

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC. PHILADELPHIA, PENNSYLVANIA (ARNS)
(50.2, 145.2, 221.4, 432.03 & 1296.3 Mhz) Repeater 222.98/224.58
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE
MEETINGS: THIRD THURSDAY OF EACH MONTH AT 8:00 P.M.
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SOUTHAMPTON, PENNSYLVANIA

VOLUME XVII

JULY, 1975

NUMBER 7

OPEN LETTER TO THE ARRL

Having just received the July issue of QST, I see the ARRL has once again chosen to almost totally ignore the efforts of this Club and individual club members in the past January VHF Sweepstakes. I fully realize that this is a journalistic device to de-emphasize the perpetual champion so as to somehow encourage the underdog to try harder. But is this really fair? Does it actually encourage anybody or is this technique really designed to discourage the winner? Hope that he will pity the loser; back off; become himself a loser.

Perhaps this is not a conscious effort on the part of the League. Perhaps your writers lack creativity. They would rather report just the statistics. That's easy. Everyone knows how hard it is to talk about the same old winner every year. Why not instead dwell at length about the exploits of two back packers who operate a tower and a HA460 from the "Pack" in the dead of winter. After all that's the way you win contests, create activity and foster competition.

But then, I suppose, winning isn't everything. It's fun to work hard and then lose. After all, I am sure Mark Spitz went to the Olympic games to demonstrate his fine swimming technique and flex his muscles for the females. Winning a few Gold Medals! Who needs them?

I do have a suggestion. Why not do a little research into what it takes to win a contest. We all know how to lose. What makes a first class VHF operation? What kind of organization does it take to win a club event? You know that's the main ingredient. It's not KW's and big antennas. It's motivation and organization. You want competition? So do we. How about stimulating good wholesome competition in a positive, constructive manner rather than stifling it with negative overtone and total disregard of supreme club and individual efforts. Now I know how the Yankees must have felt.

Ronald J. Whitesel, WA3AXV
President, Mt. Airy VHF Radio Club, Inc.

REPORT ON THE PARA MEETING

The semi-annual meeting of the Philadelphia Area Repeater Association was held on Monday evening June 9, 1975 at the transmitter plant of PBS Channel 52 - WNJT-TV located North of Trenton, New Jersey. There was quite a large turnout. The business of the group was conducted by President Bill Cusick, W3GJC, which included the election of quadrant directors. At the conclusion of the business, a tour of the Transmitter Plant was made under the expert guidance of Larry, K3ADS and his station colleagues. It was a most interesting evening.

PACK RATS' CHEESE BITS IS A PUBLICATION OF THE MT. AIRY V.H.F. RADIO CLUB, INC. PHILADELPHIA, PA. AND IS PUBLISHED MONTHLY.

SUBSCRIPTION RATE \$1.50 PER YEAR

WE OPERATE ON AN EXCHANGE BASIS WITH OTHER PUBLICATIONS AND ANYTHING THAT IS PRINTED IN CHEESE BITS MAY BE REPRINTED, UNLESS SO STATED, AS LONG AS THE PROPER CREDIT IS GIVEN.

SWAP SHOP ITEMS - NO CHARGE

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

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7815 NEW SECOND STREET
ELKINS PARK, PA. 19117
215 ME 5-1078

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PHILADELPHIA, PA. 19120
215 RA 5-1928

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<u>MONDAY NIGHT NETS:</u>	<u>NET CONTROL</u>
145.2 - 7:30 P.M.	W2EIF
50.2 - 8:30 P.M.	W3CL
221.4/224.58 9:00 P.M.	K3GAS
432.03 - 9:30 P.M.	K3IUU
1296.3 - 10:00 P.M.	W3HMU

<u>FRIDAY NIGHT ATV NET:</u>	<u>NET CONTROL</u>
439.250 - 7:00 P.M.	WA3AXV

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222.98/224.58

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W3HMU, TONY SOUSA
W3HQT, BILL OLSON
WA3JUF, DAVE MASCARO

DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

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Ed Clark

Calender of Coming Events
Syllabus by Lee, K3MXM

JULY

- 4 HAPPY BIRTHDAY - U.S.A.
199 going on 200
- 9 Board of Directors Meeting, QTH, K3IPM, Stan Smith, 133 Hogeland Road, Southampton, Pa. Phone 355-2867.
Directors and interested parties cordially invited to attend.
- 17 First Outdoor Meeting of the Season
Auction at ZD's (Zimmerman's Gulch), 520 Centennial Road, Warminster, Pa. Tell and bring other club members, tell and bring your friends - pass the word around. This is our first outdoor meeting of the season and from past experience it is one of the highlights of the season. Bring materials to sell - bring a friend - bring a CHAIR and set yourself up for a real good evening of fun, laughs and bargains. Refreshments; Games; The Mario Auction. Presentation of the "Broken Hammer Award"
- 19-20 Space Net Contest - honoring Apollo #11, 6:00 p.m. local to 6:00 p.m. next day. Same exchanges as previous contests.
- 22 BARCC Directors Meeting. Casa Conti, Jenkintown & Easton Rds., Glenside, Pa. Dinner 6:30 p.m. Meeting 7:00 p.m.
- 26-27 World Wide VHF Activities Contest (Itchykoo Park Contest) Make contacts about 50 MHz. See rules in various magazines or write WA3NUL. Hagerstown Maryland for further details.

AUGUST

- 3 Winchester Hamfest.
- 3 Vacationing up North? Montreal, Canada Hamfest - McDonalds College Farm, Ste Anne de Bellevue. Information - VE2RN - P.O. Box 201, Pointe Claire, Dorval, Quebec. H9R4N9
- 10 Pack Rat Family Day and Picnic - Ft. Washington State Park. Flourtown, Pa K3IGX, Dick Boyle, Chairman. Make your plans now to set aside this one day when we all get together as a family. Special games for the children, adult games, horseshoe contest, bingo and prizes.
- 21 Second outdoor meeting of the year, Social Evening. View club slides and films. Running commentary by W3CL. Bring your ladies. Refreshments will be served. Bring chairs. A fun night for all. Place to be announced.
- 31 York Hamfest.

SEPTEMBER

- 7 SJRA Hamfest. Molio Farms, Malaga, New Jersey. All day.
- 7 Findlay Ohio Annual Hamfest and Flea Market at Riverside Park.
- 12-13-14 ARRL National Convention, Reston, Virginia. Write NOVARC, P.O. Box 682 McLean, Virginia for details.
- 18 White Elephant Sale, QTH K3MXM, Elkins Park, Pa.
- 21 Annual Cincinnati Hamfest, New Strickers Grove, Ross, Ohio.

OCTOBER 5 - Pack Rat Hamarama.
OCTOBER 19 - Gaithersburg Hamfest.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. UHF PRESCALER #525: Pagel Electronics has just introduced a 525 Mc prescaler which when used with a low frequency counter will divide the frequency by 10 and give read outs in that range. A preamp for 1-50 Mc is built in and may be used without the prescaler in the circuit to boost sensitivity on the lower range. This preamp gives a gain of 20 Db. Unit is complete with AC power supply and can also be used with 9-15 VDC battery. Price \$159. Pagel Electronics 6742-C Tampa Ave., Reseda, Calif. 91335
2. 440 MC FM TRANS/REC HR 440: Regency Electronics is now producing a 440 Mc version of its line of FM T/R units. The transmitter is rated at 10 watts out on 12 channels and receiver sensitivity is .5 microvolt. Case size and style is the same as the 6, 2, 1 1/4 meter rigs. Price \$349. 7707 Records St. Indianapolis, Indiana 46226
3. FIVE POSITION ANTENNA SWITCH: The Antenna Mart is now selling a 5 position antenna switch, the SW5, for use as a remote switch for coax leads. In this way, one coax cable can be run in to the shack from the tower or mast. With coax now selling for 30 cents a foot, it is less of a problem to run just the one lead plus the control cable when the distance goes to 100 feet or over. The cost would also be no more using the remote switch. Unit will handle a power of 2 KW and comes with a control box with 5 lamps to indicate which position the switch is on. Price \$79.50. Box 7, Rippey, Iowa 50235

VHF/UHF REPORT

By Jo, W2EIF

Activity continues low but was spurred up by the June QSO Party June 14-15. Two meters showed the usual good contest activity with CW at the low end going all thru the contest period. 2 meter AM was still going near the end of the contest and FM was very active. Six meters had its null spots as usual and there seemed to be quite a bit of CW at the 50.1 spot. CW should improve when the techs and generals get the 50.0 to 50.1 segment. 220 and 432 were very good on CW at the low end and FM showed improvement at 223.5 Mhz.

I only made one 1296 contact because W3CCX/3 had my converter. I got home just in time to give them No. 6 section from SNJ, but activity on 1296 was over by the late hour I got on.

The Tuesday night activity for 220 got a shot in the arm. I worked K1PXE, W2WOF and WA2FJW following the contest. Hope the activity picks up. Look for me on 220 at the low end any Tuesday night.

Some Local Nets: R.F. Hill Arc.

10 meters	28.560	Mon. 9 P.M. Net Control Norm, WA3KEY
2 meters	28/88 Rpt.	Thu. 8 P.M. Net Control Art, WA3FVL

Mobile Sixers

Sunday	9 P.M.	50.550 Mhz	A3 - (AM)
Tues.	10 P.M.	50.550 Mhz	A2 - (MCW)
Wed.	9 P.M.	50.550 Mhz	A4 & A3 (FAX ROUNDTABLE)

SJRA

Wed. 9:00 P.M. 145.2 Mhz.

PHIL-MONT

29.493 Mhz - 1000 Sunday (10 on 10) Monitored daily

29.626 = 2nd Preq. 3,993 Khz SSB-0730;900 daily.

52.525 Mhz (FM) 147.63 in 147.03 out (FM) Repeater WR3ADS (PHL)

COFFEE POT NET

50.6 Mhz. 9 A.M. Daily. Net control - WA3RXO

VISITORS AT THE JUNE 19TH MEETING:

Penn ARC members Bob, Jenkintown, Pa. - Don, Glenside, Pa. WA3YUE, Bruce, Huntingdon Valley, Pa.

Congratulations to our new officers and directors. Please see page 2.

REPORT ON THE JUNE VHF QSO PARTY

By Bill W3HQT

We had a very successful and as usual very grueling weekend at Hilltown, Pa. this year. Club participation was a bit low, but enthusiasm among those who participated was high as usual.

This year the new improvements were a high power 2 meter FM station; a 12 foot dish for 1296; and most obvious, the complete lack of horses, dogs, archers, etc. We had the whole field to ourselves, seemed a bit lonesome Sunday afternoon!

Things started rolling Thursday night when Dave, WA3JUF and I delivered some towers to the site. On Friday, Gary, WA3YZG and I started setting up -- hooking up power and getting the various transmitter sites in order. Around 1:00 P.M. K2EVW and W2EIF showed up with the massive South Jersey 220 array. Many thanks to Richard K2EYN who just happened to be passing by Stratford Friday morning and wanted to know if there was anything he could do with his new pickup truck to help out. (!!)

By Friday night, nearly everyone was set-up and by Saturday morning, we were already blowing up the rigs -- sticky relay on 6 meters; burned out 4CX250 socket on 2FM. At 3:00 p.m. we got on the air more or less on schedule.

Next I found we had no antenna relay for 2Mtr. AM. Home again. Worked Dave on 220 and learned that the 220 H.V. power supply had "crispy crittered" itself -- out to the Moonbounce shack -- grab the 432 H.V. supply, back to Hilltown. Made it through the night with little problem. Sunday went about the same with tropo poor but 6 meters fairly good with E skip. The biggest thrill for this writer was working VE3ONT on 1296 M.C. Sunday afternoon.

Tore down Sunday night between 12:00 and 2:00 and took the last load out around 12:00 Monday noon! Whew!

Activity seemed at an all time low and with non mountain toppers in Vermont and W. Va. Sections were down from last year's 113 compared to 108 this year. But contact were up by about 150 (mainly thanks to the fine 2Meter FM effort -- Thanks K3MWV!) Score was up this year 135K compared to 127K. Just wait till next year!

The following club members participated:

- K3ACR, WA3JF, WA3AXV*, K3BPP*, W3CLQ, K3DLS*, W2EIF*, W3ELX*, K3EOD*, K2EVW*, K3CAS*, W3HMU*, W3HQT*, K3IGX, K3LPM*, K3JJZ*, WA3JUF*, W3KKN*, K3KTY, WA2MWB*, W3MWV*, K3MXX*, WA3NFV*, WA3NGK*, WA3OVH*, WA3SPR, W3YXF, W3ZD*, K3ZSG*, WA3YZC*

* Operating Teams.

Visitors who operated, W3CLQ, WA3UDS, Many thanks!

We had many visitors -- relatives and friends, some of the following calls were noted: K3BVZ, W3ESQ, K3PXX, WA3TEM, WA3YUE.

Bryan and Glen Weisman (K3JJZ Harmonics) did yoeman duty installing the line intercom system. Thanks to the Penn Arc boys who helped in the installations and clean-up.

TID BITS

Congratulations to Randy and Della Bynum (WB2SZK) on the birth of a baby girl on June 18, 1975. Mother and daughter doing fine.

Sid, W3GEW, and Jim, W3SMK off the sick list and resuming some modest activities.

Tony, WB2MTU and family (including six dogs) now at his new QTH. Listen for K4AWS on 6 meters. Our best wishes OM.

From Penn Wireless "Xmitter" the following: "John York, K3GGA, wins Bicentennial QSL card competition over large numbers of submissions" (At the last BARRC meeting)

Write to your Congressman to urge him to support the REI Bill. H.R. 7052.

It is still time to make your views known on Docket 20282 to the FCC -- original and 14 copies. The Pack-Rat answer to the docket is available at W3CL QTH. There is a copy on hand for each club member. Mailing cost is 30 cents if you can't come in person!

(CONTINUED ON PAGE 26)

NOISE FIGURE WORKSHOP

By Tony, W3HMU

A special feature of the Pack Rat June monthly meeting was a noise figure workshop conducted by Dick Pierce, K3MWV. Dick began the session by defining noise figure and explaining the interrelationship of pre-amp gain and converter noise figure. Several VHF converters and pre-amps were tested and adjusted using a Hewlett-Packard Model 343A automatic noise figure meter. The results obtained with the better performing equipment is listed below. Several converters were discovered to be operating well below their capabilities and were adjusted where possible or returned to their owners for re-work. Many of the poor performers had been giving outward indications of proper operation to their owners which shows how difficult it is to judge the operation of the VHF receiver without the use of good test equipment. Hat's off to Dick, K3MWV, for a fine job and we hope that many more of the Pack Rats will take advantage of this program when offered again in the future.

The noise figures obtained with the HP 343A analyzer are optimistic at frequencies above 30 MHz. This was brought to the attention of the ham fraternity in a fine article by WJAA (Ref. 1). The exact correction factor to be applied for K3MWV's noise diode is not known but by comparisons of noise figures measured on the same pre-amps on corrected noise figure meters it would appear that about 1 db should be added to the 432 MHz results, 0.5 db should be added to the 220 MHz results and .2 db should be added to the 144 MHz results as a correction factor.

Ref. 1 "Ultra Low Noise UHF Preamplifier", Joseph H. Reisert, HAM RADIO MAGAZINE, March 1975.

<u>CALL</u>	<u>Freq.</u> <u>(MHz)</u>	<u>NF</u> <u>(DB)</u>	<u>Device</u>	<u>Freq.</u> <u>MHz</u>	<u>NF</u> <u>(DB)</u>	<u>Device</u>
<u>Pre-amps</u>				<u>Converters</u>		
K3ZSG	50	0.4	6M. Vanguard	K3ZSG	50	1.5 Vanguard
WA3NGK	50	3.0	Home Brew 40673	K3ZSG	144	3.4 Vanguard
W3HQT	144	1.5	2M Janel	K3ZSG	144	5.0 C-Line Clegg
W3HMU	144	2.0*	FMT 4575 Home Brew	K3ZSG	220	4.0 Vanguard
K3MWV	144	2.1	Nec Trans. Home Brew	W3HQT	220	5.3 Spectrum Int'l
K3ZSG	144	3.0	Vanguard Pre-amp	K3ZSG	432	3.2 Vanguard
W3HMU	220	1.4*	FMT 4575 Home Brew	WA3NFV	432	4.5 Pack Rat Converter
W3HQT	220	1.5+	V578 Home Brew			
K3ZSG	220	3.7	Vanguard			
W3HMU	432	0.7*	FMT 4575 Home Brew			
W3HQT	432	1.0+	V578 Home Brew			
W3HQT	432	1.2	Janel Pre-amp			

* These measurements made on the same preamp at different frequencies.
+ Ditto

TID BITS CONTINUED

A reader poses the following question: "What city in the U.S. was the first to use two-way radio?" He states that the winner will receive a box of candy or a cigar. Duplicate winners will have to share. Good luck to all.

Thanks to Pete, WA3OVH and Penn ARC boys Bob and Don who assisted in the KP duty at the last meeting.


AMSAT NETWORK: Held on Tuesdays, shortwave listeners and hams may listen to the net by tuning 3850 KHz at 9 p.m. EDT. The net is used to plan many of the details of future ham radio earth satellites and to report on the operation of amateur satellites now in orbit.

Looking for Some Practice CW: The MOBILE SIXERS have started a MCW (Modulated CW) net on Tues. eveings. Net control is Frank, WA2EFV in Camden, N.J. Net time is 10 PM and will begin before that hr. if someone shows up early. Freq. is 50.550 MHz. Help support this net and get some code practice with the gang. No speed is too slow as most of the gang is still learning. De Heterodyne.

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<div style="border: 1px solid black; padding: 5px;"> <p>ham radio your most interesting amateur publications</p> <p>hr REPORT Greenville, NH 03048</p> </div>	<p><u>A request from your AD Manager</u></p> <p>PATRONIZE OUR ADVERTISERS Tell them you saw their ad in CHEESEBITS. Leave your QSL card with them. CHEESEBITS is one of the best read local radio club papers. Circulation - 300</p>	<div style="background-color: black; color: white; padding: 20px; font-size: 48px; text-align: center;">73</div> <p>1 year - \$8 3 years - \$16</p> <p>magazine for radio amateurs</p> <p>PETERBOROUGH, NEW HAMPSHIRE 03458</p>

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215-885-3830

WANTED: Tri-Band beam 10-15-20M Ham-M or similar rotor; 40 ft. or taller self supporting tower.

CONTACT: Doug Adams, K3TZR
215-659-0718

FOR SALE: Swan 250C 6 mtr. transceiver w/noise blanker; w/remote VFO; w/P/S & Speaker w/ TV2D 2 mtr. transverter. Perfect condition.

CONTACT: Stanley Smith, K3IPM
215-355-2867

FOR SALE: A model composite unit, complete system w/Modem. Mod. set for standard VHF tones.

CONTACT: Scott Garfinkle, WA3VJS
437 Crescent Road, Wyncote, Pa.
215-887-7896 Pick-up only!

WANTED: Small prop-pitch motor

CONTACT: Richard Subin, K2EVW
711 Shore Road
Northfield, N.J. 08225
609-646-7388

FOR SALE: Micro 66 CB Xcvr-6 channel w/power supply and antenna \$75.00;

10 speed bike with light and mirror \$35.00

20 Gallon long fish tank with lighted top; air pump and other extras \$15.00

CONTACT: Ronald Shain, WA 7-7046

WANTED: Good quality guy line 1,000 ft; State price and type. 220 converter - any IF - will swap Pack Rat 432 converter.

CONTACT: Elliott Weisman, K3JJZ
8533 Algon Avenue
Philadelphia, Pa. 19152

FOR SALE: 221.4 Mhz complete station. R-48 receiver w/pre-amp and 25 watt output transmitter w/microphone. Twin to W3CL's rig. Xmitter will operate 220 MHz w/ proper xtals. Drawing and instructions included. Xmitter in 8 3/4 in. rack cabinet. \$35.00.

Collins 75A-4 receiver complete w/0.5, 2.1 and 6.0 KHz filters and Collins speaker. \$365.00

CONTACT: Jack Power, W2AXU
102 Upper Ferry Road
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—Guru Maharaj Ji

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SWAP SHOP CONTINUED

FOR SALE: Collins mechanical filters for
75A-4: F455J05-0.5KHz BW - \$40.00;
F455J15 - 1.5KHz BW - \$35.00; F455J31 -
3.1 KHz BW 2 ea - ea \$30.00; Oblong Plug-in
Filters: F455C31 - 3.1 KHz BW 455KHz IF-\$15.00;
F500B14-1.4KHz BW 500KHz IF - \$15.00; F500B60-
6.0KHz BW 500KHz IF - \$15.00; Westcom noise
blanker for 28 MHz IF system. Blanks all noises
including precip static \$15.00; Panadaptor Mod.
PCA-2 T200 for 455KHz IF 2 each -ea \$18.00;
Collins Station - KWM-2 and 30L-1 Combination..
KWM-2 w/waters "Q Multiplier". Combination only
complete w/all cables and instruction books.
Includes 516F-2 Power supply w/speaker - In
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Power Supply-120 Watts-600 Volts at
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CONTACT: Jack Power W2AXU
102 Upper Ferry Road
Trenton, N.J. 08628
609-882-8811

WESTERN NEW YORK HAMFEST AND VHF CONFERENCE

By Dave, W3ZD

The 1975 Western New York Hamfest and VHF Conference was held at the Monroe
County Fairgrounds, Rochester, N.Y. May 31 and June 1 in the Domed Convention Building.
A huge flea market took place in the paved parking area immediately adjacent to the
convention center, allowing visitors the option of mixing technical sessions, manufacturers
exhibits, and flea market in any order or quantity desired. A nice feature.

In attendance were more than 3800 registered among them Tony, W3HMU, Harry,
WA3NGK, Bill, K3ZSG and Dave, W3ZD. (Packrats) There were almost 500 tailgaters and
about a half a hundred exhibits. The numbers might seem a bit out of proportion, but
there never was a shortage of space, or lack of people in any of the areas. All seemed
to balance nicely.

A good representation of League people were there including Dick Baldwin,
W1RU, the new general manager of the League, and Connie Mac, W3SW, Atlantic Division
Director. The cocktail party on Friday evening before the convention at the Marriott
Motor Inn, the convention headquarters, was a very nicely attended affair with pleasant
music, fine drinks, tasty tidbits, and splendid fellowship among hams including a
surprising number of VE's. Now that I think of it, there is no reason for me to be
surprised, for Rochester is quite close to Canada. The money intermingles freely which
is something of a shock, especially when you find a Canadian Two-Dollar bill among your
change after a purchase! No problem though, for I'm told the Canadian money is worth
a bit more just now.

One of the more popular events was the FCC license exams conducted by our own
Joe Welsh from the Philadelphia Office. More than 300 reportedly were examined with about
80 or so taking the Advanced. Those boys were busy!

A nice meal of roast beef was served at the Banquet on Saturday Nite in the
Domed Arena, Speakers were good, and the formalities carried off with dispatch. It
was a pretty hot room, but nobody complained too much about the weather for the rains,
torrential at times both before and after the Flea Market, spared that event, and many
folks even got some suntan during the afternoon.

Technical seminars were offered in the field of repeaters, general VHF, 220 MHz
repeaters, OSCAR, QCWA, Antique Wireless, public service and the N.Y. State CW contest.
FCC and ARRL forums rounded out the program of a very enjoyable affair.

UNDERCOVER REPORT

Pack Rat Flea Marketers at Rochester had a full wave 6M snake for sale
(19'7") In a beautiful maroon color with blue eyes and a wistful smile.

THEFT PRECAUTIONS W3DTN de "Auto Call": Thefts of amateur gear are increasing at an alarming rate. Since the "Sticky Finger Crowd" can easily monitor two-meter FM, here are some "Dont's" to keep in mind for Self-Preservation: 1. Don't announce on the air where you are going shopping. An unattended car in a shopping center parking lot is a good target. 2. Don't discuss on the air the details or dates of your planned vacation. Why advertise that your house will be unoccupied for a week? 3. Try to label as clearly as possible, your two meter rig to make it plainly obvious that it is NOT a CB rig.

The revised predicted sunspot numbers for the remainder of 1975 are as follows:

July 17	October 12
August 15	November 11
September 13	December 11

OFFICIAL BULLETIN NR 538 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 5 1975 TO ALL RADIO AMATEURS BT: Linking of more than two repeater stations will be permitted effective July 11, 1975. FCC released this week a Report and Order in Docket 20073 dated May 28 deleting the linking prohibition. Rules will require the licensees of each participating station to submit a system network diagram showing all related stations in the system, including an auxiliary link station which might be used to effect the interconnection. Such station interconnection would not relieve any licensee, trustees and control operators of the proper responsibility for proper operation of their station. FCC also states that this rules revision does not permit cross-band operation of repeaters, being considered in Docket 20113. This relaxation of repeater regulations is in direct response to a petition by ARRL and becomes effective July 11, 1975. AR

OFFICIAL BULLETIN NR 539 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 12 1975 TO ALL RADIO AMATEURS BT: ARRL has requested an extension of time for filing in Docket 20282, on restructuring of the amateur service. At a meeting of the League's Executive Committee held at Headquarters June 7-8, it was found that completion of the League's comments in the docket were far more time consuming than expected, because of the overall scope of the proposals and the extent of the ARRL counterproposals. The original deadlines were June 16 for comments and July 16 for reply comments. The League is asking for new deadlines of July 16 for comments, August 16 for replies. AR

OFFICIAL BULLETIN NR 540 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 19 1975 TO ALL RADIO AMATEURS BT: The Federal Communications Commission has amended its rules, effective July 28, to permit the operation of amateur repeater stations under certain circumstances without a control operator being on duty at an authorized control point. Repeater stations and auxiliary link stations used in repeater systems which are licensed in a conventional manner for either local or remote control will be permitted several options for implementing automatic control during periods when a control operator is not on duty. Additional details on this rulemaking proceeding, Docket 20112, will appear in the August issue of QST. A limited number of copies of the report and order will be available soon for repeater licensees. A large self-addressed stamped envelope will help speed your reply. AR

WB2MTU GOING SOUTH

We would like to pay tribute to an avid VHF'er, Tony WB2MTU, SJRA past president and the VHF Space Net director, who has retired from a S. Jersey salt mine and is now going to relocate in Florida. You will remember Tony as a staunch supporter of VHF activity in the S. Jersey area. Because of this and his VHF Space Net activity, he was awarded the SJRA's 1972 Amateur of the Year Award. His dedication to an interest in space topics gave him the incentive to obtain the special WM200N call and to organize the operating event which commemorated the fifty anniversary of man's first walk on the moon. The call WB2MTU is going to be missed by many VHF operators on six and two meters on the North eastern seaboard. Don't be surprised, however, if you hear K4AWS, his new call, on six meter sporadic E or via AO-6 or AO-7 oscar satellites. Tony will figure a way to keep in touch. The best wishes of SJRA go to him for continued good health and VHF activity in Florida. (FROM SJRA-HARMONICS)

LAST MINUTE SWAP SHOP ITEMS

SALE or TRADE: Gonset Sidewinder Model 910A- 6 Mtrs. VFO - 6W. AM, 20W. CW, Pep SSB--Solid state except 3 tubes in final. Gonset Linear Model 913A- 6 Mtr., lere with power supply. Uses one 4X150 or 4X250 tube.

CONTACT: W3ISN, 7552 Ridge Ave., Phila., Pa. 19128---215-483-6666.

FOR SALE:Extra strong tower sections-24 inches on a side- 10 ft. long---triangular galvanized steel. Excellent condition. \$45.00 per section.

CONTACT:Ed Daly-- 516-928-3595 (This is a Long Island New York No.)

FOR SALE:Heath DX-100 in excellent condition. Modified for grid-block keying. \$60.00

CONTACT: W3ELX, Mario DeLuca, 422 Kansas Rd., Warrington, Pa. 18976 - 215-343-6816 after 6PM.

* * * * *

432 MHZ. DUAL POLARIZED DISH FEED

by Walt, K3BPP

(Preliminary info.)

- The antenna is a modification of the EIA Dipole Array. There are two basic advantages:
- 1.The feed mounts directly with a flange to a metal pipe to thevortex of the dish. The feed cables are carried in this pipe and pass through a hole in the ground plane.
 - 2.Instant polarization diversity,i.e. maximum loss is 3 DB for the worse case of Faraday rotation.

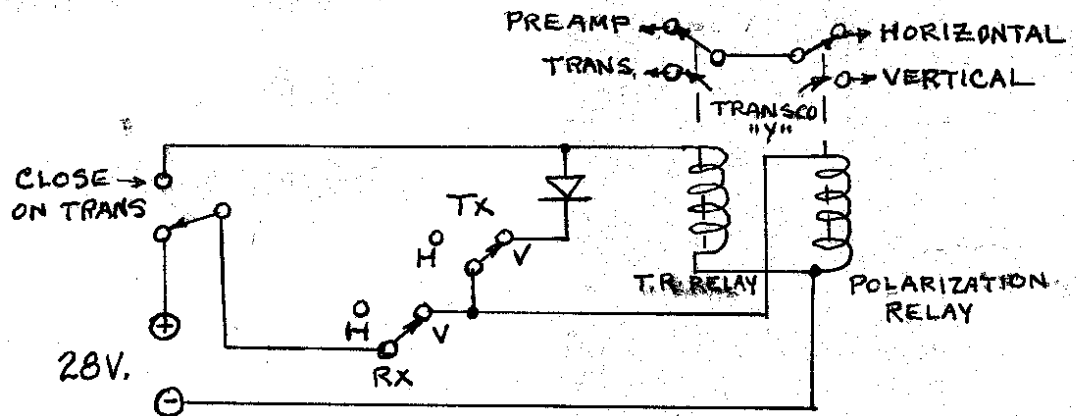
Each one of the four antennas is fed with an unshielded folded balun with an adjustable shorting stub (solder in place after tuning). The feed cable is 70 teflon dielectric. All four cables are exactly the same length (.95). Opposite pairs (i.e. parallel dipoles) are joined with "T" connectors. The output impedance at the center of the "T" must be 100+J0 to combine to give 50+J0.

Characteristics:

VSWR: 2:1 400-490; 1.2:1 at 432

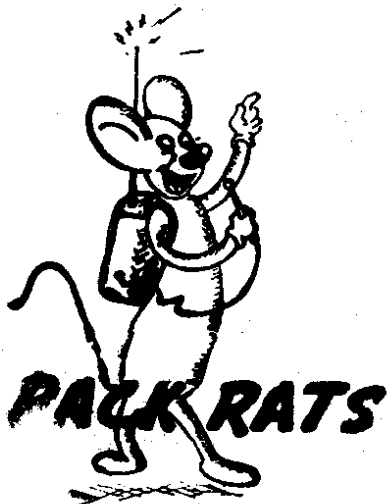
3 dB BW	E Plane 61°	10 dB BW	E Plane 110°
	H Plane 57°		H Plane 100°

Level at Edge of .55 f/d Dish	E Plane -9 dB
	H Plane -10.5 dB



Note: A drawing of the Dish Feed will appear in the August issue. Pertinent graphs will be printed in later issues.

Cheese Bits
2087 Parkdale Ave.
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MEETING NOTICE

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