

# PACK RATS'

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**PACK RATS**

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

# CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PENNSYLVANIA

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

Meetings: Third Thursday of each month at 8:00 P.M.

Southampton Free Library, 947 E. Street Road  
Southampton, Pennsylvania 19866

VOLUME XXVI

NOVEMBER, 1987

NUMBER 11

## THE PREZ SEZ

Hi Guys: Glad to see so many of you at the Conference and at Hamarama. Gary Hitchner, WA2OMY, the Conference Chairman, organized a very successful and interesting program. The attendance this year was excellent and the ARRL publication of the papers presented was a nice touch that proved quite popular. (Additional copies are still available from Doc, K3GAS).

Three Pack-Rats made presentations at the Conference. Rick Connor, WB2NPE moderated a panel discussion on a 6 meter band plan/dx window. Ron Whitsel, WA3AXV, and Dave Mascaro, WA3JUF, presented a paper on 3.4 and 5.7 ghz, Communications Systems. Both programs were very good and showed the Pack-Rats continued commitment to VHF & UHF & SHF communications.

On Sunday Pat Cawthorne, WB3DNI, Hamarama Chairman, organized another successful Hamfest. Even though the weather wasn't very cooperative, everything went smoothly and attendance by buyers, sellers and Pack-Rats was excellent. All the Pack-Rats that showed up at breakfast at 5 A.M. or later to help park cars, sell tickets and man the club table sure helped make it possible to have the Hamfest run so smoothly.

Anyone who wasn't at the October meeting at the library missed an excellent slide show on the microwave capabilities and systems in use at Channel 3 for electronic news gathering. Rich Prim, WA3IWT, put a lot of effort into this presentation -- from the slides we saw he must have been months putting the shots from all over the Delaware Valley together into a show.

Next month Steve, WB2WIK, and Pete, KT2B, will present a slide show on their expedition last June to Grid Square FM 27 -- Chincoteague Island, Va. I'll see you all at the meeting.

73, Bob, N2SB

\* \* \*

### VISITORS - OCT. 15, 1987 MEETING

Son(WA3IWT) Rich Prim - Richboro, Pa.  
W3BDZ - "Jerry" Butler - Lawncrest, Pa.  
WA3BIS - Huck Eltonheid - Phila., Pa.  
KT2B - Pete Putman - Buckingham, Pa.

### CHANGE OF ADDRESS

W3HQT - Bill Olson  
Box 2310 -RRI  
Troy, ME 04987  
207-948-3741

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SWAP SHOP ITEMS - NO CHARGE

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

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609-783-9478

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W3CL, HARRY B. STEIN

MONDAY NIGHT NETS

7:30 PM - 50.125 MHz  
8:00 PM - 144.150 MHz  
8:30 PM - 222.98/224.58  
8:30 PM - 220.125 MHz  
9:00 PM - 432.110 MHz  
9:30 PM - 1296.1 MHz

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CALENDAR OF COMING EVENTS

By Harry Brown, W3IIT

NOVEMBER

- 1 RF Hill Hamfest at the National Guard Armory, Pa. Rte. 152, Sellersville, Pa. Talk-In on 144.71/145.31, 146.28/146.88 and 146.52.
- 3 Election Day
- 3 Predicted peak of the Taurids Meteor Shower at 2200 UTC.
- 3 Predicted peak of the Casseopids Meteor Shower at 2100 UTC.
- 7-9 ARRL November Sweepstakes, CW - See Oct. QST Page 72 for rules.
- 8 Radio Central ARC Hamfest at the Suffolk County Community College. Talk-In: 145.150 PL4Z. For more info call: Andrew Feldman, WB2FXN at 516-928-3868.
- 11 Veteran's Day
- 12 Pack-Rat Board of Directors meeting at the QTH of Dave, WA3JUF. All intersted parties welcome. Call 215-795-2648 for directions.
- 14-15 ARRL International EME Contest. See Sept. QST Page 85 for rules.
- 21-23 ARRL November Sweepstakes. Phone.
- 17 Predicted peak of the Leonids Meteor Shower at 1500 UTC.
- 19 November Packrat meeting at the Southampton Free Library on Street Road in Southampton, Pa. All interested VHF'ers are welcome. Meeting starts promptly at 8:00 P.M. Program - KT2B and WB2WIK will present a slide show on their operations out of Chincoteague Island, VA.
- 22 President John F. Kennedy assassinated 1963. Where were you?
- 24 EME Perigee
- 26 Thanksgiving Day
- 30 Mark Twain's Birthday

-- COME TO THE NOVEMBER MEETING AND BUY A HOLIDAY GREETING FOR A BUCK - THE GREETINGS WILL APPEAR IN THE DECEMBER ISSUE OF CHEESE-BITS.

-- The May-June 1987 issue of Northeast VHF news prints antenna measurements and noise figure measurements on converters and pre amps from 50 to 1296 Mhz. These figures were made at the Eastern VHF/UHF Conference this past Spring at Nashua, N.H.

\* \* \*

HAMARAMA 1987 REPORT

By Pat, WB3DNI

Thanks to all the Pack-Rats who came out and helped at this year's Hamarama. Despite the fact we were a little damp, I think all went pretty well. Attendance was down about 20% but we can look forward to better weather next yr. Here are a few of the helpers that I can remember: WB3IGR, K3IUV, K3GAS, W3CL, W3ZD, WB2VLA, WB2NPE, WA3NUF, N3CX, WB3JYO, WA3AXV, N2SB, AK30, K3PHY, WA3YUE, WA3YDZ, W3HMU, K3ESJ, KF6AJ, WA3JUF, KA3MGB, KB3XG, KB3QM and Drex W3ICC. Special thanks to Harry, W3IIT who pulled me out of a spot and took charge of ticket sales again this yr. Any volunteers for next year? To all that I have missed, my apologies. Thanks again!!

## PROPAGATION REPORT

Paul Drexler, WB3JYO

With the arrival of cooler weather, activity on the bands has been increasing. Our net check-ins as well as daily activity across the bands indicates that Fall is officially here - get that antenna work done while you still can!

On the 22nd and 23rd of September an Aurora took place on 2 meters with IL, IN, and WI stations worked. Grids EN41, 51, 52, 53 and 62 were worked by local stations. This author was alerted of the opening by an announcement made on the club repeater - TNX N3BBI!

On the 27th, Mark Wilson, AA2Z made an expedition to grids FN41 and FN51 from Cape Cod. Mark supplied 903 contacts to WB2NPE, N3CX and WA3AXV. In addition, WA1JOF, W1JR and W1RIL worked Mark on both 903 and 2304.

The following week, on the 2nd of October, AA2Z again took to the road and trekked to Mt. Equinox, FN33 accompanied by John Lindholm, W1XX. N3CX, WA3AXV and WB2NPE worked AA2Z on 903. This made grid number 25 on 903 for Rick. W2EIF was heard at Mark's end but no 2-way took place. W1XX then worked WA3AXV and WB2NPE on 2304 from the same FN33 location. The FN33 boys ran 20 watts on 903 and 1.5 watts on 2304 using single yagis. Their mountain-top efforts should be applauded.

Hope to see you on the bands - remember the January contest is just around the corner. Don't get caught with you loopers down!

NOTE: Paul reported on the October 19, 1987 net that an excellent tropo opening occurred Friday and Saturday October 16 and 17. 2 meters and 432 opened with good DX.

\* \* \*

The following letter was received 10/26/87

Dear Pack-Rats:

This is just a short note to let you know how much my son Rich, KALQDC and I enjoyed our first trip to a Mt. Airy VHF Club Hamarama. The Saturday program was interesting and very informative. The qualifications and enthusiasm of the speakers made quite an impression on both newcomer KALQDC and aging veteran AB1U. However, I still do not believe that all of that equipment can be put together without the aid of a quarter million dollars worth of test sets, Hi.

The banquet was also an enjoyable event. The dinner table discussions led to some new acquaintances and hopefully they will mature into friendships as the years pass. The Sunday flea market was quite a bit better than I expected. Dayton is the only one larger than I have experienced. Of course I found some treasures to drag back to Connecticut.

After all this though, I must tell you that the one thing that impressed me the most about the whole weekend was the hospitality which was extended by the Pack-Rats. I have been to many amateur radio events over the last twenty-five years but I can honestly say that I have never felt as welcome as I did at this event. A common interest was all that was required for a truly enjoyable time. This was also apparent to Rich. Seeing the friendliness of your group and the fun everyone has together provided the motivation to begin studying to upgrade with a special interest in contesting. Watch out K1PXE !!! Thanks again for some true hospitality.

73 & DX, Rick, AB1U

Editors note: Many thanks for your wonderful comments and gud luck Rick to you and Rich.

## SWAP SHOP

FOR SALE: Collins Linear Amp 10-80  
mtrs. Mint condition \$500.

CONTACT: Ceasar Arena, W2SVV  
Phone: 609-883-6336

FOR SALE: 3 el Telrex 6 mtr.  
beam \$25. R1W - 19 - 432 beam \$30.  
2 mtr, plumbers delight amp. w/tubes  
\$45.

CONTACT: Phil Miguez, WA3NUF  
Phone: 215-675-4277  
215-362-8500 Ext. 260

FOR SALE: TAPR type TNC-2, cable,  
manual \$100. Icom 730 HF xcvr w/CW fltr  
and xvrtr adapter \$400.

CONTACT: Bill, K3ZMA  
Phone: 215-822-0749 - Eves.

FOR SALE OR SWAP: IBM PC computer,  
R-390 - A Rcvr, WANTED: HF Amp. 902  
Mhz xvrtr.

CONTACT: Gus, K3GYS  
Phone: 609-767-3628

FOR SALE: Christmas records & cassettes;  
tubes, xtals, parts, tape recorders; HO trains,  
switches, structures; NC 303 rcvr, Heath FM  
alignment gen., Heath marker gen., Heath  
attenuater.

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

FOR SALE: 6 mtr. 4 el. telerec beam \$25.  
Electronic components and equipment.

CONTACT: Joe, K3RFL  
Phone: 215-698-8051 for appointment.

FOR SALE: Phelps Dodge 6 mtr. cavity filter.  
Catalog # 645, 67" tall, 12" wide. Tunes: 50.0  
- 50.9 Mhz. Very effective in eliminating 6M  
TVI \$300. QST Magazines: 1935 - 1986 complete.  
1943, 44, 45 in binders. Issues range from  
fair to excellent condition \$375.00. 73 mag:  
From 1st issue (Oct. 1960) - 1982 complete.  
Includes several holiday editions. Good to  
Excellent cond. \$350.00. Pick-up only on  
above items.

CONTACT: Harry, KA3B  
Phone: 215-468-1512

\* \* \*

## COMMERCIAL AD

In July of 1987 TIMEKIT was appointed the sales representative in the United States and Canada for "VHF Communications" Magazine. Both the Spring and Summer printings are available for immediate shipment and Autumn and Winter to follow on regular schedule. Contact TIMEKIT P.O. Box 22277, Cleveland, Ohio 44122. Phone: (216) 464-3820.

## COMMERCIAL AD

LOOP YAGIS: 902 Mhz and 1296 Mhz \$77 kit. \$93 assembled and tested. 2304 Mhz \$67 kit an \$80 assembled. Also, 2 and 4 way power dividers and stacking frames. LINEAR AMPLIFIERS. 1296 - 10W in 35W out \$295. Call for special Pack-Rat discounts and prices on complete arrays! NEW!! Microwave Transverters and preamps by LMW ELECTRONICS. 2304 Mhz deluxe trans-verter Model 2304 TRV2D, 144 Mhz I.F. Power out 2 watts, includes separate GaAsFET preamp. NFI db and built-in T/R sequencing circuit, relative output meter and built-in I.F. attenuator to match inputs from 100 MW to 10 watts. Price complete \$569; 1296 deluxe trans-verter, model 1296TRV6D similar to 2304 unit 6-7 watts out. .7db N.F. price \$489. Stripped down versious available at lower cost, also available in kit form. 902 Mhz version coming soon. Universal local Oscillator Kit model ULO. Multiple outputs in 1 and 1.2 Ghz range depending on xtal. \$33.75 less xtal. Write to obtain complete catalog. DOWN EAST MICROWAVE, Bill Olson, W3HQT, Box 2310 - RR1 - Troy, ME. 04987. Phone: 207-948-3741.

\* \* \*

## A 73. MAGAZINE PLUG

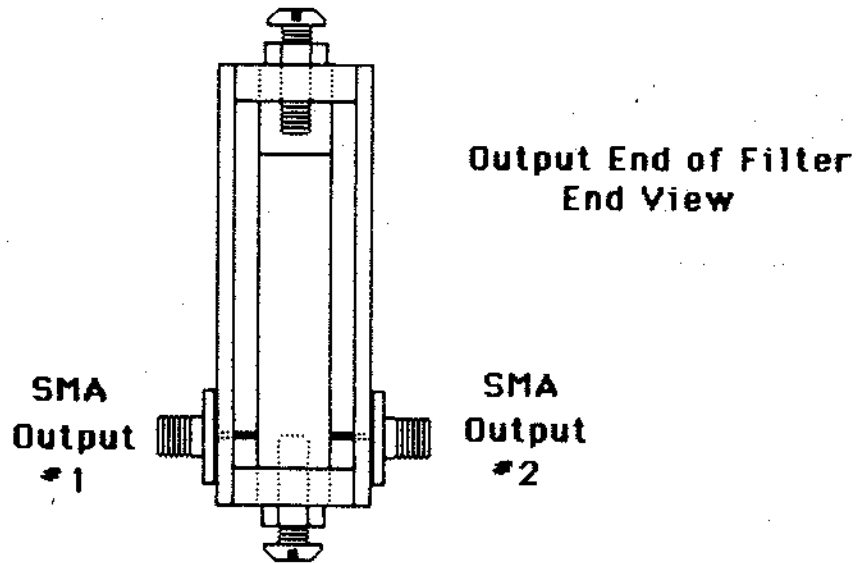
Peter Putnam, KT2B in his column "Above and Beyond" (VHF and UHF Operation), gave the Pack Rats publicity reference their Monday Nite Nets. Pete will be one of the speakers at the November 19th club meeting. (TU Jo, W2EIF for the article)

# Interdigital Filter/Power divider

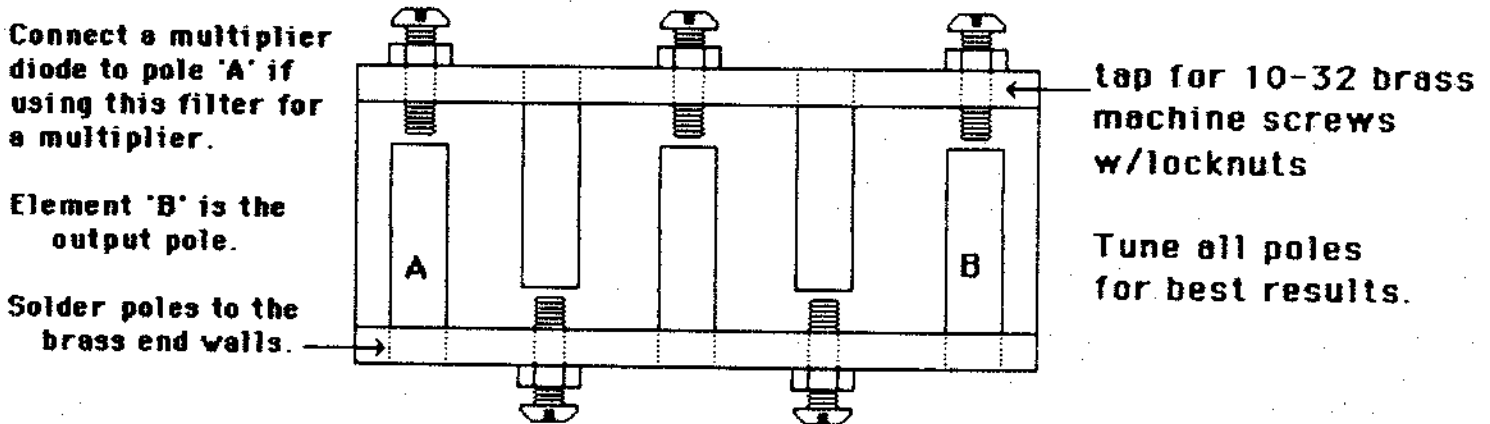
Unit allows dual Local oscillator outputs

Reference: W2CQH, Jan. 1974 QST

KA1GT, May 1984 QST



2160, 2304 MHz..... tap @ 0.35" from cold end  
3312, 3456 MHz..... tap @ 0.15" from cold end



Can be used to split output of a filter or of a multiplier/filter. Use capacitive coupling on one output if one output is to be a different level, ie: for a duplex system.

WA3JUF 1987

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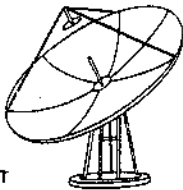
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