

# PACK RATS'



# CHEESE

# BITS



CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

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 XXX

JUNE, 1988

NUMBER 6

## THE PREZ SEZ

The May meeting was ARRL NIGHT. Hugh Turnbull, W3ABC, The Atlantic Division Director, started off and gave us an overview of what the ARRL is doing currently for Amateur Radio. He also mentioned that this year's Grand Old Man of the Year Award for the Atlantic Division is being given to our own Harry Stein, W3CL. Congratulations Harry! Next, Kay Craigie, KC3LM, the EPA Section Manager, congratulated the Pack Rats on our winning the January VHF SS and filled us in on club activities throughout the EPA Section.

The main speaker of the evening was Bob Bennett, W3WCQ, of the VHF/UHF Advisory Committee. Bob explained how the VUAC works and how recommendations are made. He also said that lack of input from the amateur community is a major problem. One of the current problems the VUAC is now tackling is whether or not to move the authorized beacon frequencies to another section of the bands. (see page 81 of June 88 QST). This subject was the center of a very lively discussion. Many of the Pack Rats present at the meeting had strong opinions on this subject. A letter to the VUAC and to Hugh Turnbull, W3ABC is being prepared to voice our opinions on this and other subjects. If you have anything to add, let me know or write a letter of your own.

The consensus of opinion at the meeting was to leave the beacon frequencies right where they are now. Low power beacons are useful in the weak signal parts of the bands within 50 KHz of the calling frequencies as propagation indicators. This is especially important on bands like 903 MHz, 1296 MHz, and 2304 MHz where activity is relatively low (as compared to 2 Mtr. SSB). Moving them up 300 or 400 KHz would make them just about useless, and on the lower bands would disrupt Packet, FM Simplex and local SSB usage currently in this area of the bands.

For beacons to be useful, low power is a must. A 100 watt beacon doesn't serve any purpose. Here on the East Coast there are only a handful of beacons on and the problems cited in the proposal now under consideration by the VUAC just don't exist. A proposal that includes changes to be implemented by the FCC doesn't seem prudent for a problem that isn't national in scale.

June 10 - 14 the Pack Rats will be participating in the June VHF QSO Party. I would like to encourage all the members to get involved in this event. The site is Hilltown, PA. If you can't come on Friday or Monday to help set-up or take down the equipment, come on Saturday or Sunday to relieve a tired operator for a couple hours. Volunteers will be accepted at any TIME. The next meeting is the last one at the library until September. It is also election night and nominations remain open until that evening. CU in June, Bob, N2SB  
P.S. Tnx to W3ABC, KC3LM and W3WCQ for an interesting and enjoyable evening.

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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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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

JUNE

- 1-2 Second Annual Convention of Chaverim International will be held at the Harbor Island Spa at Long Branch, N.J.
- 4 EME Perigee
- 5 Manassas Hamfest and Computer Show at the Prince William County Fairgrounds. Talk-in on 146.37/.97 and .52.
- 7 Predicted peak of the daytime Aritides meteor shower at 0150 UTC
- 9 Pack-Rat Board of Directors meeting held at the QTH of WA3YUE. Call: 947-4166 for directions.
- 9 Predicted peak of the Zeta Persids Meteor shower at 1020 UTC
- 11-12 June VHF QSO Party. See May QST Page 89 for rules. W3CCX will be operating from Hilltown, Pa. (30 miles North of Phila.) on all bands thru 10 GHz.
- 12 15th Annual Central Pa. Ham and Computer Fest at the Winfield Fireman's Fairgrounds in Winfield, Pa. Talk-in on 146.97, 147.18 and 146.52.
- 14 New Moon
- 15 The IEEE Conference on Communications '88 being held in Phila. will have a session on recent developments in Amateur Radio.
- 16 Pack-Rat meeting at the Southampton Free Library on Street Road in Southampton, Pa. Annual election of officers. All members and interested VHFers welcome.
- 18 Dunellen New Jersey Hamfest sponsored by the Raritan Valley Radio Club. Talk-in on 146.025/.625 and .52.
- 18 Park Ridge New Jersey Hamfest sponsored by Gilfer Associates at Gilfer Associates, 52 Park Avenue.
- 18-19 SMIRK QSO Party for all of you Six Meter Buffs. See June QST Page 103 for rules. Contest runs from 000Z June 18 until 2400Z June 19.
- 19 Frederick Maryland Hamfest at the Frederick Fairgrounds.
- 21 +/- 1 month. Look for openings to Europe on 6 meters.
- 25-26 ARRL Field Day \* \* \*

An apology to Bob Bennett, W3WCQ (of the VUAC), the ARRL speaker at our May ARRL NITE. His photo did not make it for our picture page 8 of this issue.

\* \* \*

Pictures taken by Doc, K3GAS of Ladies Nite were unavailable for printing since Doc was not well and was hospitalized. Doc is back home now and feeling much better. The films to be processed and will appear in a later issue of Cheese-Bits.

SLATE OF NOMINEES FOR ELECTION OF CLUB OFFICERS

President N2SB - Bob Cook  
Vice.-Prez WC2K - Rick Connor  
Cor. Secy WB3JYO - Paul Drexler  
Rec. Secy WA3AQA - Walt Zumbach  
Treasurer K3GAS - Doc Cutler

DIRECTORS - 2 YEAR TERM

K3GYS - Gus Nicoletta  
WA3AXV - Ron Whitsel  
W3ZD - Dave Zimmerman

ONE YEAR TERM

WB3DNI - Pat Cawthorne  
WB2VLA - Dave Power

(VOTE FOR TWO (2) IN EACH CATEGORY)

NOMINATIONS ARE OPEN UNTIL THE ELECTION MEETING JUNE 16, 1988

\* \* \*

FOR IMMEDIATE RELEASE

The well-traveled W1XX multi-op team will AGAIN activate the United Nations Station 4U1UN. This time its the ARRL June VHF QSO Party. 4U1UN will be on all bands 50 through 2304 Mhz, SSB, CW, FM AND 432 MHz moonbounce (EME).

Don't forget, 4U1UN is a separate DXCC Country!

Good antennas with short coax runs will be placed high atop the 40-story UN building in downtown Manhattan. Be sure to look for our big signals on all bands. And, don't hesitate to ask our 50 and 144 MHz ops for skeds on the UHF bands; we'll try our best to accommodate you.

A big thanks to the United Nations Staff Recreation Council Amateur Radio Club for allowing us to reactivate this rare VHF/UHF country. QSLs (SASE please) to:  
Harry A. Westervelt, NA2K, 72 Kuhlthau Avenue, Milltown, N.J. 08850  
(TNX Bart-KB9NM/1)

\* \* \*

EM97 ON 50 THRU 2304 MHZ WD8ISK AND N8DKL

A mountain in West Va. (EM97) will be the site of a multi-multi effort during the ARRL June VHF QSO Party (June 11 thru 13). The WD8ISK multi-op group will team up with the N8DKL group; and they will be using the N8DKL call during the contest.

Part of the WD8ISK group operated from this location during the September '87 contest, with the handicap of only two full time operators and two part time operators. And they still placed among the top in the country! And the N8DKL group has had good showings from this location during the previous five years. So it was only natural to suggest a combined effort.

EME operation is being discussed, but will probably not be attempted on this first big portable operation. But large antenna arrays and lots of power should provide an exciting contest weekend.

Anyone wishing schedules should contact Terry Price, WD8ISK, at 513-883-8953.

(TNX to WA8OGS for this info.)

\* \* \*

SWAP SHOP

FOR SALE: Alan 50V10 step attenuators, o-10db, 1.0db steps, 1 watt, 50 ohms, max swr 1.4:1@2 Ghz, insertion loss .4db@2 Ghz. One SMA connector, one "N" connector, spec sheets. Pack-Rat price \$25.00.

CONTACT: W3GXB, Robert G. Fox  
1776 Street Road  
Southampton, Pa. 18966  
Phone: 215-322-6248 evenings.

FOR SALE: Cushcraft 2 mtr Yagi, model 32-19 \$55. 903 Mhz Looper \$50. 3-1000 air socket (new) \$25.

CONTACT: Dave, N3CX  
Phone: 215-679-7293

FOR SALE: (From Estate of an ex/cb'er) "Big Boomer" amp. for 10 & 6 mtrs. Tubes: 6JG6A & 3-6LQ6. Meter reads up to 300 watts output. Make offer.

CONTACT: W3BRU - Frank Benner  
523 Vine St.  
Perkasie, Pa. 18944  
Phone: 215-257-2450

FOR SALE: Computer Goodies: Must clear basement. 2-miniScribe 3012 Hard disk drives. 10 Meg. half high \$110; 2-control data WREN-1 Hard disk drives 31 Meg. full high \$330; 1-Cipher Data Products Cartridge Tape Drive Model 540CT \$250; 1-IBM Comp. CGA Color Card half slot \$45; 1-IBM Comp. Parallel Printer Card \$15; 1-AMPRO Z-80 CP/M System 4 Mhz 64K 2 drives/terminal/printer/software plug and go \$450; 1-SWTPC 6809/SS-50 system full memory 3 disks/software \$300.

CONTACT: Bruce Loss, WA3YUE  
Work: 215-542-6405  
Home: 215-947-4166

FOR SALE: MMT 144/28R - \$250; MMT 432/28S \$195; Mirage C1012 - \$190; Two Telrex 2M814 - \$150 (you pick this up)

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

FOR SALE: Yaesu FTJ700 6 mtr. transverter for FT757GX, FT707 or can be modified for other rigs \$200. Terminal (Keyboard-monitor) RS232 - Great for Packet. Model-lear Siegler ADM-5 \$30. Radio Shack quick printer \$25.

CONTACT: Mike, N3BBI  
Phone: Wkdays 7AM to 3PM=215-767-5891; After 4PM & Wkends 717-325-3580

FOR SALE: 11 Ele KLM 2 mtr Yagi \$15; 14 ele KLM 220 Yagi \$20.

CONTACT: Phil Miguelez, WA3NUF  
Phone: 215-675-4277  
201-922-8585 work

NOTICE: HAM BUERGER HAS MOVED. NOW LOCATED AT 417 DAVISVILLE ROAD, WILLOW GROVE, PA. 19090  
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FOR SALE: Kenwood 2M/70 CM TW4000A KPS-7A Pwr Sply & SW 100A SWR mtr - \$450 firm. Kenwood TH-31/AT HT w/charger & extra battery- \$130.... Hy-Gain Beam - 2M - 3 element. Cushcraft Beams:- 70CM 6 el - \$15; 1-1/4 7 el \$15.

CONTACT: Ed Noll, W3FQJ  
Phone: 215-822-0454

COMMERCIAL AD

LOOP YAGIS: 902 Mhz 33 element \$80 kit, \$97 assembled and tested. 1296, 45 element \$80 kit, \$97 assembled tested. 1296 - 55 element (New "Super Looper") \$95 kit, \$119 assembled and tested. 2304 - 45 element \$70 kit, \$89 assembled and tested. Also, available: Element and hardware kits for above, 2 and 4 way power dividers, stacking frames, and power dividers. Discount on complete arrays. Solid State Linear Amplifiers, 13.8 V.D.C.: 1296 Mhz 8W in 35W out \$305 (\$210 in kit form) 1 watt in 18w out \$255. 902 Mhz 10w in 40w out \$305, 1 watt in 20w out \$255. Coming Soon: 65 watts solid state linear for 1296. GASS FET PREAMPS: Under 1dB N.F. 902 \$80, 1296 \$80, 2304 \$139. LMW Microwave Transverter Kits; 1296 1 watt \$170, 2304 0.4 watt \$219 preamp \$63. Universal 1 Ghz L.O. kit \$44 less xtal 700-800 Mhz L.O. kit \$47. Xtals available. Write for complete catalog: DOWN EAST MICROWAVE, Bill Olson, W3HQT, Box 2310 R.R.I. Troy, ME 04987 (207)948-3741.

\* \* \*  
FOR SALE: Mirage C1012 220 MHz amp. 10 watts in/ 120 watts out - excellent cond. - \$200 Hustler 3 el 6 mtr beam - brand new in box - \$40.... Brother EM-401 electric typewriter w/memory(hvy duty model) - excellent cond. w/manual - \$400. Euro-furniture systems 3-piece operating position. Piece #1:60" x 30" heavy duty operating table; Piece #2: 48" x 18" x 25" heavy duty table w/rollers; Piece #3: 2-drawer file w/rollers, disassembled in minutes -\$200  
CONTACT: Harry A. Schools, KA3B, 1606 S. Newkirk St., Phila., PA 19145- Phone:215-468-1512

May 3, 1988

Mt. Airy VHF Radio Club, Inc.  
c/o Harry B. Stein, W3CL  
2087 Parkdale Ave.  
Glenside, Pa. 19038

Dear Pack Rats:

Your most generous donation of \$1,000 has been received at League Headquarters. On behalf of the Officers and Directors I want to thank you for leading the way in our W1AW Renovation Fund Drive.

Our plaque vendor is in the process of preparing personalized plaques for W1AW Kilowatt Club Donors. We expect to have the plaque on the way to you in about 4-6 weeks.

Again, thanks for your help in reaching our goal of a major renovation of W1AW facilities.

Sincerely yours,

David Sumner, K1ZZ  
Executive Vice President

\* \* \*

#### JUNE CONTEST REPORT

With only a few weeks left before the starting gun goes off there is still plenty of work to be done and quite a few of you out there that we haven't heard from yet! Here's a quick summary of what's been happening:

BAND CAPTAINS:	50 Mhz - W1YHO	903 and up - WA3AXV/WA3JUF
	144 Mhz - WB3JYO	Rovers - WC2K/N3BBI
	220 Mhz - N2SB/WB2YEH	Power - WA3YUE
	432 Mhz - WB3KRW	

And a special appearance by Chef Al - K3EOD

#### CONTEST WEEKEND SCHEDULE:

Fri. 6/10 - Arrive at 12 Noon  
Sat. 6/11 - The main event and fun, frivolousness.  
Sun. 6/12 - a chance to really embarrass yourself.  
Mon. 6/13 - Take down and clean-up

Yes, there will be a dog show on Saturday!!

Help make W3CCX/3 the Number 1 Multi-op June Contest Station. It can't be done without every club members help. Just making a contact on all bands could make the difference. See you in June!!

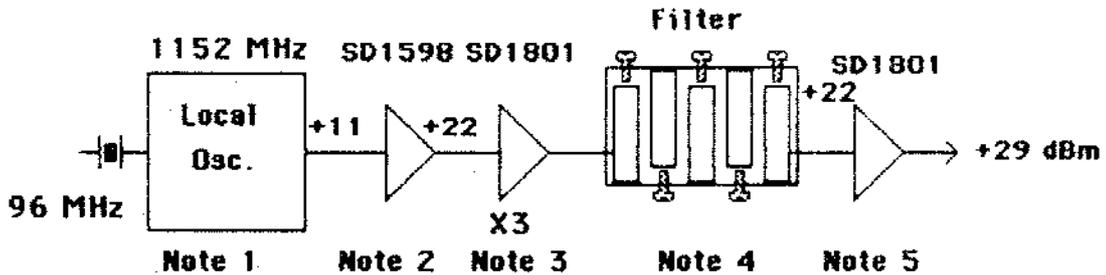
The "Unofficial" Chairman  
Phil Miguelez, WA3NUF

\* \* \*

#### DX-PEDITION TO ST. PIERRE & MIQUELON

I will be operational on 50 MHz from this location using the call FP/KA3B. Dates of operation will be June 6th - June 13th. St. Pierre is located off the coast of New Foundland in grid square gn 16. Equipment will be an ICOM IC551D at 80 watts with a 5 element beam. I will be calling and monitoring on both 50.110 and 50.125 Mhz as much as possible for anyone that may need me for a new country and/or grid square. If anyone wishes to QSL, please enclose an SASE. 73, Harry KA3B

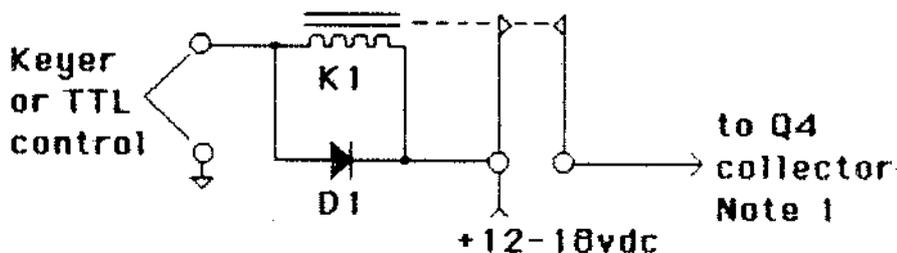
## 3456 MHz Beacon Transmitter



### Reference Notes:

- Note 1: 1152/1268 MHz L.O., WA3JUF, 1984 Rev C
- Note 2: 900-1300 MHz Linear amplifier, WA3JUF, 1983
- Note 3: X 3 Multiplier to 3456 MHz, WA3JUF, 1987
- Note 4: KA1GT, May 1984 QST, taps @ 0.2" from cold end
- Note 5: 3456 MHz 1 Watt amplifier, WA3JUF, 1987

CW operation using an isolated keying circuit as follows:



D1=1N4148

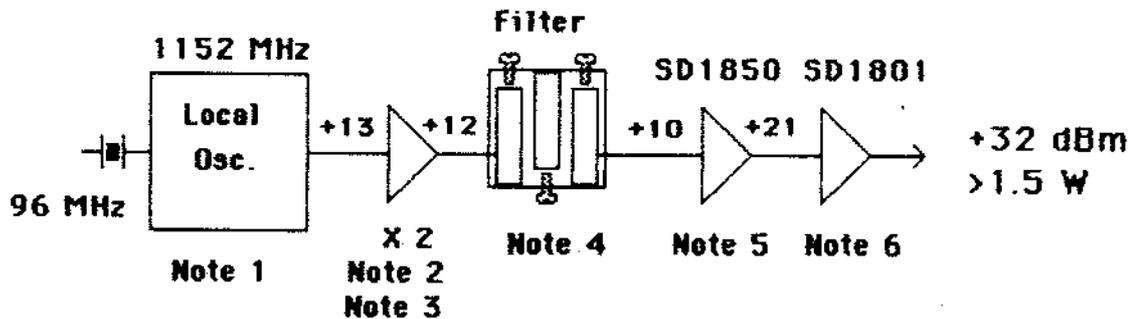
K1=Reed Relay

Hamlin # HE721A05-00

WA3JUF

D. Mascaro 1987

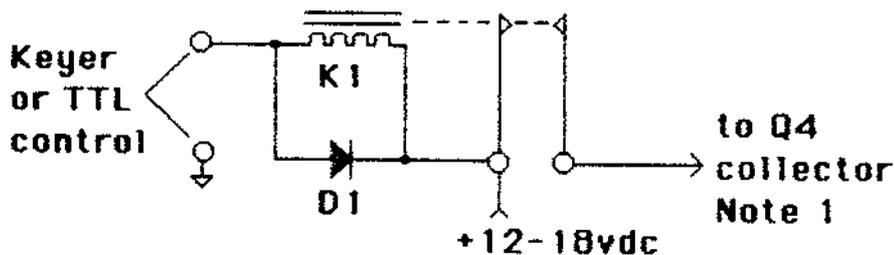
## 2304 MHz Beacon Transmitter



### Reference Notes:

- Note 1: 1152/1268 MHz L.O., WA3JUF, 1984 Rev C
- Note 2: 2160,2304 MHz SD1598 doubler, WA3JUF, 1984
- Note 3: 2160,2304 MHz doubler, WA3JUF, 1987
- Note 4: W2CQH, Jan. 1974 QST, taps @ 0.4" from cold end
- Note 5: 330 mw Class 'A' amp for 2.3 GHz, W3HQT, 1984
- Note 6: 1-2 watt Class 'C' amp for 2.3 GHz, WA3JUF, 1985

CW operation using an isolated keying circuit as follows:



D1=1N4148  
 K1=Reed Relay  
 Hamlin # HE721A05-00

WA3JUF  
 D. Mascaro 1984  
 Rev 1987 Note 3

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