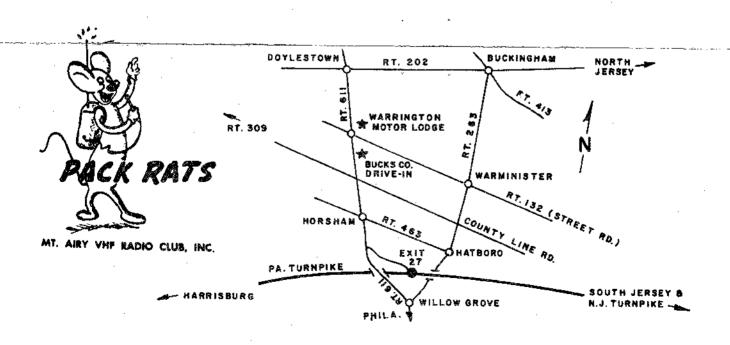
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