PACK RATS



CHEESE SE

CLUB CALL: W3CCX

BITS



MT. AIRY VHF RADIO CLUB, INC.

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

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

FEBRUARY, 1986

NUMBER 2

THE PREZ SEZ

Well, the 1986 January VHF Sweepstakes is history. I'd like to thank Dave, N3CX for his enthusiasm as Contest Chairman. In addition, everyone should be congratulated for the excellent turn out as the Rats could be heard from 50 Mhz to 10 Ghz. Conditions were good and we were even treated to an early Sunday evening "E" skip opening.

The January meeting brought many interesting sagas from the members. Congratulations to Pat, WB3DNI for winning this years Crying Towel. If anything, we've learned from this

meeting that losing your frequency during a Contest is a criminal offense.

February meeting brings one of the most interesting meetings of the year as it is the annual "Home Brew Nite". This meeting shows that VHFers are not just appliance operators. So, dust off your latest creation and tell us how well it does or doesn't work. As usual, everyone is welcome, so bring a friend.

73, Mike, WB2RVX

* * *

A NOTE FROM N3AHI - JIM HOLT

The 4-Landers VHF/UHF Group too has installed a 100 watt, 220 Mhz repeater at its Contest Site on 4774 ASL Mount Toxaway in North Carolina (Grid square EM-85). Input/output frequencies are 223.12 - 224.72. Call sign is K4MSK/RPT. It is hoped that in addition to serving the needs of area VHF DX-ers, the signal will be of value in spotting long haul path openings to other areas.

* * *

IN MEMORIUM

Victor Lees, W3NKD, a charter member of the Club, became a Silent Key in Jan. 1986. Sophia Harrison, the widow of Ken Harrison, W3CPT, passed away in Dec. 1985. Edith Grace, the wife of Hal Grace, W3HFY, passed away on Jan. 23, 1986.

OUR CONDOLENCES TO THE FAMILIES

Pack Rats XHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC.

Philadelphia, Pa. and is published monthly.

SUBSCRIPTION RATE - \$3.00 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:

vy a silono pyrostani i mamist

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

PRINTER:

WB2VLA, DAVID POWER 609-882-1040

CYPIST:

WASTEM, MARSHA LISSAUER

FRUSTEE OF THE CLUB CALL - W3CCX: WA3AXV, RONALD WHITSEL 215-355-5730

WARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE 609-783-9478

CLUB HISTORIAN:

MONDAY NIGHT NETS

W3CL, HARRY B. STEIN

7:30	PM -	50.125 MHZ	W3CL
3:00	PM -	144.150 MHZ	W2EIF
3:30	PM -	222.98/224.58 MHZ	K3GAS
3:45	PM -	220.125 MHZ	KS2T
1:00	PM -	432,110 MHZ	K3IUV/K1PXE
1:30	PM -	1296.1 MHZ	·

NET CONTROL

ACK RAT REPEATER 222.98/224.58 MHZ/ W3CCX OCATED IN CHURCHVILLE, PA.

OFFICERS: 1985-1986

PRESIDENT: WB2RVX, MIKE GULLO VICE-PRES: WAZOMY, GARY HITCHNER COR.SECY: W3CXU, JOHN ALLEN REC.SECY: W3NSI, LYN ROWLAND

TREASURER: K3GAS, DOC CUTLER

DIRECTORS: WB2VLA, DAVE POWER (EX-OF)

N3CX, DAVE HACKFORD (2 Yrs) WA3JUF, DAVE MASCARO (2 Yrs)

WA3AAJ, JIM.WARD (1 Yr)

WB3IND, GEORGE McMAHON (1 Yr)



THE AMERICAN RADIO RELAY LEAGUE

OST

HUGH A. TURNBULL, W3ABC

Director, Atlantic Division

8903 RHODE ISLAND AVE. COLLEGE PARK, MD. 20740

(301) 927-1797

1-302-478-2757

${f AMATEUR}$ and ADVANCED COMMUNICATIONS

K3WA

G. B. WALLS

3208 CONCORD PIKE (RT. 202) WILMINGTON, DEL. 19803



Pennsylvania Institute of Technology

PAUL D. MERCADO

Chairperson, Drafting Design Department

(215) 565-7900

Rose Vailey-Notce Dame Campus 800 Manchester Ave., Media, Pa. 19063-4098

FOR SERVICE CALL (215) 672-3955 12151 SZL 0304



. MICHAEL MCMACKIN

PEG(STERED FOUNDATION & REATING RAPHROOM INSTALLATIONS . SUFFITRIC GRAIN CLEANING

1307 Bu TOWN OWN EINE CONDICTION TA TRAFE. 2405 PARKSIDE AVE. MATRORO, PA 19040

CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

FEBRUARY									
1	Need something to add to your wish list - visit the Philadelphia Boat Show at the Civic Center.								
2	Ground Hog Day - you already know the story about the shadow. We won't repeat it butwe sure hope that								
8	Chinese New Year - The Year Of The Tiger								
8-9	For our southern readers - Miami, Florida Hamfest								
12	Ash Wednesday								
12	Lincoln's Birthday								
13	Board of Directors Meeting - QTH: W3NSI, Lynn Rowland, 926 Tustin Avenue, Phila., Pa. If lost: 742-7695. Directors and interested club members always welcome.								
14	St. Valentine's Day - better not forget the other half A few kind words and some goodies solve many a problem.								
15-16	ARRL International DX Contest - CW. See Dec. QST Page 93								
17	Washington's Birthday (Observed)								
20	General Club Meeting - Southampton Free Library, 8 P.M. Topic: Home Brew Nite: There will be five catagories with a first and second place prize being awarded for each category: (a) Most Technically Oriented (b) Most Practical/Useful (c) Most Complex (d) Largest Kluge (e) Most Worthless. This is the time and place to show off those new projects that have been abrewing all year long. Show them with pride to your peers. The Mario Raffle, Frankie's Silent Auction, Free Refreshments.								
22	Maple Sugar Family Day. Annual tapping of the trees and other family activities at Taylor Arboretum. Something good to see								
22	If you missed the big parade or didn't want to stand outdoors - here is your chance to see the Mummers in person at the Civic Center.								
23	Vienna Virginia Winter Hamfest								
23	Lancaster Hamfest - First one in the local area. Guernsey Bay Barn, Route 30, This side of Lancaster. Usually a very nice hamfest and the seasons' opener.								
25	Just to make your month - Federal Income Tax established in 1913, and it is about 45 days till yours is due!!								
	Halley's Comet is getting closer - have you seen it yet???								
	DUES ARE DUE DUES ARE DUE DUES ARE DUE Mark your calender - LADIES NITE MAY 31st!!!!!!								

NEW PRODUCTS OF INTEREST TO HAMS By Lyn, W3NSI

- 1. REGENCY HX 1200 SCANNER: The new HX 1200 is the same size and looks the same as the HX 1000 that it replaces. There are a number of changes in the new unit. It now has 45 mem. channels instead of 30, and, any of these channels are available on direct access. It is not necessary to go through the whole series to get back to the one you want. AM is now available in a new frequency range covering the aircraft band at 118-136 Mhz. Scan rate is either 6 or 12 channels per second, by push button selection on the front panel. Freq. range is as follows: 30-50 Mhz (act. cov. 25.6 60), 118-176 Mhz, 406 512 Mhz (act. cov. 405 520). For ham use, the HX 1200 covers the FM 10 meter band and 6 meters FM, 2 meter FM, and 440 FM. Unit comes with case, rubber duck ant. nicad battery pack and charger, and earphone. Price List \$370 Avail. \$215 (see page 174 Jan. QST.)
- 2. NCG CO. HAM ANTENNAS: Two trap vertical antennas are now available from NCG. The first is the HF-3 WK which covers the new WARC bands only at 10, 18 and 24 Mhz. It is about 15 feet high and rated at 1 KW at 50 ohms imp. SWR is rated at 1.5 max over the bands, not a big problem considering the width of these WARC frequencies. The second antenna is the HS 670 (as in Kenwood TS 670) and it covers the 7, 21, 28 and 50 Mhz bands. Like the first unit, the 670 has two traps in the vertical section. However instead of wire radials it uses 4 self supporting rods, each resonant on one band. It appears that all except the 6 meter radial have a loading coil, at the point where they are attached to the vertical element. Power is rated at 300 watts on this antenna and the length is about 11 feet. Price \$185 (not cheap, but the #670 is the only thing like it in the U.S.) NCG Co., 1275 N. Grove Street, Anaheim, CA 92806
- 3. YAESU FT 103R 220 HT: The #103, like its brothers for 144 and 440, features an output of 2 1/2 watts, and is available with a tone pad at extra cost. One thing not found on many of the HT radios is an S meter which reads power out on transmit. Built in VOX can be used with the YH 2 mic/headset for no hands operation. This would lend itself to mobile use with the MMB 21 rig holder. This holder has a lip that slides into the window slot on the car door, which gives the rubber duck antenna on the HT a fairly clear shot through the window. Price \$265 (\$270 w TT)

THE ARRL LETTER PRB-1 WINS ONE FOR AMATEUR RADIO!

The US Court of Appeals for the 6th Circuit has ruled in favor of rafio amateur WM4T in the case of Thernes v. City of Lakeside Park, Kentucky. The lower court, the US District Court in the Eastern District of Kentucky, had upheld a municipal ban on amateur antennas because they were not specifically permitted as accessory uses within the city. The Appeals Court majority opinion found that the district court's judgment should be vacated, and it remanded the matter (sent the case back) to the district court for reconsideration. The dissenting judge of the three didn't think this strong enough: he would end the case at once by reversing the lower court and declaring the city's ordinance unconstitutional. The real hero in this action? FCC's Memorandum Opinion and Order in PRB-1, the release of which was expedited in the hope of turning the tide in the Thernes Case.

So, okay -- it's not "over" yet, because the lower court must reconsider its verdict as ordered by the Appeals Court. We hope that this will be a matter of course. And there's the matter of recovery of legal expenses by the plaintiff appellant. But it's safe to say that PRB-1 works. Which case is next -- and where?

the larger of the entire control of the Market entire the con-

- 4 -

SWAP SHOP

WANTED: Kenwood TV506 6 mtr xverter any condition.

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

215-483-2030

FOR SALE: Cassette tapes 3 for \$1. Empty 5 in. tape reels 6 for \$1; Yaesa No. 40 Kerosene Heater - Center of room type \$15. 432 Mhz converter, Park type \$20. Funk & Wagnall new standard

Encyclopedia 26 volumes \$15. CONTACT: Doc Cutler, K3GAS Phone: 215-635-1078

FOR SALE: Computer System Package - Radio Shack color computer 64K, disc drive, TP10 printer like new w/software, books, cartons inc. \$275. Drake TR22 & Heath HW16-\$100 takes both.

CONTACT: Russell Sutton, W3MY Phone: 215-860-1383

FOR SALE: Inventory of VHF Equipment at substantial savings - i.e. Amps for 144,220, 430 Mhz; Santec products and some other items.

CONTACT: K3WJB, Drew

Phone: 215-331-3014 after

1 PM or evenings.

FOR SALE: Yaesu FT221-2 mtr AC&DC all mode xceiver w 145 Mhz repeater set-up \$295. Kenwood 6 mtr all mode Inc. FM & 5 channel scanner w/split VFO - 21,24, 28 & 50 Mhz bands \$375.

CONTACT: Charlie, K3BCV - 847 N.
LaCrosse St., Allentown, Pa.

17103

Phone: 215-432-2805

FOR SALE: Yaesu 480R - 2 mtr. all mode w/up & down scan, Mic - good condx. \$300

CONTACT: Frank, K3TRM

Phone: 717-636-0227

FOR SALE: Heath SB-104A w/CW filter, no spkr. supply, exc. condx. \$200 or B.O. Swan 500 w/ spkr, supply & DlO4 mic belongs to K3KTY \$300 or BO.

CONTACT: Mike, N3BBI

Phone: 717-325-3580

FOR SALE: Icom IC27-H - 2 mtr FM (45 watts) mint \$250; Icom 505 - 6 mtr SSB/CW (10 watts) mint. \$225.

CONTACT: KA3B, Harry A. Schools 1606 S. Newkirk Street Phila., Pa. 19145

FOR SALE: Maki Denki 1296 Linear Amp. 1 watt in-10 out; 2 watts in - 20 out \$200. WANTED: New or used old style KLM 2 mtr 16 ele. beam - not LBX model.

CONTACT: Ron, KB3QM - P.O. Box 73, Bethel, DE

19931

Phone: 302-875-7373

FOR SALE: Hewlett Packard model 618B - 3.8 to 7.6 Ghz signal generator - w/manual \$50. Lavoie Spectrum Analyzer - 10 Mhz to 44 Ghz w/manual \$100

CONTACT: Ron, K3ZKO

Phone: 215-379-5338

FOR SALE: Hammurlund HQ-180 general coverage rovr \$200, has built in clock, vy good shape. Heathkit: HW-16 3 band CW, xcvr, 75 watts (20,40,80 mtr) \$65; HR-10B ham band revr 10 thru 80 \$55; SP-600 external spkr w/cabinet \$25. sixer, 6 met. xcvr \$10; Console..clock, P.P., swr etc. \$50; Heath SB310 rece. \$120. Drake: TR-6 6 mtr xcvr \$325; MS4 spkr \$45; FL-250. FL-1500, \$40 ea. NB-4 noise blanker for R4C \$110: NB-7 for TR7, new \$65; Aux-7 board for TR-7 \$65. MISC: Ham Keyer 5A \$35; Heath HA-10 keyer w/ paddle \$35; Utica 650 VFO \$10; Hallicrafters mobile spkrs. \$25 ea. SBE-144 2 mtr xcvr \$75 xtal control. Kenwood TR-7950 2 mtr xcvr \$275; Yaesu SP-107P spkr/phone ptc \$55. Kenwood PC1phone/patch \$59.

CONTACT: K3UKW, Tony Musero Phone: 215-271-8898

COMMERCIAL ADS

George Washington Special - 1986 subscription to VHF Communications regularly \$18.00/year now for \$16.50 to Packrats and friends of Packrats. Order must be postmarked not later than 22 Feb. 1986. UV Comms P.O. Box 432, Lanham, MD 20706

Loop Yagis: 902Mhz and 1296 Mhz 45 element \$70; 2304 Mhz \$62.50. Also available assembled and tested. Power dividers, stacking frames available. Linear Amplifiers; 1296 Mhz, 1 watt in 18 watts out \$230; 2304: 1 watt in, 10 watts out \$300. Write for more information to: Down East Microwave, Bill Olson, W3HQT, Box 1655A, RFD 1, Burnham, ME 04922 (207) 948-3741.

From the American Radio Relay League, Tho., Basiscant Section Manager

January 13, 1986

Harry Stein, W3CL 2087 Parkdale Avenue Glenside, Pa. 19038

Dear Harry:

It's been reported that during the contest weekend, some VHFers were trying to operate on 145.0 Mhz. They were being bothered by some strange noises nearby and so turned on the linears. They supposed it was a leaky cable system making blatzing noises.

Well, the strange noise was packet radio digital data on 145.01, and the result of the voice activity nearby was devastating to packet communications. As editor of a major VHF club newsletter, might you be willing to publish in a forthcoming "Cheese Bits" something about the frequencies where packet radio operates? I think you'd be doing both packet operators and VHF contesters a favor.

Packet radio in the Delaware Valley (and usually elsewhere, too) operates on 145.01 145.03, 145.05, 145.07, and 145.09 Mhz. Voice operation in that part of the spectrum blows packet communications away. The packet equipment, as you may know, samples the channel and will not transmit until the channel has been silent for a specified length of time. When there is voice activity, such as contesting, that bleeds over into the channel, the packet equipment will NEVER transmit! If it does get a quiet period long enough to transmit, a later voice transmission will probably interfere. Packet radio re-transmits until error-free communications is achieved up to a certain number of tries. Then the communications "times out." Under interference conditions, timing out is almost inevitable.

Not all VHF operators are aware of the packet sub-band, so it's a case of needing to educate people. Nobody claims there is anything malicious going on. Packet operators and VHF contesters can all enjoy operating without bothering each other, if we can get the word out.

Any help you can give through "Cheese Bits" will be greatly appreciated.

73,

Kay Craigie, KC3LM ASM EPA

(Tnx Kay)

VISITOR - JANUARY 16, 1986 MEETING

KN3LQU - E. Rohrbach, Kempton, Pa.

* * *

NOTICE:

If you are interested in getting in on a procurement deal for 9913 coax cable and appropriate connectors, get in touch with Ron Whitsel, WASAXV as soon as possible.

CHANGE OF ADDRESS

W3PST - Woody Haldeman 125 Keeley Avenue New Britain, Pa. 18901 215-345-1890

WØRSJ - William Murphy 338 Paxinosa West Easton, Pa. 18042 201-234-6771 (work) 215-252-3956 LOGS SUBMITTED 59

	(PRELIMINARY) 1986 GROSS SCORE								1795584			
	CALL	50	BANDS 144	(CONTACT	432		RID S 1296	2	304		TOTAL :	TOTAL SCORE
	K3ACJE W3AJE W3AOG W3AOGA WA3AQA W2AGJ WA3AXV W3BBI	134 28 91 13 174 41 176 38	196 21 29 13 159 19 89 6 90 2 340 31 173 29	69 32 58 2 73 2 142 19	48 52 141 55 51	7 4 19	23 505	2 9 9	16	=== ; ; ;	52 55 30 25 121 121	24336 395 395 13890 10750 180 171820 45948
*	KSBPF WSCOJU WSCOJU WSCOX WSCOX WSCOX WSDLS	63 10 62 4 79 6 56 11 76 10	71 9 88 10 232 21 67 4 106 10 136 16 30 5	48 2 75 2 49 2 100 4 70 11 37 2	51 42 74 44 18	5 5005	25 37 14	2 62	10	2	30 1 14 2 22 33 44 1 16 1	15360 2100 13369 4710 17490 27808 3296 208
	K3DMA WB3DNI N3EAX W2EIF K3EPB K3E9J K3GAS	92 34 72 11 31 3 37 2	149 12 178 17 159 32 155 20 68 5 213 14 36 2	37 22 57 22 59 22 35 2 96 12 30 72 30 2	42 64 34 84 71 20	39 10 13 7 3	26 29 5	3 3 2			24 24 31 76 10 24 11	10056 14880 24244 41477 1590 11976 2123
	W2GGB K3GYS W3GFY W3JHHO WB3HHO WA3HIT W3HK	86 10 59 7	101 2 285 21 172 15 100 22 150 25	245524480 552554480 778	62 60 14	7 5	19 5	2			4 1 46 20 1 60 3	676 31142 4 6 00 26520 81 6 552 2175
*	WB3IGR W3IIT WA3IMT WB3IND K3IUV	98 14 93 18 51 6 80 9	176 16 186 15 22 2 103 11 166 13	102 6	66 65 103	258 14	13	2		1	15 38 43 20 46	20748 24295 584 3660 32016
×	WASIWT KSJJZ KASJJKI WASSJUP WSKKN WSLOM KSLYB	32 6 75 16 66 13 179 43 128 16 180 37 123 16	133 19 275 28 250 26 250 24	52 58 58 42 57 81 105 105 103	3136424 46674	37 10 12 13	19 19 47 38 36	5 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11 6	20	25 7 0 4 9 7 4 16 3	8225 17945 26040 29295 93360 61600 35072
*	KA3MGB K3MXM W3NSI WA3NUF AK3O WA2OMY WB2ONA K3PHY	59 3 109 22 80 12 203 52	9 32 116 12 100 16 182 21 393 15 151	46 2 73 2 85 17 86 10 134 18	51 111 82 141 38	5 17 8 20 6	41 33 44 3	637 1	13 10 12	NNN	17 19 80 56 137 22	1968 4539 6612 76080 47880 194266 4114
*	KB3QM WORSJ N2SB KS2T K3VIT WB2VLA K3VYG	146 46 345 74 108 16 51 7 52 5	43 15 757 52 159 18 37 5 94 14 68 7	50 2 48 13 168 21 423 10 23 45 65	74 40 214 34 24 33	17 5 30 7 2 3	7 19 57	5 2 11	15	4	104 192 192 5 9 26	1506 56680 4818 425088 21369 1179 7826 3750
*	WA3YDZ WA3YUE	153 24	58 8 925821 W3CCX - W	77 9	73	6 9 K3E	29 OD, WA	2 3FOF.	K3HW	, ;	69 69	1792 570 63

^{*} Multi-Ops: WB3IND - W3KM / W3KKN - W3CXU / WA2OMY - AA2Z / WA3YUE - K2EVW N2SB - KM3T, WB2NPE, WB2RVX, WB2YHA, WA2VYA, WB8ZAR + NET

TID BITS

Sunspot No. for December 1985 = 17.2 - Smoothed No. for June 1985 = 17.5.

It was good to see W3KM, Bill Benner looking well after his recent injury while trying to repair his roof antenna system.

Received the weekly report from our man in Florida, K3KTY right after the contest. Reports that there was nothing on 6 meters and very little on 2 meters. Enjoyed his recent visit in the Delaware Valley area.

Zack Schindler, N8FNR reports a recent purchase of an Icom IC-271A along with the AG-20 interval GAASFET pre-amp which was offered for \$1.00 when purchased with the radio (Amateur Electronic Supply) Tests showed that the noise figure wasn't that great, but for \$1.00 who can go wrong - hi!!

* * *

A NOTE FROM THE CONTEST CHAIRMAN

I appreciate the membership that got on for the contest and their efforts. I hope everyone had a good time - looks like the score is a good one.

See you next year in the Janury VHF SS.

73, Dave, N3CX

CONTEST HIGHLIGHTS (See Photo Page 10)

The January 1986 sweepstakes was one of the best fun events in our area - everyone reported unusual courteous operations on all the bands - a rather unusual event.

24 Pack-Rats operated on 1296 Mhz; 9 were on 2304 Mhz and N2SB got 903 Mhz and 10 Ghz going for the first time in a January Contest.

Single operators high three in the Chub were The "King" - WA3AXV; The "Prince" - WB3JYO; and the "Duke" - WA3NUF!!

Our multi-op stations racked up a total score of over 750,000 points.

Crying Towel winner WB3DNI suggests you should never leave your operating position to answer a telephone caller (a friend?) and lose your frequency spot.

Runner-up N3CX (Contest Chairman) wants you to know what a flock of grackles can do to a 1296 loop Yagi antenna system.

WB8ZAR, one of the operators at N2SB, still doesn't know the difference between meteor scatter and the popping sounds of someone eating popcorn in the shack.

WA3AQA reported rig break downs and antenna rotator problems right before the contest and everything cleared up miraculously just when the bell sounded at 1900 hours UTC. W3AJF, reported that this was his 36th January VHF SS participation.

KA3MGB after spending over \$1,000 on a new tower installation had his 726R breakdown before the contest. Don rushed to a supply house, bought a 2 meter rig and managed to work 9 contacts in 3 grids - say not so in mournful numbers!

W3CL read the following "Crying Towel" headline from the now defunct Phila. Evening Bulletin of January 17, 1968 -- "Pack Rat tears Flood West Oak Lane".

W3KKN, made an outstanding QSL card presentation to K3GAS for working each other on 1296 Mhz after many years of trying.

W3HK, did fairly well in the contest squeezing in contacts between nursing duties for his XYL Gracie. (Gracie is slowly improving after a recent stroke).

W3GXB finally came back into contest activity after an absence of 18 years. He had fun. K3EOD, operated at W3CCX multi-op station after an absence of 10 years from the VHF bands.

K3IUV, made a Video Tape of the "Crying Towel" meeting - it was fun viewing the tape with Berts' outstanding commentary at the wrap-up session at W3ZD's QTH on January 25th.

Many thanks to Dave hosting the meeting and the large turnout of club members who gave a helping hand.

BELATED CRYING TOWEL

On Monday, January 27th, Pete, K1PXE couldn't get out of his driveway due to a garbage truck parked there - tried to by-pass the block and got stuck in the mud - he didn't get to work!

FROM THE ARRL LETTER JANUARY 16, 1986 Gains and Losses at the Microwaves

FCC has added the 47.0 - 47.2 GHz, 76-81 GHz, 119.98-120.02 GHz and 142-149 GHz bands to the amateur rules. The Commission not only giveth, it also taketh away: removed from the Amateur Radio Service are the 1215-1240 MHz, 48-50 GHz, 71-75.5 GHz, 165-170 GHz and 240-241 GHz bands.

In addition, these WARC-79 related amendments, in PR Docket 85-23, change many of the interrelationships between the Amateur Radio Service and other radio services. These changes have been made to complete implementation of the Final Acts of the World Administrative Radio Conference, Geneva, 1979, which comprise and international treaty and which were ratified by the United States on September 6, 1983.

This action will be effective 0001 UTC March 1, 1986; watch QST for particulars.

CORRECTION AND ADDITIONAL INFO FROM KS2T

I have a correction for you. In the last Cheese Bits on page 8 there is written; "Jay Miller, KS2T, advises that G4GLT will be allowed a 24 hour use of 6 meters sometime in Mid March '86". This is not totally true, the following is true from information supplied to me by Dave/G4GLT. This is it' As of 1, February, 1986 we should have 24 hour operation here in the U.K. on 50 Mhz.

The guys in the U.K. who currently have permits to use 6 meters now will have use of the 6 meter band 24 hours as of 1, February not just G4GLT.

G4GLT also believes that in time 6 meters will be available to all hams in the U.K. I've heard that they already have 24 hour use of the band as of January '86. I've also heard that this 24 hour use will be restricted to 50 - 50.5 Mhz even though their 6 meter band is from 50-51 Mhz. Alse I heard that their power will be limited to what turns out to be about 160 watts output at the antenna. I'm not sure if thats DC or P.E.P.

I also received the MUTEK 6 meter transverter model TVVF 50a, it should be on the air by the time you read this, in time for the contest anyway. I'll give you the specs, but they are just typical performance data and seem to be on the conservative side. It is 12 1/4 inches wide, $6 \frac{1}{2}$ inches deep (7 inches counting the SO-239 sticking out) and $1 \frac{1}{2}$ inches high. Rubber feet, 2 BNC and a PL-259 connectors as well as the power. T/R connector are supplied with the unit. It can be RF switched or 'hard keyed'. It requires 13.8 volts at 4 amps. Typical performance data; RECEIVER: Noise figure 3.0 db, conversion gain +20db (gain control max.) A note on this Harry, the gain can be varied from 5 to 20 db so it can be "optimized" to the HF rig. Input 3rd order intermodulation intercept point Ø dbm, Bandwidth 50-54 Mhz +2 db. Transmitter; Power output 10 watts pep. Output 3rd order intermodulation intercept point

+55 dbm Harmonic spurious -65 db pep Non-harmonic spurious -65 db pep. Local oscillator; Frequencies 22 and 24 Mhz Accuracy +/- 1kHz at 20C Noise sideband performance -145dbc/Hz at 10kHz offset.

NOTICE

ANY AMATEUR who lives in or has ties with N.J. can have a packet of 500 attractive state QSL cards, at a \$3.00 charge for postage and handling. The design lets you insert your own call on the card. Make checks payable to the Department of Commerce and Economic Development, CN 820, Trenton, N.J. 08625-0820.

FILLER

Let us never forget that the government makes its money the old fashioned way ... they

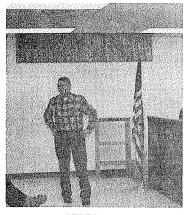
Nature makes blunders too. She gives the biggest mouth to those who have the least to say



KA3MGB



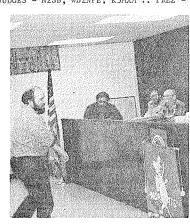
W3AJF



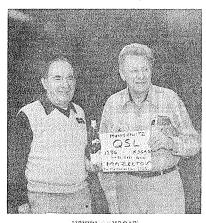
W3GXB



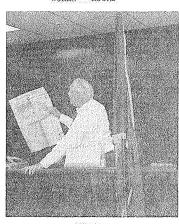
JUDGES - N2SB, WB2NPE, K3MXM .. PREZ - WB2RVX



CONTEST CHAIRMAN - N3CX



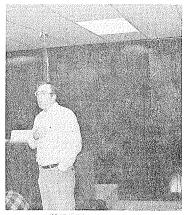
W3KKN - K3GAS



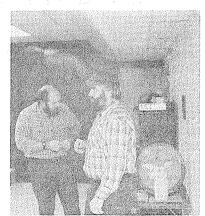
W3CL



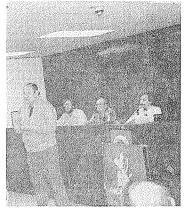
"CRYING TOWEL WINNER - WE3DNI



WB8ZAR



N3CX - WA3JUF



K3EOD

DOWN EAST MICHOWAVE

BURNHAM , ME 04922

the same of the his

Microwave Antennas and Amplifiers by W3HQT

902 1296 2304 3456 mHz.

Bill Olson

(207) 948-3741

Amateur Radio's Technical Journal **PO BOX 931**

FARMINGDALE, NY 11737

\$25 one year \$53 three years

NE 7-8329

GEORGE S. VAN DYKE, JR., P.E.

W3HK

4607 CONVENT LANE PHILA., PA. 19114



AMIL 5. GUMULA PRESIDENT

A. G. RADIO PARTS CO. 939 TOWNSHIP LINE RD. ELKINS PARK, PENNA. 19117

Authorized Distributor

(302) 328-7728 ORDER LINE 800-441-7008

Delaware Amateur Supply

"AMATEUR SALES AND SERVICE"

PAUL WA3QPX KATHY KA31YO

71 MEADOW ROAD NEW CASTLE, DELAWARE 19720

AMATEUR SALES & SERVICE (215) OL 9-5900

'HAM" BUERGER ING.

Communication Specialists

BOB HERSHMAN WA3ZID

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

215-342-5982

WA3HIT

Paul and Betty Rilling INCOME DIVERSIFICATION

5830 Weymouth Street -Phila., Pa.19120

The Ham Radio Publishing Group

Greenville, NH 03048 (603) 878-1441

HAM RADIO-the Technical Ham's Magazine. Ask for a free sample copy or our Book Catalog.

CALL DOC CUTLER (K3GAS) FOR YOUR ELECTRONIC NEEDS

NEW, RECONDITIONED, OR AS IS.

LOW PRICES

by appointment

215-635-1078

13620 NE 20th Suite D Box 4247 Bellevue, WA 98009

Harriet Soltoff Home: (215) 947-4483

xv1 K3IUV

Neshaminy TRAVEL SERVICE

2337 Neshaminy Blvd. Bensalem, PA 19020

BROWSING - THURS, 7114,911

Doy-Nite (215) 455-2121

FERTIK'S ELECTRONICS

Components & Equipment

LEON FERTIK

5400 ELLA STREET PHILADELPHIA, PA. 19120

LUNAR, MICROWAVE MODULES, ARCOS, ASTRON, KLM TAMA, TONNA F9FT

THE

VHF SHOP

TOM KQ3R 16 South Mt. Bauleverd Mountaintop, Pa. 18707

(717) 474-9399 M - Fafter 6:00 p.m. Weekends Anytimel

EASTSIDE SURPLUS SALES

12894 NE 15th PLACE BELLEVUE, WA 98005

(206) 453-0795

Carl Barish KC7ZC

A CANDY STORE OF PARTS FOR THE EXPERIMENTER.

(302) 328-7728 ORDER LINE 800-441-7008

Delaware Amateur Supplu

"AMATEUR SALES AND SERVICE"

ROB WA3QLS

71 MEADOW ROAD NEW CASTLE, DELAWARE 19720

WA3WLQ

RC/I

TAPPAN Gibson FEDDERS

Jenkintown & Glenside Electric Co.

220 YORK ROAD JENKINTOWN, PA. Turner 4-0375 - 4-1050 WA 7-4325

CARL BARISH

PRINTECH PRINTING 746-6000

