

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY VHF RADIO CLUB, "THE PACK RATS", PHILADELPHIA, PA. W3CCX
NET FREQUENCIES: 50.150, 144.150, 222.125, 224.58/222.98, 432.110, 903.100, 1296.100 MHz
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE ARNS

Meetings: Third Thursday of each month at 8:00 PM
Southampton Free Library, 947 E. Street Road
Southampton, Pennsylvania 18966

SCANNED TO PDF BY BERT, K3IUV, 2013

VOLUME XXXVII

September 1995

Number 9

THE PREZ SEZ

Despite a week long threat from hurricane Felix, the Packrat Picnic went off without a hitch in perfect summer weather. From all reports the location at Peace Valley Park was terrific and everyone had a great time. There are even rumors of unexpected visitors attending the picnic. Special thanks go to Don (N3OZO), Al (N3ITT), Al (K3EOD), and everyone else who helped or attended.

The effort that went into planning the club picnic by the above members got me thinking about a larger issue that our club and probably other clubs struggle with. The Mt. Airy VHF Radio Club was formed many years ago by a group of VHF'ers who wanted to promote VHF/UHF activity and experimentation. Over the years we have been labeled by some as a "Contest" club due to our history of success in the January Sweepstakes. We are much more than just a contest club. If you need proof, you only have to look at the number of different activities going on in the club today. The beacon project is well underway, you may have heard the W3CCX/B signals during their burn-in tests at WA3AXV's QTH. In preparation for the upcoming VHF Conference the club is assembling a collection of golden articles and new design material to be published as the "Packrat Notes" and available only at the conference. The Conference and Hamarama preparations are moving into high gear. June contest '96 planning is already under discussion. Bob WB2YEH has a varied assortment of programs planned for our regular meetings up through the first quarter of 1996. And this is just the beginning! We haven't had time yet to talk about January! The reason I'm mentioning all this is that all of the above activities which benefit all of the club members need the support of the club members. We are all proud to be "Packrats", that logo is instantly recognized by VHF'ers nation wide. I'm asking you to donate some of your time, join an activity and give a little boost to the club so that we can become stronger and better known as more than just a contest club.

73, Phil WA3NUF

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PACKRAT 222 MHz REPEATER - W3CCX/RPTR

222.98/224.58 MHz, Churchville, PA

OFFICERS: 1993-1994


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	N3DQZ,	John Kauker (1 YR)
	N3OZO,	Don Schwartzkopf (2 YR)
	WB3KRW,	Steve Dallas (2 YR)

MONDAY NIGHT NETS

<u>TIME</u>	<u>FREQ.</u>	<u>NET CONTROL</u>
7:30 PM	50.150 MHz	K3EOD
8:00 PM	144.150 MHz	W2EIF
8:30 PM	222.125 MHz	WB2YEH
8:30 PM	224.58R MHz	K3ACR
9:00 PM	432.110 MHz	WA3AXV
9:30 PM	1296.100 MHz	WA3NUF
10:00 PM	903.100 MHz	N3AOG

COMMITTEE CHAIRMEN

LADIES' NIGHT: WA3YUE 610-630-1875
 JUNE CONTEST: WB3DNI 215-672-5289
 HAMARAMA: WB3JYO 609-538-1687
 VHF CONFERENCE: KB3XG 610-584-2489



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Calendar of Coming Events - September 1995

- 2 Birthday of Hiram Percy Maxim, W1AW on Sept. 2, 1869.
- 4 **Labor Day**
- 7 **Canadian Microwave Sprints** at 1900 to 2300 local time. Includes 903, 1296 and 2304 MHz. See the September issue of CQ, page 80 for details. Exchange is call and grid square. Scoring is number of contacts times the number of grid squares. Send logs to Dana Shtun, VE3DSS, 500 Willard Ave., Toronto, Ontario MS6 3R6, Canada,
- 9-11 **September VHF QSO Party.** Starts 1800 UTC Sat. and continues thru 0300 UTC Mon. See Aug. QST, page 117 for rules. Get on and at least give out a few points. Participation Pins available for everyone making 25 or more contacts.
- 10 **38th Annual F.A.R. FEST (Gaithersburg Hamfest)** will be held at the Montgomery County Agricultural Center (Fairgrounds) in Gaithersburg, MD. TI on 146.955. VE Exams.
- 13 **Canadian 432 MHz Sprints,** 1900 to 2300 local time. See 7 Sept.
- 14 Mt. Airy VHF Radio Club **Board of Directors meeting** will be held at the QTH of Bob, WB2YEH. Call 609-665-8488 for directions. Directors and all interested parties are welcome.
- 16-17 **ARRL 10 GHz Cumulative Contest.** See July QST, page 113 for rules.
- 17 46th Annual **SJRA Hamfest** at the Pennsauken High School in Pennsauken, N.J. VE Sessions. Talk-in on 144.69/145.29.
- 19 **Canadian 222 MHz Sprints,** 1900 to 2300 local time. See 7 Sept.
- 21 **First indoor meeting** of the fall season of the Mt. Airy VHF Radio Club will be held at the Southampton Free Library on Street Road in Southampton, Pa. All members and interested VHFers are invited to meet and share with us. There will be a presentation on GPS by Ron, WA3AXV.
- 23-24 **York Hamfest** sponsored by the York ARC and Keystone VHF Club and Hilltop Transmitting Society. TI on 146.37/97. VE exams.
- 25 **Rosh Hashanah**
- 26 **Canadian 144 MHz Sprints,** 1900 to 2300 local time. See 7 Sept.
- 30 The **19th Annual Mid-Atlantic VHF Conference** will be held at the Quality Inn in Horsham, PA. Admission \$10 in advance or \$10 at the door (includes HAMARAMA). For further info, contact the Conference Chairman, John Sortor, KB3XG, 215-584-2489.
- Oct.
- 1 **Hamarama 95** will be held at the Bucks County Drive-In on Rte. 611, In Warrington, Pa.

TID BITS

Chuck Houghton, WB6IGP, in his Above and Beyond column in the Sept. issue of 73 tells about the variety of parts that can be obtained from surplus 900 MHz cell phones.

The June/July issue of the NTMS newsletter, "Feed Point" has an interesting article by Charles, G3WDG, titled " A Waveguide Filter for use with the DB6NT Mk2 24 GHz Transverter. Anyone wanting to see the newsletter, see the editor.

The August issue of QEX has Paul, N1BWT's article titled " A Dual Mixer for 5760 MHz with Filter and Amplifier.

Ron, WA3AXV, reports that the Buckmaster Web Page can be found at http://www.buck.com/cgi-bin/do_hamcall. In addition to providing the usual callbook information, it includes the birthday (you have no excuse now for forgetting), license expiration date, longitude, longitude, **GRID to 6 places**, phone number and local time offset from GMT. Anyone with WEB browsing capability should be able to use this including users of Prodigy and AOL.

The August/September issue of the NTMS newsletter, "Feed Point" has an interesting note on Mounting Surplus Offset Feed Dishes by WA5VJB.

The FN13 Beacon is back on the air from fn13da...Id= 15 second carrier N2NEP FN13 15 second carrier and so on. The output is 5 watts on a horizontal "little wheel" the antenna is up about 30 ft. Please send reports to my e-mail or ng2p packet node.

Invasion of the Power Mikes!?!?

de KS0F Mike.

Greetings All, From EM48SL near St. Louis, MO. Well we here in the midwest have had a little tropo for the last couple days. Worked a few new grids last night and this morning. I gotta question for you all, is it just me or do half the signals on 2 meter SSB sound like crap? I have been tuning around through a good amount of activity and have heard numerous signals that I am curious about. First off, I can hear a station with a 20 over nine peak on voice and no background or residual S meter reading. Then there is a station that is S9 all the time whether he is talking or not and when he does talk the S meter does not move!! I have heard many of the latter tonight on 2 and was wondering why they seem to be rather wide on my receiver when the strongest signal on the band at 20 or 30 over disappears in a couple Kc. What's a mother to do? Go watch TV I guess. These are not all new comers by the way, far from it. Of course if you say anything about it, you are an old grouch, your rx is a pc of junk, you are insane, or IT MUST BE CONDITIONS!!!! (God, I Love that one). The 11 meter power mike syndrome has got us. Turn the gain on the radio to max and the mike to the same. I'm gonna get me a Roger Beeper next week it's gonna sound good with this new reverb I just got. If you hear me on the air with a questionable signal, tell me about it. Right on the air, I don't mind. I would prefer to field a clean signal at all times. Especially since I intend to grouse about the poor signal quality of others who only need to turn down the mike gain. In my next Edition of "I can't stand it anymore" I will be discussing your "personal". Please stay tuned

Lick and Stick

de Phil, WA3NUF

The following members attended the Hamarama lick and stick meeting Thursday night at the QTH of Don N3OZO, N3OZO, WB2YEH, WB3JYO, WA3NUF, K3EOD, K3MFI, KB3IB, KB3XG, N3AOG, WB3DNI, W3GXB, N3ITT. Approximately 1800 Hamarama flyers were folded, stapled, and stamped. We also held a VHF Conference and Hamarama progress report meeting. Thanks to everyone who attended. Why does everything I eat still taste like a postage stamp?

Fourlanders VHF Club will be , at the top of Bald Knob

de Jim, N3AHI

Ron, Wonder if you'll be around the shack during the Sept. 'Test? Our gang is gonna do its thing again from FM07 (near Roanoke, Va.). We plan an all band effort (50 MHz thru 10 GHz). Think it appropriate to say we'd sure like to sked you on whatever bands you'd care to get on (In particular, 222 MHz, that's band I'll be operating). We heard you quite loud one time last year, working someone else, and that was it (on 222)! Heard Dave Hackford several times too, but could never get his attention...of course, he's gone now. At any rate, if nothing else, pls spread the word around your neighborhood that AA4S will be on and delighted to work 'Rats and friends on any band!

The Fourlanders VHF Club will be operating from FM07BW during the September VHF Contest, at the top of Bald Knob Mountain. The call will be AA4S and we will be operational on all bands from 50 MHz to 10 GHz. in the Mult-multi category. Most of our members will be leaving Thursday for the trip, so would like to make some schedules early as possible. Each band will have large antennas and enough power output to be very competitive. Please include the following in your response.

1. We would like to take the odd minute or be the first 30 seconds, your preference on sequence, please confirm.
2. We prefer a UTC time, any time during the contest, but like late hours.
3. Prefer a frequency away from the call frequency. Example 50.220,222.143,
4. Please include, your grid (6 letters), call, and shack phone number.
5. We would like to use 15 min. intervals. Example 0000 to 0015 or 0030
6. Please include the date of proposed sked.
7. Include the mode cw, ssb, etc. I will confirm all response's or suggest alternates to any conflicts.

Health and Welfare

We are saddened to report the passing of Packrats BB Wentzel, W2HX, and Charles Lustick, K3HSS.

VHF+ PROPAGATION & ACTIVITY REPORT- AUGUST 1995

By Jerome Byrd, K3GNC

COASTAL TROPO! COASTAL TROPO! August has been a great month for trope - Nova Scotia to Florida! The closer to the coast, the better was, but even a lowly 'in-lander' could pick-up a few tasty morsels, if they were alert and persistent. The following is a partial description of the activity:

<u>Date</u>	<u>Band</u>	<u>Comments</u>
8/3	144 MHz	Brief E Skip - K1RZ was the only station heard working it.
8/4	144 MHz	EM87 (pretty rare) was being worked in this area.
8/8	144 MHz	Good opening to South and SW. Western PA was also very strong into our area. EM86, EM93, EM95, FM02, EN90 were worked in our area.
8/14 to 8/16	144 MHz	Good opening up and down the coast. FM03, FM02, FN53 were some of the grids worked in our area.
8/19	144 MHz	Open up and down the coast, also open to Michigan, (EN83, EN73)
8/20	144 MHz	Wide Open! North and South. Early risers had a chance to work VE1... Florida! FM02, FM03, FM04, EM93, EM94 were still workable at 9 AM.
8/21	144 MHz	Open to the West and Southwest. WD4MYM (FM05), N8RAH (EM89), W1AJR (EN91). NW3C (EN90) were heard/worked.

Including the UHF Contest, the following Packrats were heard active at this station in August: WA3NUR, N2SB, WA3AXV, W2EIF, W3GXB, WB2YEH, KB3IB, K3EOD, WB2JHG, AA2UK, WA3RLT, and N3ITT. I might have missed a few but let's triple that number in September starting with the September VHF Contest! Please let me know about any openings, nets, propagation, etc. CU on the bands.

ROVER VOTE RESULTS

By: J.P. Kleinhaus, AA2DU ARRL CAC Chairman

Greetings: I apologize for not posting this here earlier, but as I'm sure some of you can appreciate, I have had other responsibilities to attend to. The CAC voted 11 to 4 to implement the U+A rules, without the 5 grid limit on the +A multiplier. All rovers will be able to apply the +A multiplier to their score. As you know, the CAC doesn't have the last word on the issue...the ARRL Awards Committee will be receiving the CAC's recommendation and then holding their own vote on the proposal. There should be a news release announcing the outcome of the Awards Committee and CAC voting after it is official. I want to thank everyone here for their invaluable input to the CAC. It has been a long and arduous process for some of us, but we have reached a conclusion that addresses the majority of the problems with the current rover rules and as such, should please most of you. Of course, as I am all too aware, you can't please all of the people all of the time. Again, thanks for your participation in helping us to resolve the issue. Very 73, J.P. Kleinhaus, AA2DU (Editors note: The proposed rules were in the August issue of Cheesebits)

RESULTS - First Annual January Contest Award

By Bob, WB2YEH

The Packrats started a contest for non members to work as many of the Packrats on as many bands as possible during the January VHF Sweepstakes. The results are presented here and the Packrats would like to thank all of those that participated. We are looking forward to doing it again in January of 1995. the past rules did not state any single or multiop categories however we are considering making this competition as single op only in the future. Comments from non club members are welcomed.

<u>PLACE</u>	<u>CALL</u>	<u>Handle</u>	<u>No. of RAT OSOs</u>
1	K3GNC	Jerome	122
2	K3MQH*	Dick	120
3	WA2TEO	Jeff	108
4	WA2ONK	Chuck	94
5	N2TNN	Dean	93
6	WB3LNZ*	Red	93
7	WZ1V	Ron	93
8	N2LIV	Bruce	61
9	W1QK	Dan	52
10	WA3U	Dave	51
11	K2UOP/8	Tom	44

Pack Rat Beacon Report

By: Ron Whitsel

To All Concerned: At 1200 on 27 August 1995 the first N3CX Memorial Beacon was turned back on at its new location near Quakertown, PA. The first signal was heard on 1296.080 MHz, followed soon after by the 903.068 beacon signal. The beacons sign the call W3CCX/B in Morse code. The 2304 beacon antenna was also installed and awaits only hardline connectors to complete the installation. 2304 should be on by the end of the week. Following are the preliminaries on the beacons: W3CCX/B FN20HJ 903.068 MHz, 2 watts into a 'Little-Big Wheel' 1296.080 MHz, 12 watts into an Alfred Slot (6 dBi) 2304.055? MHz, 7 Watts into an Alfred Slot (6 dBi) All antennas are at least 100 feet up on a radio tower in West Rockhill Township, 1 mile south of Quakertown, PA. The new location is about 2 miles east of N3CX's QTH. Reception reports to WA3AXV. More info to follow later. TNX to N3AOG, WA3AXV, WA3JUF, N3DQZ and WB3KRW whom refurbished and/or rebuilt the beacons and antennas, built a new ID box, fabricated heavy duty antenna mounts, obtained 600 feet of CATV 1 inch hardline, and installed the antennas and feedlines - all in less than four weeks. A job well done by all. As Dave, N3CX, used to say " Listen for the weak ones!"

VE3ONT EME Schedule

The Toronto VHF Society plans to use the 46 meter (150') dish at the Algonquin Radio Observatory (courtesy of the Institute for Space and Terrestrial Science, York University) during the 1995 A.R.R.L. International E.M.E. Competition. We will operate both weekends of the contest and hope to activate the 50, 144, 222, 432, and 1296 MHz bands during this time.

Band	Date (UTC)	Time (UTC)	VE3ONT TX Frequency	VE3ONT RX Freq. Window
144 MHz	Oct. 6/7	0000-0910	144.100	144.100 - 144.110
50 &	Oct. 7/8	2305-1020	50.100	50.100 - 50.105
1296 MHz			1296.050	1296.050-1296.060
222 MHz	Oct. 8/9	2335-1120(*)	222.010	222.010 - 222.020
432 MHz	Nov. 3/4	0000-0805	432.050	432.050 - 432.060
144 MHz	Nov. 4/5	2135-0910	144.100	144.100 - 144.110
144 MHz	Nov. 5	2205-2400	144.100	144.100 - 144.110

(*) 222 MHz: Only 2335-2400 UTC QSOs count for the EME contest; VE3ONT will be active all night anyway

Notes: 1) VE3ONT will attempt to be on the air at moonrise prior to the start of both the October and November weekends. We encourage only those who have not yet worked an EME station to try working us at that time. Experienced EME operators, please wait until the start of the contest. Anyone who works VE3ONT before the contest is encouraged to work us again during the contest.

2) Please avoid multiple QSOs during the contest. They only detract from the opportunity of first time EME stations. If you wish to work VE3ONT on SSB, wait until we switch; don't work us first on CW and then repeat on SSB, please. Also, please avoid duplicate 144 MHz QSOs between the two weekends.

3) The 50 MHz and 1296 MHz operation scheduled for October 7/8 will be simultaneous on both bands, barring unforeseen difficulties.

4) As always, VE3ONT's operation is subject to last minute cancellation for commercial users of the site.

5) In order to maximize your chances of making a QSO, make use of the entire receive window. Our best weak signal successes in previous years have been well away from our TX frequency. We tune the window constantly.

6) Times shown reflect the dish's 9 degree lower elevation limit, not actual moonrise at the site (grid FN05xw).

7) 50 MHz will use horizontal polarization. 144, 222, and 432 MHz will be RHCP on both TX & RX in order to minimize Faraday/spatial polarization effects. Your linearly polarized or circularly polarized OSCAR antenna will work fine. 1296 will be switchable RHCP/LHCP for both TX & RX; default is RHCP. 8) VE3ONT will transmit maximum legal power on 50, 144, 222, and 432 MHz. 1296 MHz power will be at least 150 watts.

9) We expect 222 MHz activity to be concentrated near horizon times. Be aware that we are limited to +9 degrees elevation lower limit. Therefore stations on the North American East Coast will have to elevate their antennas to work us on 222 MHz. We encourage very small stations to try because QRM will be minimal and we will be on the air all night even though this is after the contest.

10) All operation will be "random," that is, without prearranged skeds.

11) QSLs go to Dennis Mungham, VE3ASO, RR #3, Mountain, Ontario, Canada, K0E 1S0. Inquiries to Peter Shilton, VE3VD, 215 Windecker Rd. R.R. #1, Cayuga, Ontario, Canada N0A 1E0 or call (905) 772-8938 (EDT/EST evenings).

PACKRAT FAMILY PICNIC

By: Al, K3EOD

On Saturday, August 19, 1995, the Packrats held their annual family picnic. Thanks to the untiring efforts of Bob, WB2YEH, a new location was found at Peace Valley Park in Bucks County.

Although the map supplied by the park left a number of rats scampering around in circles (sorry, Ed) looking for the proper entrance, by the end of the day 37 rats including wives and harmonics finally showed up.

The weather was near perfect, sunny, warm, with a light breeze. (I guess the sun dance by Al, N3ITT, Don, N3OZO, and Al, K3EOD chased old Felix the hurricane out to sea). The Pavilion (newly constructed) which sat in a nice shaded area held approximately 16 picnic tables and had a double charcoal grill with enough open space around it to set up the horseshoe pits and other activities. You could even see the lake if you stood at the right spot. Some of the rats rented watercraft and ventured out on the lake.

Al, N3ITT, and Don, N3OZO, arrived early and had the famous rat roaster ready to go, grilling up hot dogs and hamburgers and steamed corn on the cob. Many thanks to both Al and Don for providing their cooking talents. The food was excellent and if anybody went away hungry, it was their own fault, as there were plenty of leftovers.

The following is a list of those attending: Dick, N3AOG, and wife Janice, N3CFE, Ron, WA3AXV, and wife Lynn, N3CX's wife Sylvia, KA3MXB, and son, John, K3DMA, and two sons, Pat, WB3DNI, and wife Patty, Joe, W2EIF, Al, K3EOD, Brian, N3EXA, Scott, N3GSA, and wife Allison and son, Bob, W3GXB, and wife Ruth, Al, N3ITT, Paul, WB3JYO, and wife Naomi and son, Dave, WA3JUF, and wife Barbara and son, Ernie, W3KKN, and wife Bert, W3TNP, Steve, WB3KRP, and wife Janette, Len, N3NGE, and wife Linda and son, Phil, WA3NUF, Don, N3OZO, and wife Ellen, Bill, W0RSJ, Bruce, WA3YUE, and wife Becky, Dave, WB8ZAR, and wife Dotty and visitor Phil, WF3W.

The oldest attendee was Joe, W2EIF and youngest was Maxwell Drexler (no call, 3 weeks old).

A great time was had by all.

Let us not forget the memory of those who could not be there with us and I would like to dedicate this year's picnic specifically to the memory of Dave Hackford, N3CX.

ARRL Special Bulletin 36: 2 Meter Record Claimed

From ARRL Headquarters Newington CT

An overwater distance record on the 144 MHz band has apparently been set between Hawaii and Washington state. On July 1, 1995, Paul Lieb, KH6HME, on Mauna Loa volcano, worked Jim Costello, W7FI, in Woodinville, Washington, near Seattle, a distance of 4333 kilometers. The previous record was set between KH6HME and XE2GXQ, on Baja California, a distance of 4276 km, on July 13, 1989. This tropospheric ducting opening began June 28 when the 144.170 MHz beacon on Mauna Loa, 13,680 feet (4170 meters) above sea level, was heard on the West Coast, according to QST VHF columnist Emil Pocock W3EP, who called the next three days "the most widespread Hawaii-to-West Coast opening ever recorded." In the early evening of June 30, KH6HME worked W17Z and N7KSI, both near the coast of Washington, the first ever 144 MHz contacts from that state to Hawaii, and then worked N7AVK, in Oregon. The breakthrough came the next day, at 0600, when KH6HME worked several Seattle area stations, beginning with W7FI, and was heard by VE7SKA, who could not make himself heard in Hawaii. Using computer software, the various Seattle area stations calculated who was the farthest from Mauna Loa, and the winner was W7FI. The record setting distance was 58 km farther than the six year old record. Unfortunately, the conditions did not extend to higher bands; KH6HME made 432 MHz contacts with K6QXY and W6SYA, but no others were completed.

SWAP SHOP

(send all ads to the editor)

FOR SALE: 1296 Power Amps, 250 watts to 750 watts, 2, 4, and 6 tube cavities using water cooled 7289, 8907 or single tube cavities using TH308, 328, 338 or water cooled Y730. Call or write to Tom Dinyovszky, KB2AH, 405 Union Lane, Brielle, NJ, 08730, 908-223-5067.

FOR SALE: Supreme 6 Meter SSB Transceiver, approx. 90 watts input, \$150.00. Contact Mike Bortulin, K3BOY, 610-666-5344.

FOR SALE: Gel Cell Batteries, 12 volt, 57 Amp Hour. Removed from equipment, excellent condition, \$20.00 each. Contact: Bob, W3GXB at 610-346-8698.

FOR SALE: 4CX300A Tube w/ screen bypass socket, both new, Konica CL301 video camcorder, w/ tuner, HB 829B amp, Bag PL 259's, for RG 58, Bag misc. connectors, Heath field strength meter, 24 Hr clock, 100W soldering iron w/ stand, B & W coax switch, Triplet 310 VOM, Regency HR312 2 Mtr. rig, Kenwood, TR720 2 mtr rig, 1/16, 1/8" solder, Heath SB 230 part assembled, No tube, Tandy 1000 computer, W/ color mon, printer, TPL 70W 2 meter amp, Turner, +2 and D104 Mics, Box of test meters, RME 602 AM transmitter, box of antenna hardware, Blonder Young TV-1A TV camera, Icom 2at W/ supply, Heath HM102 power meter, and SWR bridge, VGC, Poly Pak supply kit, box speakers and mic's. Make offer on any part of above to: Frank Benner, 215-257-2450

FOR SALE: NEC Spin writer printer, letter quality, w/ tractor and sheet feeder, parallel interface, Contact WA2OMY, Gary, 610-539-6409

FOR SALE: Alinco DJ200T 222 MHz synthesized HT, LCD display, 10 memories, PL, antenna, batteries, case, \$150.00. Drake TR22 2 meter FM Transceiver with mike and antenna, asking \$65.00 OBO. Voltrax 200 Personal Speech/Sound Synthesizer for a PC, make offer/trade. Tandy 6000 XENIX Computer with 2 FD, HD, and manual, make offer/trade. Contact Dennis, N3DG, at 215-938-1643.

WANTED: Yaesu FT-726R and an inexpensive 6 meter beam or a handyman's special. Contact Dennis, N3DG, at 215-938-1643.

FOR SALE: Absolutely mint Icom RC70 General coverage receiver, \$400.00. Call Harry, KA3B at 215-468-1512.

Preliminary Results - VE3ONT 10 GHz

Here is a brief account of VE3ONT activities on Aug. 18-20. Friday setup went fairly well but took much longer than anticipated. There was no time to check sun noise. Telescope tracking of the moon was erratic and unreliable on Aug. 19. Coupled with receive problems, no contacts were made and no mapping experiments were carried out on Aug. 19. During the day, Aug. 19, changes were made to the receive system and preamps substituted to give about 14 dB of sun noise. At moon rise on Aug 20 echoes were encouraging but we still had to track the moon manually with the telescope. What follows is our log for Sunday Aug. 20

0700	DJ7FJ	O	O
0725	OH2AXH	O	O (549)
0748	DL0SHF	O (559)	O (449)
0900	WB5LUA	O	O
0923	WA7CJO	569	O
0930	PA3CSG	O	O
0958	SM4DHN	569	559
1027	F6KSX	O	O (529)
1130	WA5VJB	O	O
1207	OK1KIR	O	O
1249	GM4ISM	O	O
1300	G4KGC	439	449
1340	GM4ZKE	0	O
1730	VE7CLD	O	O

We never achieved enough signal to noise ratio to effectively conduct the mapping experiments. Overall, our own echoes and signals received were below expected values. We are not sure why this was so, but will be investigating all possible reasons. More later. Dennis Mungham VE3ASO for the VE3ONT group (VE3ASO, W9IP, K2UYH, VE3UXZ, VA3LK, VA3MW)-

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THE 1995 MID-ATLANTIC STATES VHF CONFERENCE

Saturday, September 30, 1995 - 08:30 to 21:00

Horsham Days Inn, 245 Easton Road
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Pennsylvania Turnpike, Willow Grove Exit #27
Take Route 611 North one half mile

REGISTER: **\$12** at the door. Admission ticket for "Hamarama" is included.

ROOMS: \$63.00 plus tax. Group rates will be guaranteed until 9/15/95.
Mention "Pack Rats", or "Hamarama" to receive group rates.

SPEAKERS: Tom Williams, WA1MBA - "Narrow-Band 10 GHz and Some Observations From New England"
Tom Dinyovsky, KB2AH - "High Power 1296 MHz Amplifiers"
Tom Frobese, N3LLL - "VHF Operating and How it has Changed"
Al Katz, K2UYH - "Impedance Matching, Fact and Fallacy"
Dave Wood, WB4KPD - "Spread Spectrum Communications"
Warren Whelan, WB2ONA - "Breaking 10 GHz Records"
Richardson Electronics - "High Power VHF/UHF Amplifier Design"
John Sortor, KB3XG - "Feed Forward Amplifier Design"

LUNCH: - Lunches from \$5.95

DINNER SPEAKER : Dr. Paul Shuch, N6TX- "Searching For Life Among the Stars"

OTHER ACTIVITIES: 30 minutes to downtown Philadelphia (Turnpike to 476 or Route 611) Convenient to Willow Grove Park Mall, King of Prussia Mall, New Hope.

OTHER MOTELS: Holiday Inn Trevose, PA (215) 364-2000
(no group rate) Marriott Willow Grove, PA (215) 830-0550
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Warrington Inn Warrington, PA (215) 343-0373

MORE INFORMATION: Mt. Airy VHF Radio Club
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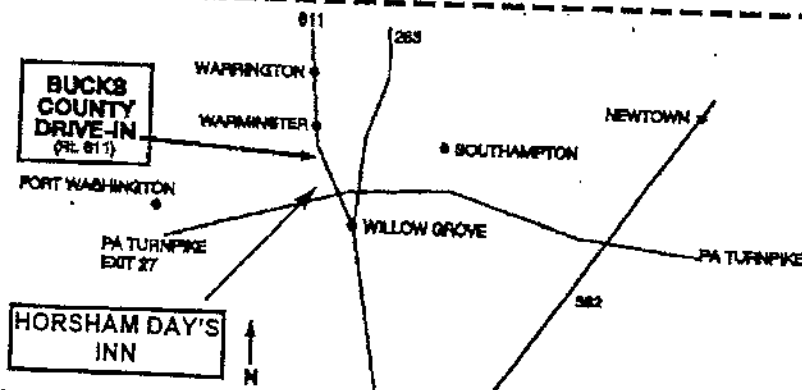
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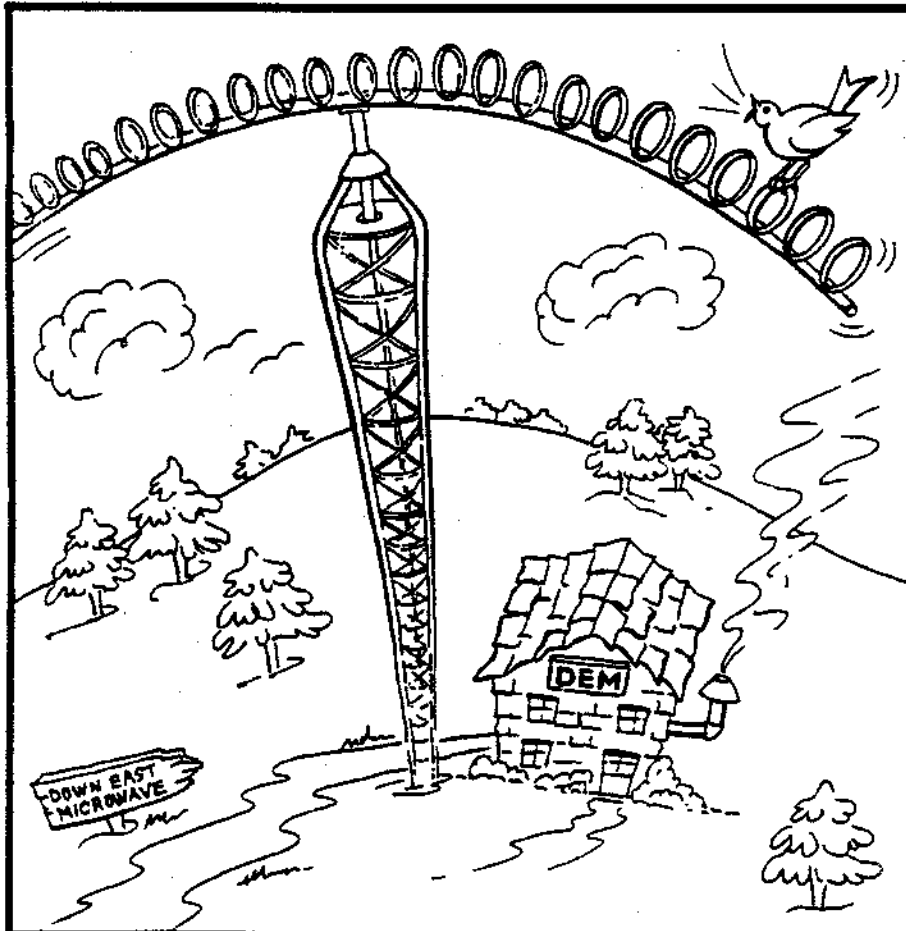


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