

# PACK RATS'



**PACK RATS**

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

# CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA.  
50.125, 144.150, 432.110, 1296.110 MHz, W3CCX - Repeater 222.98/224.58 MHz  
Affiliated Club: AMERICAN RADIO RELAY LEAGUE  
Meetings: Third Thursday of each month at 8:00 P.M.  
Southampton Free Library, 947 E. Street Road  
Southampton, Pennsylvania 19866

ARNS

VOLUME XXIV

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NUMBER 11

## THE VICE PREZ SEZ

The frost is on the pumpkins! January is just around the corner! So, let's get that needed antenna work done before the cold weather prides us with excuses for not hearing those e sections during the January Contest. Phil, WA3NUF (with the behind the scene support from Harry, W3CL) has really been working hard at developing strategies on making preparations for the Contest. Please get those survey forms COMPLETED and RETURNED immediately.

Thanks goes to Dave, W3ZD and to Lee, W3MXM for their great efforts during the VHF Conference and during the Hamarama. The VHF Conference was a great show and the Pack Rats thank all who participated. The Hamarama was the largest ever, over 3,000 in attendance. Thanks to all who attended and made this event a success.

At our October meeting we revisited HK1TL land. El, K3JJZ gave an outstanding presentation, including slides, on the Pack Rats Moonbounce DXpedition to Columbia in 1976. Thanks El, for a great show.

See you at the November meeting.

73, Bill, WA2DPU

\* \* \*

### APPLICATION FOR MEMBERSHIP

KS2T, Jay Miller  
527 Woodview Road  
Toms River, N.J. 08753  
201-244-7623

### CHANGE OF ADDRESS

K3HW, Howard Weinstein  
3 Melrose Street  
Nashua, NH. 03060  
603-882-4817

### NEW PHONE NUMBER

W3HQT, Bill Olson  
215-795-2315

### VISITORS OCTOBER 21, 1982 MEETING

Harmonic K3JJZ - Holli Weisman, Phila., Pa.  
KA2NVF - Janet, Deptford, New Jersey  
W3AJS -Ed, Oreland, Pennsylvania

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

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WA3AXV, RONALD WHITSEL  
215-355-5730

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE  
609-783-9478

CLUB HISTORIAN:

W3CL, HARRY B. STEIN

MONDAY NIGHT NETS NET CONTROL

7:30 PM - 50.125 MHZ	W3CL
8:00 PM - 144.150 MHZ	W2EIF
8:30 PM - 222.98/224.58	K3GAS
9:00 PM - 432.1 MHZ	K3IUV-WA2DPU
9:30 PM - 1296.025 MHZ	W3CXU

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CALENDAR OF COMING EVENTS

Syllabus By Lee, K3MXM

NOVEMBER

- 2 ELECTION DAY - Show your approval or disapproval - but at least GET OUT AND VOTE!!!
- 6-7 ARRL Sweepstakes, CW
- 7 RF Hill ARC Hamfest - Sellersville National Guard Armory, Sellersville, Pa. A close by and indoor Hamfest and well worth attending. The last hamfest of the year in this local area.
- 11 Board of Directors Meeting - QTH, W3CL, 2087 Parkdale Avenue, Glenside, Pa. Tel. 215-887-5052. Directors and interested parties always welcomed.
- 11 Veterans' Day
- 18 General Club Meeting - Southampton Free Library, Program will be announced on the nets. Come out and sign the Pack Rat Xmas greetings card which will be printed in the December issue of Cheese-Bits. Mario's Raffle, Frankies Silent Auction, Refreshments. An open meeting to all members and friends. Bring along a prospective member.
- 19 Gettysburg Address - 1863
- 20-21 ARRL Sweepstakes -PHONE
- 28 First U.S. Post Office opened 1783 - and I'll bet there is still mail lost somewhere in the system.....
- 25 THANKSGIVING

A REMINDER: Fill out both copies of the VHF SS Contest questionnaire and mail them back to your team captain. Get your antenna work done now before the snow flies

\* \* \*

ARRL BULLETIN NR 94 FROM ARRL HEADQUARTERS NEWINGTON CT OCTOBER 22, 1982 TO ALL RADIO AMATEURS  
BT: In its Oct. 21 meeting, FCC adopted an order allowing Morse code examination credit to anyone holding, currently or in the past five years, a valid U.S. commercial radiotelegraph license. FCC ordered the adoption of rules defining a beacon station and permitting automatic operation of these stations. See Feb. 1982 QST for details. FCC adopted an NPRM asking whether most logging requirements should be dropped. FCC also adopted an NPRM to revise procedures for administering the Novice class exam so that only one form would be required to issue the license. No comment deadline has been set but it is expected that FCC will allow 90 days from the date of issuance for interested parties to file comments in each NPRM. FCC also dismissed three petitions pertaining to CB radio. Additional information on these matters will appear in Dec. and Jan. QST and in the Oct. 29 issue of the ARRL Letter AR.

\* \* \*

HAMARAMA REPORT

The fine weather brought out 2100 attendees not counting women or children. Over 300 sellers did a brisk business. The Bearcat Scanner Raffle was won by K3PFX; the Dentron unit was won by a guy by the name of Charley. Special thanks to Trevoze Electronics, Ham Buerger and Dentron for their contributions.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. ATV TRANSMITTER: Microwave Modules LTD now has available their MTV 435 TV transmitter. The unit runs 20 watts output on either of 2 channels, one crystal supplied and one optional. Crystals are on the 109 MHz range. Full transmit receive switching is included. Two video inputs can be selected from the front panel. A test wave form generator is incorporated into the transmitter to assist in adjustments. Price \$310 - Sold by the VHF Shop, Box 349, RD. 4, Mountaintop, Pa. 18707
2. KENWOOD 432 TR 9500: Word is out that the Kenwood Co. will be introducing a new multimode rig for 432 Mc. The 9500 will cover 430-440 Mc in steps of 100 Hz - 1 Khz - 5 Khz - 25 Khz and 1 Mhz. Power rating is 1 or 10 watts out. Other features are the same as the 2 meter 9130 unit. Size is also the same as the 9130. Price \$650.
3. DESCRAMBLER: MFJ Co. has a descrambler unit that is designed to be used with scanner receivers. The MFJ 530 defeats single inversion speech scrambling and also has a tunable notch filter that removes tone masking. In use, the unit plugs into the speaker jack on the receiver Price \$70.

\* \* \*

VHF/UHF REPORT  
By Joe, W2EIF

The VHF/UHF bands have produced some good coastal openings. However, the activity is on the low side. WA2TIF (ENY) has been coming thru on 2 meters almost nightly with very good signals. The Packrat 2 meter net has had people sign in from Northern Pa. near the WNY border on a number of occasions. 1296 is awaiting W3CXU to return from the Jersey shore and restart the net on Monday evenings. WA2LSE is 15 miles SW of NYC and puts a nice SSB signal into SNJ. He is running 100 watts output on 1296.

One would think that with the grass cutting season, and barbecue meals overwith, no football games and the baseball season finished, that there would be more activity, but there isn't. How come? Maybe we should start to think about 902 MHz. There have been some indications that the band might be available. Maybe for June QSO Party!!!

\* \* \*

AMATEUR RADIO FELLOWSHIP MEETINGS

Paramedic, Ken Gary, WB3AHM, will demonstrate various CPR techniques at the Nov. 22nd meeting of the Greater Northeast Phila. Amateur Radio Fellowship. The Dec. 20th program will be an audio recording of the Roy Neal, W6DUE, keynote address given at this year's Dayton Convention. Programs are held at the Northeast Regional Library, Cottman Avenue and Oakland St. (opposite Gimbel's) on the Third Monday of the month at 6:45 P.M. (note new time and day) Admission is free and there is ample free parking opposite the library. For further information call either Al, W3AYJ, 725-2869; Joe, K3RFL, 698-8051; or Dan, K3HES, 338-7946.

\* \* \*

NOTICE

License expiration dates required for the following club members: N3AHI, WB3ATA, K4AWS, K3BOY, K3BPP, W3BRU, WB3CDE, N2CG, W3CIL, W3CJU, WB3CTP, N3EG, W3ELX, K3EOD, WA3EPS, K3ESL, W3FGQ, W3FQD, W2GGB, K3HES, W3HK, WB3HHP, W3HOT, WA3IMT, K3IPM, W3ISV, WB3KES, KD6KD, K3KMN, K3KVS, K3LOM, K3OBY, WA3OVH, WB9PUJ, K3QQ, WA3QWO, WØRST, W3RZU, WA3SPR, WB7TCF, WA3TSE, K3VEQ, KF6AJ, W3YXF, K3ZPN, KØZZM. Telephone Numbers for the following: N3AHI, W3ELX, K3IPM, WB2SZK, K3ZPN.

SWAP SHOP

FOR SALE: Supreme 6 meter high power grounded grid amplifier (3-400Z) and high voltage solid state power supply. \$250

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

FOR SALE: Home Brew 1200 watt PEP - 80-10 Mtr. Linear. \$100. Looking for 6 mtr. gear, ant. transverter, etc.

CONTACT: Rich Prim, WA3IWT  
Phone: 215-355-1192

FOR SALE: Heath Seneca w/2 meter Hetro unit national N C 300 ham band rcvr.

3 Gonset IV - 1 Globe 6&2 Hi-bander free w/sale; 1 50 mc - 1 144 mc - 1 220 mc  
1 Gonset VFO 50-144-220 would like to sell all as a package, \$400. 1 Wilson HT 1405 w/tt pad, charger & case \$75.

1 Bearcat 100 w/case & charger \$275. Want Swan 250 c or equivalent. Want good general coverage receiver.

CONTACT: R.L. Hairsine, K3MPZ  
1408 Wedgewood Road  
Wilmington, Del. 19805  
Phone: 302-994-6878

FOR SALE: TV tubes, bought out dealer; Get your spares before its too late. 80% off.

CONTACT: Dave Zimmerman, W3ZD  
Phone: 215-675-4539

FOR SALE: Lots of things - feed thru caps, buttons, etc.

CONTACT: Doc, K3GAS  
Phone: 215-635-1078

WANTED: 220 FM rig

CONTACT: Bill Letvenko, WA3TSE  
Phone: 215-345-9232 (days)  
215-348-8933 (nights)

FREE TO A GOOD HOME: Complete 6&2 mtr. Am station - Homebrew, 80 watts each band.

CONTACT: Tony Souza, W3HMU  
Phone: 215-847-5017

HELP GET A PACKRAT HIGH!!! Here's your big chance to get rid of that excess 1296 gear. Don't delay - call WA3AAJ right away.

PHONE: 215-887-1062

COMMERCIAL AD: Hamtronics FM repeater announced. For many years, amateurs and commercial users have applied Hamtronics FM Exciter, Receiver, Power Amplifier, COR, and CWID modules to making their own repeaters, either by obtaining wired units or by building them from kits. Now, Hamtronics, Inc. has announced the availability of complete Repeater package, including all the hardware and controls. Although there are many high-quality features in the new REP-100 Repeater line, the one of most interest to the average ham is the attractive price. At \$59 for the vhf unit in kit form or \$745 wired and tested, you can save a bundle without compromising quality. There just isn't anything else on the market to give you that kind of value. That has always been the goal of Hamtronics in all of their equipment; to provide top notch performance at an affordable price. The REP-100 is constructed on an attractive beige 7 inch rack panel, with a simple, uncluttered control arrangement. Electrical features include excellent sensitivity (0.15 uV at vhf, 0.2uV on uhf), superior selectivity (both 8 pole crystal filter and ceramic filter for + 12 kHz at -100 dB), AFC and hysteresis squelch to lock onto drifting or fading signals, a clean easy-to-tune transmitter, and up to 20 Watts output. A proportional-controlled crystal oven option provides 2 PPM frequency stability down as low as -30°C (-22°F), if needed. The REP-100 Repeater is available for 6M, 2M, 220MHz, and 440 MHz bands and adjacent frequencies. It is also available in configurations for remote linking and crossbanding, including 10 meters. The 2M and 220 MHz models employ a 3 section helical resonator in the receiver front end. The uhf version uses 6 tuned lines in the receiver. That is important if you share a site with other transmitters. Delivery on the REP-100 is from stock for kits and about 2 to 3 weeks for wired units' so you don't have to wait long to get yours. The price even includes channel crystals of your choice. A complete catalog on the REP-100 Repeater, as well as transmitters, receivers, converters, preamps, etc., is yours for the asking. Call 716-392-9430 or write Hamtronics, Inc.; 65-F Moul Road, Hilton, NY 14468-9535. For overseas mailing, please enclose \$1 or 4 IRC's.

## MID-ATLANTIC STATES VHF CONFERENCE

By Dave Zimmerman, W3ZD

The 6th Annual Mid-Atlantic States VHF Conference, held at the Warrington Motor Lodge Warrington, Pa. attended by 150 active hams and VHFers, was judged a huge success. Newly constructed facilities in the banquet complex are superb. Pleasant decor together with an abundance of comfortable chairs and well-designed PA system did much to set off the technical talks.

Bill Tynan, W3XO, VHF editor of QST spoke on Oscar, present and future and showed some excellent slides. Ron Whitsel, WA3AXV from the Naval Air Development Center, spoke on micro-electronic technology and showed samples of recent development in the field. Paul Rinaldo, W4R of the Amateur Radio Research and Development Corp. presented packet radio, and told how this high-speed data technique is adaptable to amateur repeater operation. Paul is perhaps the country's leading spokesman on packet radio, and is working towards a network of amateur repeaters which will link the eastern seaboard with a high speed data network which would prove to be invaluable in time of emergency. An unexpected but interesting presentation on the California to Hawaii Duct and Tropo opening was made by Larry Lewis, KØRI presently stationed in Washington, D.C. at the Headquarters, Marine Corps. The morning session was followed by a fine buffet luncheon.

Dr. Allen Katz, K2UYH discussed stressed dish antennas and showed slides on the work he has done over the years to perfect the outstanding portable structures he has used to provide moonbounce contacts from many rare states. Bill Olsen, W3HQT and Dave Mascara, WA3JUF both from the Packrats, employed a mixture of cracker-barrel style and down to earth approach to solid state design to show their excellent work in the field of 1296 and 2304 MHz transverters. Both seemed to talk at the same time, but as the talk unfolded, it was evident that each knew when to stop to let the other make a key point. A nice presentation which included some fine constructional hand-outs. Bob Atkins, KA1GT, QST editor of the column, "The New Frontier" spoke on many aspects of communications on that new frontier; which of course is 1000 MHz and higher; and discussed some of the phenomenon and the tools which are needed we are to get successful.

The technical talks were followed by the Packrats cocktail party and a buffet banquet with food and service that would be hard to beat anywhere. Carl Scheideler, W2AZL, one of the pioneers in the VHF field and an active VHFer for more than 20 years presented the "John Chambers Award" to Allen Katz, K2UYH. Allen was given this award for his pioneering work in the field of amateur moonbounce by the Central States VHF Society but could not be present to receive it in person at their last convention in Baton Rouge.

The activities and the fine efforts of the Central States group raises the question of forging a more formal organization of the Mid-Atlantic Conference so as to achieve a broader base with involvement of other active VHFers and other organizations into the effort. At the present time, the conference is sponsored and run by the Packrats.

\* \* \*

### TID BITS

Sun watcher, W2AXU, Jack Power, reports the Sunspot No. for September, 1982 = 119.2.  
Smoothed No. for March 1982 = 128.7.

Many thanks to Dick Boyle, K3IGX for the fine job of fitting years of Pack-Rat history in the form of viewing slides in carousels for the club projector.

Please note the 6 meter severe weather net is now underway on Sunday morning at 10 AM on 50.150 MHz. Thanks WA3RSQ.

Condolences to Horace Deacon, W3AJF on the recent loss of his twin brother.

(CONTINUED ON PAGE 7 )

TID BITS CONTINUED

V2AXU writes that in his review of the Central States VHF Society Conference published in the Sept. issue of Cheese-Bits he mistakenly stated the incorrect date of the 1983 Conference. It should be July 29,30 & 31, 1983.

From the 1934 Radio Club of America 25th Anniversary Year Book we give you the following quote by George Eltz, Jr. "There is something big, something cosmic, about radio that washes away the petty things that so trammel other arts and scienses. The rich and the poor, the wise man and the student, meet through the medium of the ether and are comrades. This is the spirit of your club, treasure it, foster it, for when it dies the club dies with it."  
(Thanks, Dave Zimmerman, W3ZD).

Congratulations to our VEEP, Bill Smith, WA2DPU on obtaining his extra class license. Also please note that Bill again chaired the Board and regular meeting last month in fine style!

\* \* \*

FROM WESTLINK REPORT  
October 22, 1982

Amateur Radio Will Be Operated From The Space Shuttle Columbia. Astronaut Dr. Owen Garriott, W5LFL has been granted tentative permission from NASA to use 2 meter FM from the orbiter during the STS-9 mission, scheduled for October of 1983. Present plans call for Garriott to use a low power rig such as a handy talky or a "black box" constructed in the ARRL lab. The radio will be required to meet the rigid specifications of the shuttle as determined by NASA.

ARRL President Vic Clark, W4KFC is personally coverseeing the project for the League and it is expected that all coordination for the Amateur portion of the STS-9 mission will be handled through Bernard Glassmeyer, W9KDR, its Satellite Coordinator. AMSAT is also expected to play a significant role as well.

Garriott's Amateur operation from Columbia will be limited to the lower two Megahertz of the band in the interest of making this a world-wide good will mission, and to avoid "20 meter type" pile-ups on U.S. and Canadian repeater systems. The exact frequencies that will be used, as well as the proper procedure to work the spacecraft will be announced later. To avoid confusion and pile-ups, several ideas are being considered, including the designation of specific repeaters around the world to act as "gateway" stations through which all QSO's will be coordinated.

The "approvals" for this first manned space Amateur experiment have been okayed by NASA in Houston and only await a final "green light" from Washington. Credit for this "first" belongs to the ARRL, along with Garriott and NBC Network News Correspondent Roy Neal, K6DUE.

\* \* \*

QUICK QUIPS -de Florida Skip

It is too bad Human being cannot exchange problems. Everyone seems to know how to solve the other fellows.

Political Conventions consist of an elephant, a donkey and a lot of bull....

Some folks make you feel at home - others make you wish you were....

Trying to squash a rumor is like trying to unring a bell....

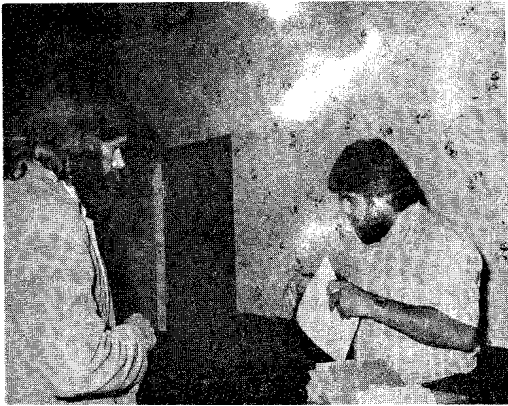
Noah was probably the first great financier - he wisely floated his stock while everyone else was being liquidated....

In any given miscalculation, the fault will never be placed if more than one person is involved...

Successful Man - one who makes more than he can spend.

Successful Women - One who finds him...

No matter what happens there is always someone who knew it would...



BILL OLSON, W3HQT .. DAVE MASCARO, WA3JUF



RON WHITSEL, WA3AXV



LARRY LEWIS, KØRI (CAPT. USMC)



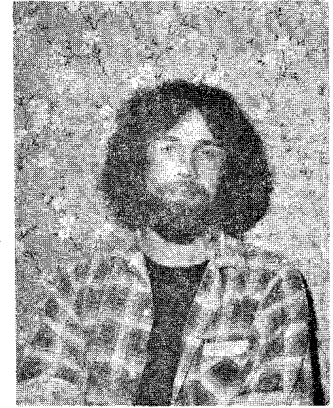
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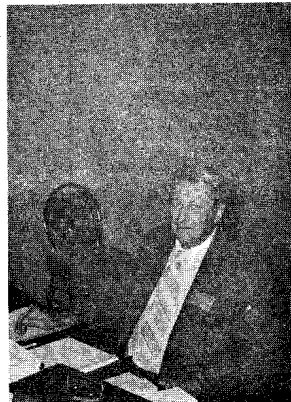
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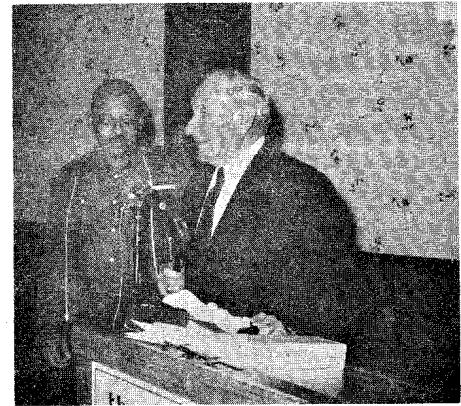
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K2UYH



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DAVE ZIMMERMAN, W3ZD, CONFERENCE  
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