# PACK RAT

# REESE SE RATS

W3CCX



MT. ARY VHF RADIO CLUB, INC.

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. 50.125, 144.50, 432.110, 1296.025 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 18966

VOLUME XXIV

JANUARY, 1982

NUMBER 1

ARNS

#### THE PREZ SEZ

New Years Resolutions - Have you made yours yet? If you're like me, you're still thinking about it. A good but not unrealistic resolution can be a challenge and fun. scourages us some times is that our resolutions are too big - even for Packrats. If you need some ideas, here are a few: Get on a new band - 432, 1296, 2304, get on a new mode - SSB on 220 or even CW on 6M or 2M, try a new propagation such as meteor scatter, eme, antennas - more and bigger, more power and a better preamp. One or more of these will put you ahead a bit more competively in contesting and add to your day to day enjoyment on the bands. Another area for resolutions is to upgrade your license class - a number of Packrats have upgraded over the last few years and after a fling or two on the dc bands they always come back to VHF. A quick review of the latest Packrat directory shows a fairly balanced spread of license classes with 44 techs, 13 generals, 42 advanced and 14 extras. Whoever says that VHFers only operate on vhf because they can't pass the exams don't really have accurate information.

Hope you've reviewed the contest rules and prenumbered the log sheets to get ready for Sweepstakes. With only 2 weeks to go, there's not much you can do with outside work (but if you need help - yell) but make sure everything in the shack is working and your operating area is comfortable. Hope you can grind thru the full 34 hours, but if not, please give it your best shot. Our competition hasn't given up yet and we're not about to let them beat us without quite a fight. The results were close last year, but I'm sure that the difference could be widened considerably with a little more effort - that extra something that makes us Packrats instead of just another large group of guys that just happen to operate on the VHF frequencies. How much harder are you going to work this year?

73, Harry, W3IIT

Congrats to Bill, W3HQT for being top single operator in the country in the ARRL UHF Contest. Looks like 10 Packrats got around to sending in logs - where was us other guys? 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

#### EDITOR:

W3CL, HARRY B. STEIN 2087 Parkdale Avenue Glenside, Pa. 19038 215-887-5052

#### PUBLISHER/SUBSCRIPTION MANAGER:

K3GAS, DOC CUTLER
7815 New Second Street
Elkins Park, Pa. 19117
215-635-1078

#### PRINTER:

WA3FOF, RALPH ALEXANDER 215-PI 5-9007

#### TYPIST:

WASTEM, MARSHA LISSAUER

TRUSTEE OF CLUB CALLS (W3CCX-WR3ACD):
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-W3HQT
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
PACK RAT REPEATER 222.98	8/224.58 MHZ
LOCATED IN CHURCHVILLE,	PA.

OFFICERS: 1981-1982

PRESIDENT: W3IIT, HARRY BROWN VICE-PRES: K3KTY, JOHN TATE COR. SECY: W3ZD, DAVE ZIMMERMAN REC. SECY: K3IGX, DICK BOYLE TREASURER: K3GAS, DOC CUTLER

DIRECTORS:

WA3JUF, DAVE MASCARO (2yrs)
WA3NUF, PHIL MIQUELEZ (2yrs)
WA2DPU, BILL SMITH (1yr)
K3NHX, JOE GARDOCKI (1yr)

FREE ESTIMATES (215) 672-3850 (215) 822-0808



#### MICHAEL MCMACKIN

REGISTERED PLUMBING & HEATING
BATHROOM INSTALLATIONS \* ELECTRIC DRAIN CLEANING

96 HELLBERG AVE. CHALFONT, PA. 18914 2405 PARKSIDE AVE. HATBORO, PA. 19040

1-302-478-2757

### AMATEUR and ADVANCED COMMUNICATIONS



G. B. WALLS

9208 CONCORD PIKE (RT. 202) WILMINGTON, DEL. 19803



# Pennsylvania Institute of Technology

PAUL D. MERCADO

Chairperson, Drafting Design Department

(215) 352-7100 (215) 528-6998 414 SANSOM STREET UPPER DARBY, PA. 19082



THE AMERICAN RADIO RELAY LEAGUE

ost

JESSE BIEBERMAN, W3KT
Director, Atlantic Division

RD 1 BOX 66 VALLEY HILL ROAD MALVERN, PA. 19355

(215) 827-7426

# CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

#### JANUARY

#### 1982 --- HAPPY NEW YEAR ---- 1982

- 1 ARRL Straight Key Nite
- 2/3 ARRL CD Party
  - 3 Admission Day Alaska admitted to the Union as the 49th State
  - 6 Epiphany
  - 7 Orthodox Christmas
- 9/10 73 Magazine 40 and 80 Meter Phone Contest
- 10 Richmond Virginia FROSTFEST Virginia State Fairgrounds. Info: W4LD
- Board of Directors Meeting QTH W3KKN Ernie Kenas, 2823 Old Weish Road, Willow Grove, Pa. Officers and Directors will attend. Interested parties condishly invited to attend.
- 15 Martin Luther King Birthday
- 15 Adults Day Japan
- 16-17 THE CONTEST \*\*\* GOOD LUCK TO ALL.. One Point Five Will Keep Us Alive.
- 16 For the Snow Birds Sarasota, Florida Hamfest Info: WD4BAJ
- 19 For our Southern Friends Happy Birthday Robert E. Lee, Born 1807
- 20 Fairbands, Alaska Start of Kuska 300 Mile Dog Sled Race
- General Club Meeting Southampton Free Library 8:00 P.M. GRYING TOWEL SESSION. You will have a most receptive audience to hear all your problems and woes of the past weekend. Usually one of the best meetings of the year. Open to club members, their friends, and all VHF contestors. The Mario Raffle; Frankie's Silent Auction; Refreshments.
- 30 President Roosevelt's Birthday Born 1882. Remember "The March of Dimes"

\* \* \*

#### CHANGE OF ADDRESS

#### ADD ON PHONE NUMBER

WA3WAS/6 - Steve Simons 944 H Kiley Blvd. Santa Clara, CA 95051 408-243-1178 WA3YUE - Bruce Loss 215-947-4166 -- Work --215-542-2966

\* \* \*

#### NOTICE

Dick Huntzinger, W3FQD has developed a morse code practice program for a Heath H89 ome computer. Written in BASIC; it should be readily translatable for use on any home computer which has a speaker for audio output. Contact Dick if you want a copy of the program.

N2CI: reports - Starting Jan. 5, 1982, WA2SNA will be conducting new nets from the Ramapo Mountain Group in N. Jersey. 7:30 PM - 50.125 Mhz; 8 PM 144.225 MHz. Pack-Rats theck in pleases.

## NEW PRODUCTS OF INTEREST TO HAMS By Lyn, W3NSI

- 1. TRANSVERTER 1296 MHZ: Selecto Inc. has a new line of 1296 transverters for use with either 10 M or 2 M rigs. Double conversion is used on the 10 meter version. Noise figure on the receiver section is rated 3.9 db. Two power outputs are available when used on the 144 Mhz range. The standard unit is rated 1 watt at 1296 while the high power version puts out 3 watts. The 10 meter IF unit has an output of 1 watt. Price -2 M-IF 1W-\$315, 3W-\$395. 10 M-1 W-\$385. 372d Bel Marin Keys Blvd., Novato, CA. 94947
- 2. VLF CONVERTER: The MFJ 332 allows the ham to tune 10-500 Khz on a ham band receiver using the 28.010 to 28.500 Mhz range. Part of the BC board can be covered by continuing up the 10 M band. Converter uses 9-18 VDC., Size 3x4x1 inches. Price \$80.
- 3. TWO METER PA FOR HT USE: Advanced Communications International AC 20 will boost the 2 watt signal of a 2M HT to an output of 10 watts. Unit can be used for SSB as well as AM operation. Antenna switching is done by RF sensing within the unit. In use the AC 20 would normally be mounted in the car and left there. The HT would then be patched in for use in mobile operation. VSWR protection is built into the AC 20. Price \$40. 2411 Lincoln Avenue, Belmont, CA. 94002

# VHF/UHF REPORT By Joe, W2EIF

The bands from 2 meters up have shown the usual low activity for this time of year. The six meter band has furnished all the excitement from Mid October thru Mid December. The band has been open daily for cross band (and also direct) into Europe along with backscatter contacts to practically all sections of the U.S.

Approximately at Noon the band shifts to the West with the antenna fixed in the NW direction one can hear and work practically all U.S. sections on backscatter plus tremendous signals from Mexico to VE6-VE7, and maybe Alaska in the late afternoon. The band is not expected to continue in this everyday DX beyond Mid December. W2AXU reports that he has received SASE's from Alaska stations - what a switch. See you during the Contest January 16 and 17.

## NEW HAMTRONICS CATALOG

Hamtronics, Inc. announces publication of a new 1982 catalog crammed full of goodies for the VHF/UHF/OSCAR enthusiast and two-way shops.

The 40 page, two-color catalog features a new 5 channel, 10 Watt VHF FM transceiver, new COR and CWID modules for repeater builders, and new accessories, such as RF tight enclosures for repeaters and power supplies. Also featured are a new R76 VHF FM Receiver and the T51 (VHF) and T451 (UHF) FM Exciter modules. Many new ranges of transmitting and receiving converters have been added, as well as a series of receiving converters to extend the frequency coverage of scanners to new military, satellite, and commercial bands.

For your free copy of this attractive new catalog, call 716-392-9430 or write to Hamtronics, Inc., 65F Moul Rd., Hilton, N.Y. 14468. (For overseas mailing, please send \$2.00 or 4 IRC's.)

\* \* \*

Lee Cohen, K3MXM has done it again. As a member of the Old York Road Wingate lodge of B'nai B'rith was stationed at the Abington Memorial Hospital on Christmas Day taking greeting messages from the patients. Other volunteers of the lodge gave their time so that Christian employees could spend the holiday with their families. K3HIN, Rich Albert did a stint at one of the other local hospitals.

#### SWAP SHOP

FOR SALE: Spring Bases for mobile antennas. \$2.00; CB radio interference Traps \$1.00; TV atching xfmrs and balans-couplers \$1.50; \_\_atenna trunk mounts \$4.00; Battery holders for 4 - AA cells 50¢; 8 track tape players \$10 and up; 1-4/8 track player w/ 2 speakers \$20; Mobile slide mounts; Electronic learning sets \$8; AM auto radios \$8; Holders for records and tapes; new base station antenna for 30-50 MH and 130-175 Mh \$10: As is--motor and control box \$5; As is 5 wire control boxes \$3, each; As is 4 wire rotor \$3; 2 new VHF bow tie reflectors \$2. each; Slide projector \$5; Club mimeo machine and supplies \$15: Audio cables; some small length of coax; Heath oscilloscope model 10-4560 \$125.

CONTACT: Doc Cutler, K3GAS Phone: 635-1078

FOR SALE: Kenwood TS-520 xceiver w/DG-5 digital display. Has D.C. converter for 12V operation like new condition. DG-5 is also a 40 Mhz counter \$495.

CONTACT: Jack Power, W2AXU Phone: 609-882-8811

FOR SALE: Drake TR22 with xrals for 6 channels with AC power supply \$75; National NC-183D General coverage rcvr to 54 Mhz - like new \$125; Swan 270-SSB TR - works on AC or 12 V. DC. \$225.

NTACT: Jim Beaver, W3AHZ
Phone: 215-886-8180

FOR SALE: Heathkit phone patch \$30; Hygain TH3JR hiband beam antenna \$100; 432 Mhz

15 el. quagis - make offer.

CONTACT: Paul Drexlar, WB3JY0

Phone: 215-598-3934

FOR SALE: Halicrafters HA-6 6 meter xverter \$70.

CONTACT: Gary Hitchner, WA20MY/3 Phone: 215-539-6409

FOR SALE: Yaesu #207 2 mtr. HT with memory, digital scan. spare battery, case, instruction manual, warrency card. \$250. Fast charger \$50.

CONTACT: Larry

Phone: 215-342-3363

FOR SALE: Yaesu Ft 401, spkr, mike, 500 "

CW filter. (80-10 mtrs) \$225 (firm)

CONTACT: A1, WA3KUB

Phone: 215-426-9116

FOR SALE: Video camera - Blw; zoom lena.

5" monitor, cable. \$150 CONTACT: John Sorter

Phone: 215-968-3049

\* \* \*

Sadly we report the following Silent Keys Long time friends of the Pack-Rats:
Robert Booth, W3PS; Ed Handy, W1BDI; Haland Harris, W1HOY; Herb Brooks, W2BG; Joe Walch, K3CT; George Hautenchild, W3KD

\* \* \*

#### TID BITS

Sum watcher, W2AXU, Jack reports - Monthly sunspot No. for November 1981 - 135.6 Smoothed number for May, 1981 = 142.7.

Dick Boyle, K3IGX, our recording secretary spent some time in the hospital with  $\tau$  bad back. Feeling better now.

Best wishes to Doug & Wendy Simpson, WB3KES leaving for residense in Melbourne, Florida. Doug will be working for Harris Electronics.

\* \* \*

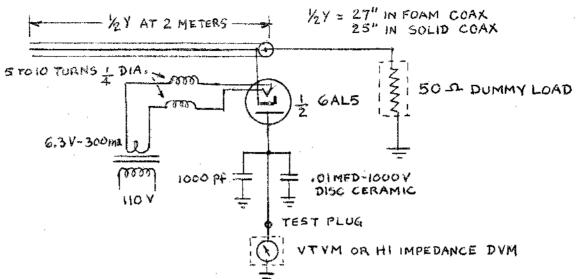
#### AMATEUR RADIO FELLOWSHIP MEETING

Lyn Rowland, W3NSI, will speak on "Electronic Devices for Radio Amateurs" to the Greater Northeast Phila. Amateur Radio Fellowship which meets on Monday, January 25, 1982, 7:00 P.M., at the Northeast Regional Library, Cottman Ave. and Oakland St. (Opposite Gimbel's). Admission is free and there is ample free parking opposite the Library. For further information, call either AI, W3AYJ, 725-2869; Joe, K3RFL, 698-8051 or Dan. K3HES, 338-7946.

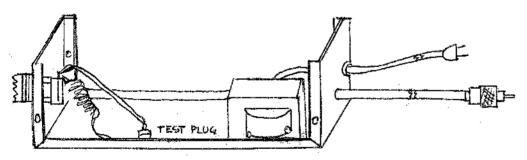
\* \* \*

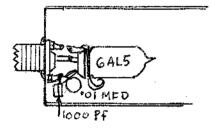
#### VISITOR DECEMBER 17, 1981 MEETING

Wendy Simpson (XYL - WB3KES) Lansdale, Pa.



- 1. Use only one chassis mount coax connector to cut down VSWR problems
- 2. Since it reads peak voltage power =2(R) = W = 100 in 50  $\Omega$  system
- 3. It will operate up to about 500W on low bands, did not check it on high power on VHF
- 4. Make connections very short to increase accuracy and reduce VSWR on VHF
- 5. Practical limit appears to be 2 meters, use a good dummy load
- 6. Dummy load may be at either end, it is by-directional





DWGS. by Henry Prim, WZCFG

#### LAST MINUTE SWAP SHOP

FOR SALE: Complete 6 & 2 SSB Transceiver- 100 Watts Drake TR6 + TC2 + CC1 & Pwr Sply -\$800

2M FM Transceiver - ICOM IC230 - \$175; 220 FM Transceiver Clegg FM 21 - \$100. Complete HF Station includes - HQ 110 Rcvr, HT-37 Xmtr (100W), Johnson Match Box- Complete \$375, 12V -6A Pwr Sply, Misc. Antennas, Rotators & components- make offer, CONTACT: Rich Pattison, K3ACR

Phone: 8 AM to 5PM- 609-234-5700-Ext 2312

215:947-8670

## MARKETLINE

2337 Philmont Avenue Huntingdon Valley, Pa. 19006

Computers for Hobbyists



AMERICAN RADIO RELAY LEAGUE HARRY A. McCONAGHY, W3SW

8708 FENWAY DRIVE - POTOMAC BETHESDA, MARYLAND, 20034

NE 7-8828

CEORGE S. VAN DYKE, JR., P.E. CONSULTING ENGINEER

W3HK

4607 CONVENT LANE PHILA., PA. 19114



AMIL S. GUMULA PRESIDENT

A. G. RADIO PARTS CO. 939 TOWNSHIP LINE RD. ELKINS PARK, PENNA. 19117 TELEPHONE: 215 - 886-5100

Authorized Distributor

#### **K2RPZ PRINT**

stu goodman

Distinctive QSLs-Largest selection, lowest prices, top quality photo and completely customized cards. Make your own QSLs truly unique at the same cost as a standard card, and get a better return rate! Free samples, catalogue. Stamps appreciated. Stu, K2RPZ, Box 412, Dept. PR, Rocky Point, NY 11778. (516) 744-6260 **AMATEUR** SALES & SERVICE

(215) OL 9-5900

### "HAM" BUERGER INC.

Communication Specialists

**BOB HERSHMAN** WA3ZID

68 N. YORK RD. WILLOW GROVE, PA. 19090

PENN ARC A GENERAL PURPOSE CLUB

Monthly meetings the 4th Tuesday-8PM Montgomery County Community College 340 DeKalb Pike, BlueBell, Pa.

CLUB REPEATER - 223.04/224.64 Mhz



Write for FREE COPY of any of our publications.

The Ham Radio Publishing Group GREENVILLE, NEW HAMPSHIRE 03048

CALL DOC CUTLER (K3GAS) FOR YOUR ELECTRONIC NEEDS

NEW, RECONDITIONED, OR AS IS.

LOW PRICES

by appointment

215-635-1078

\* HEATHRIT

Norm Richards Manager

Heathkit Electronic Center 6318 Roosevelt Blvd. Philadelphia, Pennsylvania 19149 (215) 288-0180

RADIO - HAM - CB - STEREO

#### RICHARD H. PIERCE

FLECTRONIC EQUIPMENT REPAIR SPECIALIZING IN AMATEUR RADIO EQUIPMENT

камму (215) 785-0058 2700 NEW FALLS ROAD NEWPORTVILLE, PA. 19056

880WSING -THURS 77% 87\* SAL 97% 47\*

Day-Nite (215) 455-2121

## FERTIK'S ELECTRONICS .....

Components & Equipment

LEON FERTIK

5400 ELLA STREET PHILADELPHIA, PA. 19120

CAR STEREO - CITIZENS BAND - BURGLAR ALARMS 2 WAY RADIO - TOWER INSTALLATION & REMOVAL TV - HAM - CB ANTENNAS

Steve Simons

MOBILE EQUIPMENT INSTALLATIONS SALES & SERVICE

**WA3WAS** 

Tel. (215) RA 5-1135

SSOS KENDRICK PL.

215-P15-9007

WASFOF

RALPH ALEXANDER

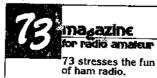
Electronic Equipment Repair Technical Writing Printing

(215) 723-1200 (215) 646-2600

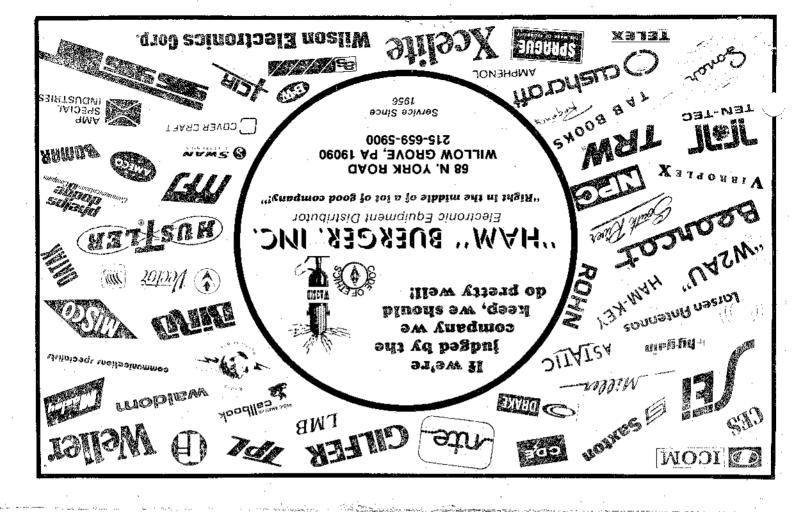
CARR ELECTRONICS
AMATEUR RADIO GEAR NEW & USED FOR TODAY'S HAM

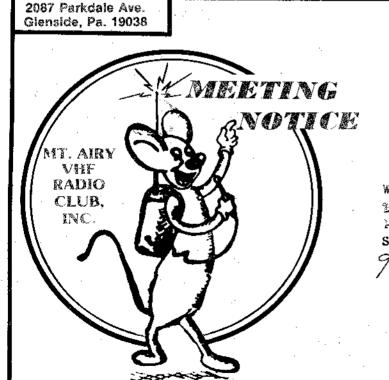
JOSEPH J BURGESS

MAIN & RELIANCE TELFORD, PA 18969



\$25 one year \$53 three years POB 931 • Fermingdale NY • 11737





Cheese Bits





PLASMA THE STATE UNIT G

PLASMA THE THE STATE OF THE SUNNYVALE, CA. 94086

9444 KILEY BLYD

SANTA CLARA, CA.

95051

FIRST CLASS