

# 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, 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

ARNS

VOLUME XXV

MARCH, 1983

NUMBER 3

## THE PREZ SEZ

Well, the scores for the January contest are all collected and have been forwarded to Newington. It looks like the "Pack" might have done it again. A claimed score of 1,337,--- is no shabby effort for a total of only 62 logs. Ron. WA3AXV did it again, 94K+. Wow! Congratulations and thanks to the other members who produced the other 61 logs for the "Pack Rats" effort.

Our "Homebrew" nite on February 17, 1983 was another successful event. Lots of excellent projects were exhibited. All of the exhibitors did outstanding jobs. The higher frequencies were well represented. We need to take note and plan to expand our stations to include possibly 1296 and higher.

It is good to hear our Monday Night nets doing so well. We are having a good number of check-ins; let's hear more! There are our nets; and, they need all of our support. Additionally, let us support the other nets that meet on nights other than Monday. We need more activity on VHF & UHF. Agree?

The annual "Ladies Nite" banquet is scheduled for Saturday, May 14, 1983. We need to have maximum participation this year. "Doc", K3GAS is running the show again this year. It is hoped that all "Pack Rats" are planning to attend. Remember we feature our annual Awards during this event. So, let's contact "Doc" and let him know that you plan to attend. Friends of the "Pack Rats" are also invited. This is a gala event; come out and enjoy yourselves.

See you at the regular meeting on March 17, 1983 at the Southampton Library.

Bill, WA2DPU

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 other-  
wise 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:

WB2VLA, DAVID POWER  
609-882-1040

TYPIST:

WA3TEM, MARSHA LISSAUER

TRUSTEE OF CLUB CALL W3CCX

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

PACK RAT REPEATER 222.98/224.58 MHZ  
LOCATED IN CHURCHVILLE, PA.

OFFICERS: 1982-1983

PRESIDENT: K3KTY, JOHN TATE  
VICE-PRES: WA2DPU, BILL SMITH  
COR. SECY: W3ZD, DAVE ZIMMERMAN  
REC. SECY: W3NSI, LYN ROWLAND  
TREASURER: K3GAS, DOC CUTLER  
DIRECTORS: W3ILT, HARRY BROWN  
WB2RVX, MIKE GALLO (2 yrs)  
WB2VLA, DAVE POWER (2 yrs)  
WA3JUF, DAVE MASGARO (1 yr)  
WA3NUF, PHIL MCGUEEN (1 yr)

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

3208 CONCORD PIKE (RT. 202)  
WILMINGTON, DEL. 19808



**Pennsylvania Institute  
of Technology**

PAUL D. MERCADO

Chairperson, Drafting Design Department

(215) 352-7100  
(215) 528-6998

414 SANSOM STREET  
UPPER DARBY, PA. 19082

Amateur Radio Equipment  
Sales & Service

(609) 386-2348

**D.P.U. ENTERPRISES**

Antennas • VHF Amplifiers • Accessories

**KLM**

**MIRAGE**

Bill Smith  
WA2DPU

47 Langdon Road  
Burlington, NJ 08016

CALENDAR OF COMING EVENTS  
Syllabus by Lee, K3MXM

ARCH

- Zodiac sign of Aires - The Ram. Birthstone - Aquamarine. Flower - Jonquil  
and my birthday - Big 60 coming up!
- 4 Split Rock ARC Auction - Friday Nite - 7 PM - VFW Post, Morris Plains, N.J.
- 5-6 ARRL International DX Contest - Phone - See Dec. QST Page 94
- 6 Old Bridge ARC Auction - Saturday 9 AM - K of C Hall, Old Bridge, N.J.
- 9 First Patent issued for manufacture of False Teeth - 1832
- 10 Board of Directors Meeting - QTH, W2AXU, Jack Power, 102 Upper Ferry Road,  
Trenton, N.J. 08628. 609-882-8811. Directors and interested parties always  
welcomed to participate and express their viewpoint.
- 12-13 QCWA QSO Party - Tune in and give the ole timers a few points and pointers.
- 12 Girl Scout Day - founded in 1912. Be sure to help them and order your boxes of  
cookies!
- 12 Shore Points ARC (SPARC) Hamfest - "4-H" Center - Egg Harbor City, N.J. A  
good hamfest and not too far away from most club members. Information and  
reservations - SPARC, P.O. Box 242, Absecon, N.J.
- 13 Delaware Valley Radio Ass'n Flea Market and Computer Show, National Guard  
Armory, Eggerts Crossing Road, Lawrenceville, N.J.
- 13 Standard Time Established in US - 1884
- 15 Today is the IDES OF MARCH - Julius Caesar slain 44 BC
- 17 The Wearing of the Green - everyone is IRISH today - St. Patrick's Day
- 17 General Club Meeting - Topic: Will be announced on the Pack-Rat Monday Nite Nets.
- Southampton Free Library - Street Road - Southampton, Pa. An open meeting to  
all amateurs throughout the area. Bring a friend. Frankie's Silent Auction -  
The Mario Raffle - Free Refreshments.
- 19 Saturday 11 AM till 4 PM. Philadelphia Area Computer Society (PACS) Game  
Festival LaSalle College - 20th and Olney Avenues, Phila., Pa. A good fun day  
especially for the youngsters. See the newest and latest in locally designed  
and operated games and systems.
- 19-20 Charlotte, NC ARRL Convention and Flea Market
- 20 For the Snow Birds - Orlando Florida Hamfest
- 21 First Day of Spring
- 6-27 Ramapo Mt. Spring VHF/UHF QSO Party
- 26-27 CQ Magazine WPX Contest - Phone
- 27 Penn Wireless Assoc - "The Phila. Hamfest " National Guard Armory Roosevelt  
Blvd. Southampton Road, Phila., Pa. A real good local Hamfest

(CONTINUED ON PAGE 5)

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. SSB/CW 2 AND 6 M MINI-TRANSCEIVER KITS: ACE Communications, Inc. is advertising a pair of VHF QRP rigs available as Semi-kits in knock-down form for easy assembly. The MX6Z and MX2 cover 50 KHz on each of two channels available on these tiny VXO controlled radios. Output is .2-.25 watt from the transmitter section. The receiver is a single conversion unit using a crystal filter at 7.8 MHz. Either set is about the size of a pack of king size cigarettes. Power is supplied by 6 AAA cells or a 9 volt battery. It is necessary to solder a few wires to switches and connectors and mount the sub-assemblies into the case. Price \$130. 2832 D. Walnut Avenue, Tustin, California 92680
2. TRANSMITTING POWER AMPLIFIER FOR 1296 MHZ: The VHF Shop in Mountaintop, Pa. is selling two types of 1296 tube type amps. The single tube version uses a 7289 tube and is rated at 60 watts out with 10 watts drive. The two tube unit is rated at 120 watts with 10 watts input. Both are supplied and priced less tubes and blower. P.S. voltage rated at 1000. Price 60w \$219, 120w \$302. Box 349, R.D. 4, Mountaintop, Pa. 18707
3. ACTIVE INDOOR ANTENNAS: The Electronics Overseas Corp. is selling three versions of a broadband (3-30Mhz) antenna and booster to be used for short wave listening in the HF range. Gain is rated at 14-20 DB. All units use a built in whip of either 47" or 63" length. The HFA 001 has a built in power supply operating from 110 Vac. The HFA 002 has an external transformer and can operate from 110 or 220 Vac lines. The HFA 003 uses a 9 V battery supply. Prices \$24/35/26. 170 Cedar Ave., Hawthorne, N.J. 07506 (no charge for shipping)

\* \* \*

UHF/VHF REPORT

By Joe, W2EIF

Not much to report for this period. It seems that the bands have quickly reverted to the precontest quiet conditions.

I am indebted to Ernie, W3KKN for a report of aurora on the weekend of Feb. 4,5,6 1983. He reports that the AU from his location was very good thru 220 MHz with excellent activity particularly on 2 meters. The AU extended South to the Virginia Beach area and Ky. He was able to work N4AR in Ky. with very good signals. There were lots of mid-West stations on, and the VE3 area was particularly active. No Es was reported, such as usually follows aurora openings.

The new Packrat 220.125 MHz net at 8:45 PM on Monday nites is picking up. There were 10 in the net on Monday February 14 - In honor of St. Valentine no doubt!

NOTE: There was a good opening on 432 Mhz over the Feb. 19/20 week-end. Contacts were made as far as Kentucky from this area - W3KKN, W3HFY and WA2DPU report. W2AXU reports AU opening.

\* \* \*

ANNOUNCEMENT

4th Annual Spring VHF/UHF QSO PARTY - 1983: Spring VHF/UHF QSO Party - Sponsored by the Ramapo Mountain ARC. This year the rules for the VHF/UHF contest are similar to last year's rules and current ARRL UHF contest rules. Please note that the band multipliers award higher scores based on band popularity (144-50-432-220-1296 and up). This change is based on comments received last year. The grid square and range scoring system has been retained based on proven results obtained from the 1982 ARRL UHF Contest. Range scoring is the equalizer!

S.A.S.E. to RMARC for log/entry forms. All who submit the required data will receive a copy of our newsletter with results. Mail forms to Ramapo Mountain ARC, P.O. Box 364, Oakland, NJ 07436 no later than May 1, 1983. Date and Time: From 2100 hours UTC, Sat. March 26, until 0400 hours UTC, Monday, March 28, 1983.

CALENDAR OF COMING EVENTS  
CONTINUED

ARCH

- 27 Palm Sunday
- 27 Baltimore ARC Hamfest - Md. State Fairgrounds, Timonium, MD.
- 29 First Day of Passover

MARK YOUR CALENDAR: May 14, 1983 Saturday Evening, Pack-Rat Banquet and Ladies Nite at the Warrington Motor Lodge, Warrington, Pa.

\* \* \*

VISITORS AT THE FEBRUARY 17, 1983  
MEETING

WB2ONA - Warren, East Brunswick, N.J.	KA2NYF - Janet, Deptford, N.J.
WA3TZH, Chris, Malvern, Pa.	K3GYS - Gus, Growfoot, N.J.
WB2BJH - Russ, Kinneelon, N.J.	K3BRS - Al, Lanham, MD.

VOTED TO MEMBERSHIP

K3GYS - Augusto H. Nicoletta (Gus) XYL - Barbara Ann  
RFD #2, 54A Raymond Avenue  
Atco, NJ 08004 (Crowfoot)  
609-767-3628

APPLICATION FOR MEMBERSHIP

WB2BJH - Russell J. Edmunds  
Palace Hotel - 18th & Parkway (Temporary)  
Phila., Pa. 19103  
215-963-2222 X1807

CHANGE OF ADDRESS

WB3KES - Doug & Wendy Simpson  
1626 S.W. Consumer Street  
Palm Bay, FL. 32905  
305-725-6738

\* \* \*

AMATEUR RADIO FELLOWSHIP MEETING

There will be an ARRL Q&A discussion on antennas at the March 21st meeting of the Greater Northeast Phila. Amateur Radio Fellowship at the Northeast Regional Library, Cottman Avenue opposite Gimbel's. On April 18th, Barry Weinstein will speak on Metal Detectors.

Programs for the radio amateur are held at the library at 7:00 P.M. on the third Monday of the month except holidays September through June.

Admission is free and there is ample free parking opposite the library. For further information call Al, W3AYJ on 725-2869.

\* \* \*

HOMEBREW NITE

Judges - W2EIF, W3IIT, W3ZD

Winners:

Most Miserable - K3GAS  
Best Construction - W3NSI  
Most Ambitious - W3HQT & WA3JUF  
Honorable Mention - WB2RVX (very humorous presentation)

Participants:

WA3AAJ - 220 tx converter; interface to Vic for CW & Rtty.  
WA3AXV - 1296 & 2304 preamps - 2 mtr linear amp.  
K3BRS - came up from Washington, D.C. area - showed tube type HF hi-pwr amp & transverter fed 220 linear amp.  
K3GAS - electronic type "spider" cable of blowing up flash cubes by remote control.  
W3HQT - 14 items covering 1296 & 2304 MHz  
WA3JUF - 6 items for 1296 & 2304 MHz  
WB3JYO - 220 tx mixer & 1296 local osc. (WA3NUF design)  
W3KKN - RF sniffer - preamp for counter  
W3NSI - Nicad battery - hi current source for opening up shorted cells. A smaller version. HT amp. & 432 2 stage linear.  
WA2OMY - 220 amp. using parallel 4CX 250 tubes - 500 W. out  
WB2RVX - 1296 amp (WA3JUF design) 432 amp (WA3AXV design)  
220 matching network ( presentation in comedy style)

\* \* \*

NOTE: Doc Cutler, K3GAS will be at the registration desk during the Dental Conclave at the Sheraton Hotel, 17th & Kennedy Blvd., Phila., Pa. from March 5 to 9, 1983.  
Look him up if you are in town!

\* \* \*

FROM ARRL LETTER 2/17/83

Today General Manager Sumner announced the appointment of Paul Rinaldo, W4RI, to succeed Doug DeMaw, W1FB, as ARRL Technical Department Manager upon Doug's retirement. Rinaldo, who currently edits QEX and serves as President of AMRAD, owns a consulting firm in Washington area. Paul and his family will be relocating to the Newington area in early May.

Sumner praised the work Rinaldo has done with QEX since its inception, and his work as a volunteer in promoting Amateur Radio technical development. He noted that Rinaldo has been particularly active in the development of packet radio and spread spectrum techniques for use by U.S. amateurs. Sumner said that Rinaldo had demonstrated leadership qualities that made him the logical choice to lead ARRL in the new electronic age dominated by computer technology.

\* \* \*

TID BITS

Sunwatcher, Jack Power, W2AXU reports the monthly Sunspot No. for January 1983 = 85.8 - Smoothed No. for July 1982 = 115.2

Steve Simons, KF6AJ (Ex-WA3WAS) came to the East Coast in time to multi-op with W3ZD during the January VHF SS.

Thanks to WA3YUE, Bruce for the computer printout of the club score for the VHF SS. The logs were mailed to the ARRL by Ron, WA3AXV.

It was nice to welcome an old friend of the Pack-Rats - Al, K3BRS came up from the Washington, D.C. area to join us at the last meeting.

(CONTINUED ON PAGE 8 )

SWAP SHOP

FOR SALE: KLM Echo - 2 2 mtrs - SSB/CW \$80;  
Drake T4XC- 10-160 SSB/AM/CW Xmtr \$250;  
Drake 2B/2BQ Rcvr - 10-80 \$100  
CONTACT: Dave, N3CX  
Phone: 215-679-7293

FOR SALE: TS 830S HF xcvr - 10-160 mtrs.  
digital readout. Like new condition \$695  
CONTACT: Jack Power, W2AXU  
Phone: 609-882-8811

FOR SALE or SWAP: Collins 32S-3 W/PS (we)  
Collins 51J3 (R388) (0.5 to 30 Mhz). RCA AR-8516  
(80 Khz to 30 Mhz) Heath HO-13 Ham scan.  
CONTACT: Gus, K3GYS  
Phone: 609-767-3628

FOR SALE: 2 mtr. 16el. KLM beam W/1:1 balun over  
\$100 value (new) \$60. VHF Eng. 20A at 13.8V pwr.  
sply. \$35. KLM PBL 4-150 2 mtr. Amp. \$50; Simpson  
Vom mod. 314 \$40.  
CONTACT: Bill Benner, W3KM  
Phone: 215-224-1489

FOR SALE: FM-3 20-1000 MHz frequency meter .001%  
accuracy \$35. HP 608B signal generator w/book -  
recently calibrated \$110. 1 KW homebrew 572B amp.  
80-10 mtrs. needs pwr sply - will supply plate  
xformer \$75.

WANTED: 6 mtr. gear SSB & CW  
CONTACT: Richard Prim, WA3IWT  
Phone: 215-355-1192

FOR SALE: Kenwood 700-SP w/desk mike  
\$250  
CONTACT: Jay, KS2T  
Phone: 201-244-7623

WANTED: 220 MHz FM xtal rig.  
CONTACT: George - WB3IGR  
Phone: 215-576-1897

\* \* \*

COMMERCIAL AD

QST...QST...QST...Now Available...  
LIMITED QUANTITY...Special Offer...  
\$9.90 will bring to you a Dual Headphone  
set with 3" speakers, Fully padded and  
adjustable. Frequency response: 18-30,000Hz  
Stereo or Mono switch built in with standard  
male phono plug also a pigtail "mini" mono male  
plug. This is a great set for amateur use and  
short wave listening. Enclose \$2.00 additional  
for U.P.S. shpg. & hand'lg. Until they're gone..  
super deal. Send money order or personal check  
(shipment will be made after check clears).  
K3UKW, Tony Musero, 1609 So. Iseminger St., Phila.,  
Pa. 19148 For details, (215) 271-8898. Get yours  
now.....73

FOR SALE: Used 6939 tubes  
WANTED: 10 PF per section miniature  
butterfly capacitor.  
CONTACT: Ed Barbacow, K3ZCY  
RD 1, Box 194  
Waynesburg, Pa. 15370

FOR SALE: MUST SELL!!! Radio Goodies!  
Kenwood TS 600 W/vox3; Kenwood 700 Sp  
w/desk mike; Tempo S1-T walkie/talkie  
w/leather case & rubber ducky; KLM 6 Mtr.  
80-100 W. linear amp., Lunar 2 mtr.  
80W. amp w/pre amp. COMPUTER GOODIES!!  
Ohio Scientific GZ-4P computer & 24K  
expansion memory board w/full  
documentation; Acoustic coupled 300 baud  
modem; direct connect modem 300 baud  
auto ans./org., printer 200 CPS dot  
matrix tractor feed - full width  
Commercial quality.

CONTACT: Bruce Loss, WA3YUE  
Phone: 215-947-4166 (Home)  
215-542-2966 (Work)

WANTED: 2 mtr. and/or 6 mtr. ant. tuner  
(even if not in working order)  
CONTACT: John, WA3MXX  
Phone: 215-332-9114

WANTED: Help! I want to get high! Get  
me on 1296 - sell me your 1296 rig - Don't  
delay!

CONTACT: Jim, WA3AAJ  
Phone: 215-887-1062

\* \* \*

COMMERCIAL AD

The VHF Shop sells Lunar, Microwave  
Modules, Arcos, Astron, Klm, Tama,  
Tonna F9FT, UHF units/parabolic, Santec,  
Tokyo Hy-Power Dentron, Mirage.  
CONTACT: Gerry K3MKZ Box 349, R.D. 4,  
Mountaintop Pa. 18707. Phone:  
717-868-6565 - M to F after 6 PM  
Weekends Anytime!

TID BITS  
CONTINUED

Received a letter from WB3KES/4, Doug Simpson now in Palm Bay, Florida. He spent about eight hours of operation during the VHF SS - No Florida stations worked - managed to hook W. Mass. and Ohio. He says that TV Channel #2 about 100 miles away - no cable in area - doesn't know if thats good or bad! He and Wenday send 73 to gang.

Tom Gibson, W3EAG is President of the Pa. Chapter of Associated Public Safety Communications Officer Inc. in his acceptance speech the following item is interesting:

"We must be prepared to keep pace with the technology with which we work. For many years, there has been an evolution of communication equipment but today we face a revolution in equipment design. The equipment has become digitized, syntehsized and computerized to the point that some of us are completely mesmerized." Congratulations Tom.

\* \* \*

FROM ARRL LETTER 1/20/83

ARRL President Vic Clark, W4KFC, will discuss "The Future of Amateur Radio" on the Teleconference Radio Net Thursday, March 3, at 8:30 P.M. EST. Amateurs are invited to participate in full two-way contact with Vic via teleconference interconnection of Amateur Radio repeaters. This will be the largest and most widespread interconnection of radio repeaters ever accomplished. It demonstrates both the power of advanced multipoint teleconferencing to reach people wherever they are and the technical sophistication of ham radio.

Repeaters currently scheduled to tie into the net include:

Phoenix	AZ	KA7DSY/R	147.36
Avon	CT	W1NI/R	224.78
Roswell	GA	N4CLA/R	145.47
Wichita	KS	WR0AAB	146.82
Minneapolis	MN	W0TN/R	146.64
Long Island	NY	WB2NHO/R	147.375
Beaverton	OR	W7LJN/R	147.32
San Antonio	TX	WB5FZA/R	146.70
Milwaukee	WI	WB9ZCT/R	145.13
Log Angeles	CA	W6VIO/R	224.04
Washington	DC	WD4IWG/R	147.21
Chicago	IL	W9SRO/R	147.15
Billerica	MA	WR1ABP	147.12
Cherryville	NJ	WB2NQV/R	147.375
Rochester	NY	WB2AQQ/R	145.11
Dallas	TX	K5JD/R	146.97
Madison	WI	WR9AVT	146.76

\* \* \*

NOTE: DELAWARE VALLEY HAMS SHOULD MONITOR THE CHERRYVILLE, N.J. REPEATER, WB2NQV/R

ON 147.375 IN ADDITION LISTEN TO THE MID-ATLANTIC ARC REPEATER, WB3JOE/R, 147.66/.06 LOCATED IN RADNOR, DELAWARE COUNTY, PA.



JANUARY 1983 VHF SS CONTEST SCORES

WA3AAJ	32112	W3HFY	43200	K3MXM	16464
K3ACR	11968	WB3HHO	7756	WA3NFV	1968
W3AJF	8358	WB3HHP	3668	K3NHX	13944
WA3AQA	18648	WA3HIT	3048	W3NSI	9036
N2ASC	52338	W3HK	11400	WA3NUF	41496
W2AXU	5240	W3HMU	27918	WA2OMY *	75740
WA3AXV	94000	W3HQT	57216	K3PHY	7392
N3BBI	20760	W3IIT	31266	KB3QM	748
K3BPP	22800	WA3IMT	2584	K3QQ	11840
W3CCX *	26542	WB3IND	4470	WØRSJ	34320
W3CL	23352	K3IUV	37440	WB2RVX *	41850
W3CXU	6270	WA3IWT	6000	WB2RXM	1924
K3DLS/M	1728	K3JJZ	20930	WA3SPR	1898
K3DMA	10548	WA3JUF	34488	KS2T	11040
WA2DPU	78744	WB3JYO	32700	WA3TEM	4472
W2EIF	41040	W3KKN *	65600	WA3TSE	5586
K3EPB	4650	W3KM	5000	WB2VLA	14900
K2EVW	9432	K3KMN	1848	K3VYG	16412
K3GAS	10200	K3KTY	15776	WA3YUE	37232
K3GFF	3302	K3LYB	9342	W3ZD *	44268
W2GGB	3978	K3MWV	37990		
				Total	1,337,180

\* MultiOp Stations:

W3CCX - WB3CPW, WB3CTP, K3DLS, KD6KD, WA3FOF  
 W3KKN - K3KMN  
 WA2OMY - AA2Z  
 WB2RVX - KA2NYF  
 W3ZD - KF6AJ

\* \* \*

A FEW VHF SS COMMENTS

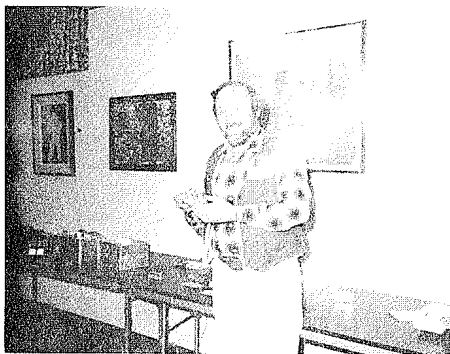
All out effort - WA2DPU was really pushing! Activity was good on 1296 but poor conditions to the North (snow) produced little long haul to New York and New England.

New format is really good for the Jan SS; the only drawback is not knowing how the competition is doing. Please no grid squares for this contest (the reduced book-keeping was a welcome relief.  
 73, WA3AXV

The dropping of the serial NR not particularly earth shaking - feel that we should restore the NR as distinctive to the Jan Contest. The only ones it helped probably were the scatter ops (they already knew the section and only needed the sig report). Sig reports are easier to read as opposed to unknown NRs. Have heard rumors of changes to incorporate grid squares instead of sections. In my opinion this would be a mistake in any of the big three tests - namely JAN., JUNE and SEPT. test. (Would not mind it in UHF Test or Aurora contacts).

Any one who ever worked one of the "ZipCode" contests and had any large NR of contacts was faced with a monumental calculation task since almost every contact was a multiplier. I know, I tried it once! In my opinion, the additional effort would more than double the time it now takes to properly compute a final score and would certainly contribute to less contact activity. Finally, if you want to experiment - try it first in the November Sweepstakes instead of VHF and start a r.t.

W2EIF



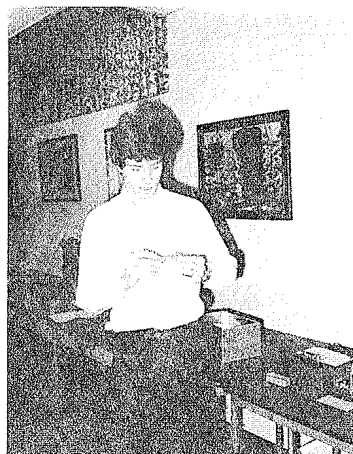
WA3AXV - RON WHITSEL



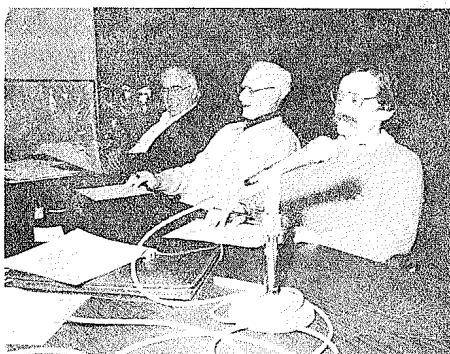
W3KKN - ERNIE KENAS



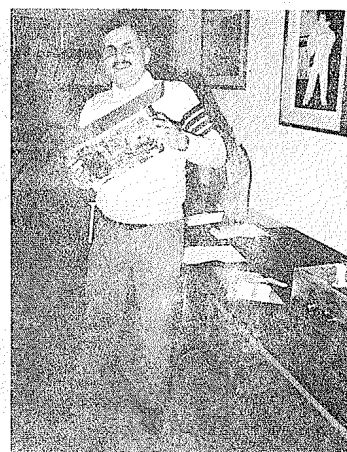
WA20MY - GARY HITCHNER



WB3JYO - PAUL DREXLER



THE JUDGES  
W3ZD, DAVE ZIMMERMAN - W2EIF, JO KILGORE  
W3IIT, HARRY BROWN



WA3AAJ - JIM WARD



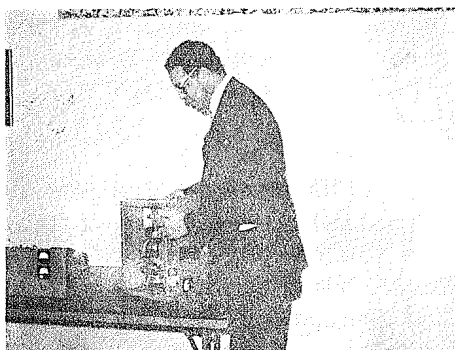
W3NSI - LYN ROWLAND



W3HQT - BILL OLSON



WB2RVX - MIKE GULLO



K3BRS - AL WHITING



K3GAS - DOC CUTLER



W3PMA - PAUL MASCARO

H O M E B R E N - - 8 9

215-947-6670

# MARKETLINE™

SYSTEMS, INC.  
2337 Philmont Avenue  
Huntingdon Valley, Pa. 19006

Computers & Peripherals

KC7ZK

CARL BARISH

## PRINTECH PRINTING

13620 NE 20th Suite D  
Box 4247  
Bellevue, WA 98009  
746-6000

NE 7-6329

GEORGE 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: 215-868-8100

**RCM** 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

### PENNA 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

## 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

## Heathkit® ELECTRONIC CENTER

Stan Demski  
Manager

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



## NESHAMINY TRAVEL SERVICE

Harriet Soltoff  
Home: (215) 947-4483

Phone:  
(215) 757-1585

2337 Neshaminy Blvd.  
Bensalem, PA 19020

BROWSING-THURS. 7<sup>00</sup>AM-9<sup>00</sup>AM  
SAT. 8<sup>00</sup>AM-6<sup>00</sup>PM

Day-Nite (215) 455-2121

## FERTIK'S ELECTRONICS . . . . .

Components & Equipment

LEON FERTIK

5400 ELLA STREET  
PHILADELPHIA, PA. 19120

LUNAR KLM ASTRON  
MICROWAVE MODULES  
TAMA

(717) 868-6565

## THE VHF SHOP

BOX 349 R.D. 4  
MOUNTAINTOP, PA. 18707

K3MKZ  
GERRY

215-PI5-9007

WA3POF

RALPH ALEXANDER

Electronic Equipment Repair  
Technical Writing

(215) 723 1200  
(215) 646 2600



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

JOSEPH J BURGESS  
W3PNL

MAIN & RELIANCE  
TELFORD, PA 18969

215-342-5982

WA3HIT

Paul and Betty Rilling  
INCOME DIVERSIFICATION

5830 Weymouth Street -Phila., Pa.19120

**73** magazine  
for radio amateur

73 stresses the fun  
of ham radio.

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



MASTER BLASTERS  
Master Disc Jockeys  
FOR A PARTY YOU'LL NEVER FORGET

BUZZ  
(215) 722-5840

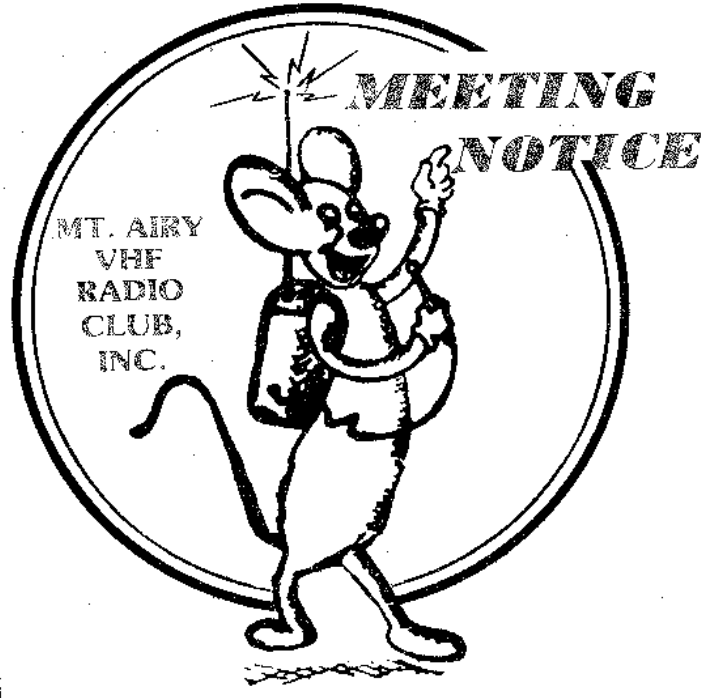
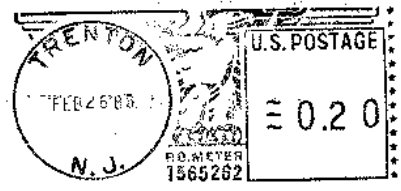
BRIAN  
(215) 342-8832

**"HAW" BUEGGER, INC.**  
 Electronic Equipment Distributor  
 "Right in the middle of a lot of good companies"

If we're judged by the company we keep, we should do pretty well!

68 N. YORK ROAD  
 WILLOW GROVE, PA 19090  
 215-659-5900  
 Service Since 1956

**Cheese Bits**  
 2087 Parkdale Ave.  
 Glenside, Pa. 19038



**PACK RATS**

FIRST CLASS