

### The Prez Sez

Maybe most of you have seen the Pack Rat moon bounce expedition presentation before, but this was my first exposure. While some rats were probably in transit to Dayton, we had a great presentation by EI, K3JJZ about the memorable event of 25 years ago. I was impressed by several things; but mostly two: the expertise to accomplish this feat w/ 70's technology, and more (mostly), the determination and planning involved to pull the whole deal off! It sure makes Hamarama planning look like "mice nuts"! Thanks to EI for the great presentation with all of the "props", which are now back in the Pack Rat archive for use another day!

We are fast approaching the Pack Rat "Summer Season!" I am very much looking forward to an enjoyable weekend on the summit of Camelback. No distractions except rag chewing with other participants (I hope). Last year, a family emergency had me burning the tires out of the lot at sunrise. This year I am hoping to "radio" 'til the end! I know this camping stuff, with the associated extra work load, is not for everyone. But, if a daytrip is amenable, come on up to operate a "class station" and relieve a tired operator. For anyone remaining at the home QTH, turn the equipment ON and run the bands! Don't forget to look for postings via our email reflector from our club rovers.

Remember that club elections are to be held at the next meeting. Our election committee chairman Phil, WA3NUF, has solicited a very good candidate pool for all pending vacancies. We have also reserved space at a different location. This meeting will be held at Otto's beer garden on RT 611, near the Willow Grove turnpike exit. After the election process and meeting, we can converse about contest war stories. We will be outdoors, but under cover. Don't let the weather deter you from attending!

We are heading into the club "summer session". There are some "cool" events in the summer for us Rats ... First, (after our new outside election meeting), will be the annual White Elephant Sale. Usually hosted (as far as I know), by Gary, WA2OMY; happens in July. IMPORTANT: at the moment, the normal night has conflict w/ Gary's vacation plans. We may move this event one week earlier at Gary's QTH, or keep the same date at a different location. This will be determined at the next board meeting, (June 14). Stay tuned to "CB" and the Pack Rat reflector. As far as the rest of the summer goes, check "CB" for picnic information. The event will be held at the N3ITT country club and resort! Al has hired a witch doctor to keep the clouds and rain away! Enjoy you summer, especially after a lingering winter, and don't forget that magic things can happen during the VHF+ summer season if conditions are right! Turn the stuff ON! **Ed - WA3DRC**

### June Contest , A Final Plea!

Greetings Packrats, just thought I'd let everyone know that plans are on track for the Pack Rats annual effort for the 2001 June VHF QSO party! At this time all the major jobs have been claimed , with the notable exception of 2m and 432 Mhz. WA3NUF and W3RJW are considering doing these bands again , perhaps some offers of help would help them decide. So far everything else looks great , plans are afoot to improve some of the other bands , and K1JT is planning to do HSMS again. W3GAD and N3OZO have been hard at work planning what I've heard is a even better than ever menu (if that's possible)! We will , of course have the traditional Pack Rat beverages. Although we have the minimum number of Rats have signed up so far, we could really use a few more, so I will make a final plea to anyone who can find the time to come up and help out, to please do so. Not only will you be helping your club, you'll get to partake in the fun, enjoy operating from a great site, enjoy some great food in the great outdoors and "shoot the bull" for a while with some fellow packrats, a win-win situation! For those who operate from home, be sure to work the club station on all bands! We could use some more help, especially on Mon for tear down. Many, many thanks to those who have volunteered to again make this event a success! If I somehow missed you, my apologies, please let me know!

LET'S MAKE THIS YEAR'S JUNE CONTEST THE BEST EVER! Hpe. to cu on the Mountain! **73 Al, N3ITT**

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**PACKRAT 222 MHz REPEATER - W3CCX/R**

222.98/224.58 MHz, Churchville, PA

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June Contest: N3ITT 610-547-5490

HAMARAMA: W3KJ 215-256-1464

VHF Conference: KB3XG 610-584-2489

**PACKRAT BEACONS - W3CCX/B**

FM29jw Philadelphia, PA  
50.080 144.284 222.065 432.295 903.071 1296.251 MHz  
2304.037 3456.220 5763.190 10,368.140 MHz (as of 3/1/01)

**MONDAY NIGHT NETS**

<u>TIME</u>	<u>FREQUENCY</u>	<u>NET CONTROL</u>
7:30 PM	50.150 MHz	WA3EHD/K3EOD
8:00 PM	144.150 MHz	N3ITT
8:30 PM	222.125 MHz	W2SJ/N3EXA
8:30 PM	224.58R MHz	W3GXB
9:00 PM	432.110 MHz	W3RJW
9:30 PM	1296.100 MHz	WA3NUF
10:00 PM	903.100 MHz	N3AOG
10:30 PM	2304.100 MHz	W3KJ

## **Editor's Column**

At our last month's meeting, Elliot Weisman, K3JJZ, gave the slide show and talk about the Packrat 432MHz Moonbounce Expedition to Columbia, SA. As most of the long-term Packrats well know, this was an international event, started on somewhat of a whim, after a question was asked why no-one yet had WAC on 432...because there were no moonbounce stations on 432 in South America! It progressed with the usual multiple month planning, complicated logistics, donation collecting, hosting arrangements, shipping, and set-up. Then came the other issues, like line voltage, any voltage at all, and several blown preamps. But the punch-line was that this provided for dozens of EME 432 contacts for hams all around the world, and enabled them to get their WAC certificates. Included in the contact list was one with W3CCX.

I almost fell off my seat when he told us that this coming year marks the 25th anniversary of the moonbounce Dxpediton, and about the 50th time that he has given this talk. It certainly was an inspiration, and another great tale of local club motivation, cooperative activity, and international publicity and ham hospitality.

I was somewhat reminded by the pictures of a personal experience that I had in 1969-70, when I studied tropical medicine in Costa Rica, and was able to operate TI2MC, a pair of Drake Twins and a tribander, set up in the International Center for Medical Research and Training (ICMRT) in San Jose, in cooperation with the department of Tropical Medicine at Louisiana State University in New Orleans. Once a week I was given the keys to the shack to operate and phone-patch back home. It was a treat to be able to have so many helpful hams phone-patching me to my wife when I called "CQ St. Louis for a patch."

I am gung-ho about the June Contest. Or at least I was until I got into a bit of a scheduling conflict today—that will put a bit of a damper on my ability to be on for the whole fray, and will hamstring my attempts to get to the rare grids, but I'm still looking forward to a block of radio time in the rover. There was a show on Broadway, "Same Time, Next Year," that chronicled the annual exploits of a couple that met once a year for a weekend fling...the June contest always gives me that recurrent theme. Al, N3ITT, has done a fabulous job over the years of keeping the organizational plan fulfilled, and I have been a part of teams of "rats" loading vans, assembling towers and antennas, stacking frames and rotors, and then getting everyone together to hoist them safely into position. Many of our steady contributors go about their self-appointed duties, supplying gear, technical expertise, sledge-hammer muscle, operating finesse, intercom phone set-up, AC wiring, food planning, purchase, preparation and clean-up, and logging and log-compilation.

The challenge this year is to get someone on the air or up to the mountain who has not been there before. Whether it be a seasoned ham, or a license-less youth, if it's for just an hour, or the full weekend, a first exposure to the amazing activity is sure to be long remembered, and hopefully the magnet that pulls them back for more.

I am grateful for the additional positive feedback on the format and content of Cheese Bits this year. There have been happenings when folks got info passed on through others, like Joe, K3VEQ, upgrading to General! Congratulations! Thanks to our many contributors. Can we ask each of you for an article? See you on 6 thru laser June 9 & 10. **73, Rick, K1DS**

## Election Night Meeting and Celebration, Thursday, June 21st

Don't miss the June club meeting on 6/21. The club will hold the annual election of officers and this year we have a real election!! Your vote is important to determine the direction of the club in the coming year! The following slate of candidates have agreed to serve if elected:

President - Brian N3EXA, Al N3ITT

Vice President - Ben WA3RLT, Bob W2SJ

Treasurer - Dave W3KM

Recording Secretary - Walt WA3AQA

Corresponding Secretary - Jim WA3EHD

Directors (3 required) - Paul WA3GFZ, Joe AA3GN, Joe K1JT,  
Joe W3KJ, Phil WA3NUF, John KB3XG

### June Meeting Location

# OTTO'S

## 233 Easton Rd

## Horsham, PA

215-675-1864 See map on page 8

They all deserve our thanks and appreciation for volunteering their time and effort to serve the club. Now do your part and attend the June meeting to vote for the new officers. We especially appreciate the efforts of the nominating committee, headed up by Phil, WA3NUF.

*You must be present at the meeting to vote.*

Mark your calendar for these future events:

**Saturday, October 13th— Packrat VHF Conference**

**Sunday, October 14th—HAMARAMA**

# Radio Activity for June 2001

SUN	MON	TUE	WED	THU	FRI	SAT
					1 Check out your gear in preparation for next weekend	2 Get extra rest this weekend in preparation for next
3 Do all your "honeydo's" to free up next weekend	4 Monday night nets-check page 2 for freq and times	5	6	7 Pack your bags for the mountain weekend of radio fun	8 Meet at W3GXB QTH at 8:30 AM to load vans & depart	9 VHF Contest starts at 19:00Z, be on Camelback Mtn
10 VHF Contest continues-help out on the mountain!	11 Contest ends at 03:00Z, rest, take down & return	12	13	14 Board of Directors meeting @ AA3GN QTH	15	16
17	18 Monday night nets-Join the gang	19	<b>Thursday, June 21st, Annual Elections Night Meeting and Club Celebration.</b> <b>Note Location: Otto's, 233 Easton Rd</b>			23 ARRL Field Day, 2PM EDT Ops encouraged on 6 & 2
24 ARRL Field Day, Ops encouraged on 6 & 2	25 Monday night nets-share summer activities	26	27	28	29	30

## An external mixer for the HP8555A Spectrum Analyser Plug-in

This article describes an extension of this useful instrument to 24GHz and above, by the addition of a simple add on mixer. In its standard form the 8555A plug-in for the HP141T Spectrum Analyser will accept inputs in the range 10MHz to 18GHz via the input N type connector. There is a modification available to allow access to at least 24GHz via this connector, but 24GHz via an N type is not really recommended. Indeed I believe the modification precludes one from using the external mixer capability. The 8555A will allow the use of an external HP mixer via a front panel BNC socket and this will extend the range of the instrument to 43GHz, just short of the amateur band! To obtain displays at this sort of frequency the 8555A LO is automatically multiplied in the external mixer and mixed with the test signal. In conversation with Brian, GM8BJF it turned out that he was using a "home-brew" external mixer to look at a 24GHz signal quite successfully and it was decided to try this approach to look at 47GHz. Although the amplitude calibration using this method is not really absolute, adjustments for maximum output, sideband selection and signal cleanliness can nevertheless be examined. With no genuine surplus HP external mixers available, a small unit would have to be made as GM8BJF had done. However without access to a 1N26E diode that Brian had used, experimentation with more readily available diodes was needed. Since the mixer was going to be used at 24GHz and above, it was decided to make the unit in a very short length of WG20 which was to hand.

The figure shows the outcome of using this approach. The SMA socket was mounted on a small 4.5mm thick brass block soldered to the guide broad face, with a ~7.5mm diameter hole in it to accommodate the mounting of the diode. A short circuiting brass block was soldered in to the end of the guide at the position shown. The probe from the SMA protrudes into the guide via a 2mm hole in the guide wall. The probe itself can be a wire extension of the SMA pin, or better still the SMA pin itself.

A number of diodes were tried including those out of LNB's. All worked well, but in order to obtain a readily available source the commonly available HP HSMS 8101 diodes which are available from Farnell (Stock No. 994-649) were used. Only really applicable for use in a surface mount applications their packaging is not ideal, but since maximum efficiency is not required, they seem quite satisfactory here. Care should be excised in soldering in the diode as static can damage the device. Correct orientation of the diode should also be observed, since a positive bias voltage is applied to it from the 8555A. There are three leads on the diode package, but only two are used so its should be mounted with the lettering as shown ensuring that it is correctly orientated. It is quite possible that other diodes such as the DDC4561 or even a 1N21, could also be used, but these have not been tried.

The external mixer arrangement on the HP 8555A is clever in that the DC bias, IF

and LO all share the same cable to the mixer. Thus if a short length short length of good SHF cable is used, suitable for use at 2-4GHz (e.g SUC-COFLEX) no difficulty should be experienced in obtaining results. Adjustment of the "Ext. mixer bias" pot on the 8555A optimises the mixer / multiplication process for best signal into the analyser.

Since the frequency dial on the 8555A runs out at 43GHz some other means has to be employed to determine the frequency of the wanted signal. Luckily HP also put the LO frequency on the top of the scales, thus one knows what LO frequency the mixer is seeing!

The IF centre frequency on the highest ranges of the 8555A is 2.05GHz, thus knowing this, one can, by some arithmetic, work out what the LO frequency should be.

As an example, to display a 47.088GHz signal, 47.088 minus the 2.05GHz IF will require an LO of 45.038GHz. This is obtained by a x12 multiplication of 3.75GHz LO in the mixer. Thus the frequency set pointer should be set as close as possible to the LO frequency of 3.75GHz on the top scale of the instrument. Although I have not tried this, due to lack of a good 3GHz counter, it should be possible to connect a counter to the ext. mixer socket (watch the DC bias!) or the first LO output socket and with the 8555A set to "manual sweep" set the LO to precisely this frequency and then reset to "Int. sweep mode" again with the span set to say 1MHz. However, having said this, it appears that the "Signal Identifier" on the 8555A still operates in this non-standard mode thus one can check by the normal means if the signal being displayed is the correct one by the "usual two divisions to the left" offset.

Note that for the external mixer to function and for the LO to be directed out of the instrument correctly the 8555A *must* be operated with the band selector set to one of the frequency ranges above 18GHz. Also note that in this mode the "Input Attenuator" of the 8555A is not functional, although the "Log Ref. Level" control is.

If the power of the signal has been measured previously, on a power meter, then a crude calibration of the vertical scale can be made.

The signal being checked into the mixer should be kept to 2mW or less as driving it harder only produces more mixer products and tends to confuse the measurements. Keeping the input to this sort of level also ensures the longevity of the diode!

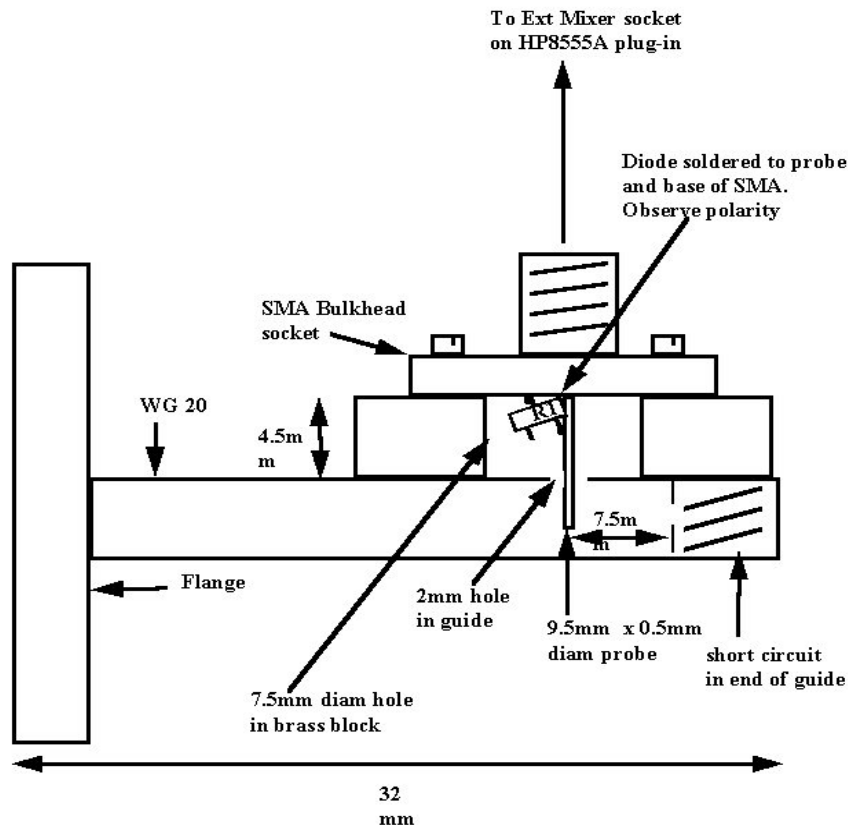
It is hoped than when I'm QRV on 76GHz that the same method can be

used to examine the signal at that frequency.

A similar diode mounting arrangement is being examined with a view to producing a useful waveguide noise source for noise figure measurements above 24GHz. If successful this will form the basis of a future article.

From the Web, thanks to <http://www.qsl.net/g8bke/HPMIX.htm>

And Harry, W3IIT, for bringing this article to our attention.



## Hello Ping Kings

This is an announcement of just another update of "Make More Miles On VHF" from the internet via W3IIT:

Find :

### \* Announcements of DXpeditions to

JP71 (DL9AN/DH7FB); KM46c (J45M, ops: PE1LWT/PA2CHR), with complete skedlist; JP91&more (DL2NUD/DK5KK), with complete op schedule; JM67/76/77 (IK0BZY); JN83vi (T9/DJ8MS/p) (DJ8MS : ex DG5TR)

URL : <<http://www.meteorscatter.net/dx.htm>> (DXpeditions)

### \* Map & listing of DL8EBW's "Most wanted Squares (Europe) 2001"

\* Listing of PA2CHR's "Most Wanted DXCC-countries (Europe) 2001"

\* a FormMailer to submit ur data to DL8EBW's "VHF-DX-Database"

URL : <<http://www.meteorscatter.net/traf.htm>> (VHF Links)

### \* a link to EA6VQ's page about "TEP on 144MHz"

URL : <<http://www.meteorscatter.net/traf.htm>> (VHF Links)

\* a link to schematics & construction details of DL9AN'S pin-diode rx/tx switch, capable of handling high power on 144MHz, might replace a sequencer when used with separate rx/tx antenna coax (in German language)

URL : <<http://www.meteorscatter.net/hard.htm>> (Hardware)

\* an up-to-date listing of European stations qrv in meteor-scatter with eMail addresses of 475 stations in 219 qth-squares of 42 European DXCC countries, the listing is frequently aligned & updated with DL8EBW's VHF DX DataBase

\* for a better view over who's where in Europe : the same listing also available on a clickable grid map of Europe

URL : <<http://www.meteorscatter.net/eurolist.htm>> (eMail Europe)

\* an up-to-date listing of North American stations qrv in meteor-scatter with eMail addresses of 198 stations in 135 qth-squares of USA/Canada/Cuba (and 1 in Brazil)

\* for a better view over who's where in America : the same listing also available on a clickable grid map of North America

URL : <<http://www.meteorscatter.net/uslist.htm>>

(eMail NorthAmerica)

\* DH5HV asking for your support in his struggle against interferences on 144.015MHz caused by central heating control (text, mp3-files)

URL : <<http://www.meteorscatter.net/interfer.htm>>

\* New stations for the listing, as well as your updates, DXpeditions infos, ideas, suggestions are always welcome !!

\* Please check your entries on the email listings for validity and report any changes. Tnx.

73, enjoy!

Bernie dk3xt/ab7iy <[gap@ilk.de](mailto:gap@ilk.de)> <[dk3xt@qsl.net](mailto:dk3xt@qsl.net)>

<<http://www.meteorscatter.net>>

"Make More Miles On VHF"

<<http://www.qsl.net/dk3xt/>>

## N.E.W.S. URL Change

The N.E.W.S. club URL is changing. In the interim you can use <http://oursite.at/news> Watch for further news soon.

-73, Ron WZ1V

## June 9-10 VHF Contest Calling ALL Pack Rats!

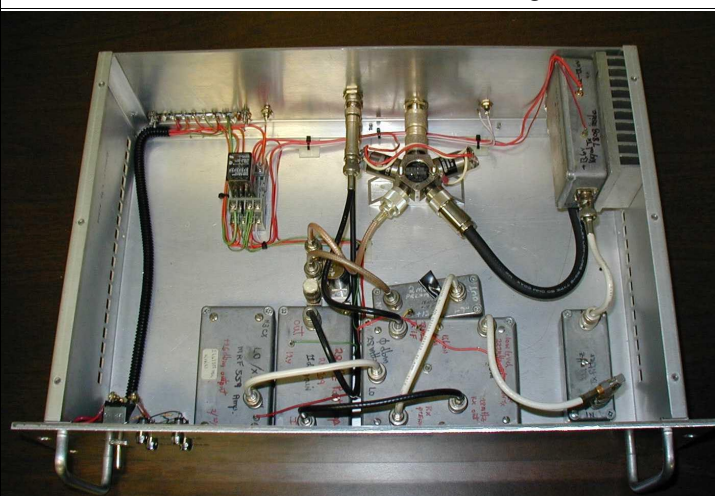


Hi All , hope everyone is all ready and fired up for the club's big summer operating event , the June VHF QSO Party. Soon it will be time for W3CCX to shake up the bands from Camelback mountain! Although the small band of hearty Packrats that make the trip to the mountain make up the backbone of the W3CCX multi-op , we need to remember that this is an effort in which everyone in the entire club can contribute to. So at this point I'd like to thank those who work "behind the scene" to make this all worthwhile.

Those who work W3CCX from home... No doubt about it , this group contributes significantly to the club score and can make a big difference , I'd like to thank all the Packrats who took the time to work the club station in the past and to do so again , indeed I'd like to urge ALL Packrats that can't come up to the mountain to find a way to work the club station on every band you can. Tip : try early in the contest , don't wait until Sun. night to work us up the bands , just in case.

The Rovers.... Take away the multipliers that we get from the Rovers who activate certain bands in those tough grids and the drop in the score would be dramatic. Let's give a big thumbs up to those guys who put in a lot of work to give us those coveted "rare" ones. ...And all those who help out in other ways... Let's not forget those who help out in other ways , there are those in the club who build or loan equipment to use up at the mountain, and those who tune up and prepare equipment for the trip. And of course thanks to K3CX for maintaining the beacons and making sure they are all on line for the effort , they are a most valuable resource for those of us up on the mountain. Also the club appreciates the fine job done by W3GXB in storing and looking after the club equipment through the year.

I think that about sums it up , I'm still looking for a few more Packrats to come up and help at the site , so if you can find time to come up PLEASE do so , if not there are other ways to contribute , the club needs everyone to make the most of this effort! 73 , CU on the mountain or CU in the Log !!! AI N3ITT



Another fine example of solid RF construction by N3NGE.  
222 Transverter and amplifier in rack panel mounting.



## 222, 6m Sprint Tid-bits

☞ Using a shop vac, I sucked about an inch of dust and fuzz off of the 222 radio and amp. That occupied the first hour of the Sprint! Began operating around 8:00 and found conditions quite good. Signals from EN91, FN35, FN14, FN02 were excellent. Was great to hear "anchor" VHF stations AF1T, W1AIM, and K1LPS still active and great operators! I worked 44 stations in 18 grids until the activity died around 10:45. Was nice to be on the air! Must say that a first-hand look at AA2UK's new rover gave me the inspiration to drag out the shop vac and fire-up the station. Thanks Bill and 73 Pack Rats! From **Rick, WC2K**

☞ 39 QSO's 12 GRIDS Equipment: Yaesu 726-R, Clegg Apollo Amplifier 300 Watts 5 Element Telerex Antenna 52'. It was a fun contest, although activity was poor, a large number of regulars were not on which could have been due to thunderstorms in the area. My noise level was running s/5 to s/10 from my northwest thru my southwest, could not hear anything but the strongest signals. Living approx 40 west of the coast my main activity was from the northeast thru the northwest. I like to thank all those stations who participated in this sprint. AI, **K3EOD**

☞ 2 contacts, 2 grids, on 6M. **Harry, W3IIT**

☞ 1 contact, 1 grid on 6M. Heard AA3RE working a lot of DX, but that was about all, as I had the van in the garage. **Rick, K1DS**

## Annual Pack Rat

## PICNIC



Hi all, hope everyone is enjoying the first taste of the summer weather to come, and thought this might be a good time to announce this year's annual club picnic. This year's picnic will again be held at the fabulous La Casa Loca Resort (a.k.a. the qth of N3ITT) located in scenic Ottsville Bucks County. My wife, Carol and I have been pleased to have hosted the picnic here the last two years, and have been hard at work to make the picnic better than ever! As always the club will provide hot dogs, hamburgers and beverages (yes beer!), with members bringing their own special dishes to complete the meal. We will have horseshoes, volleyball and badminton set up and of course the pool will be ready! Right now we are still firming up the date, but it looks like Sat. Aug. 4th (with the 5th as rain date) looks the best for us, although we can move it if it's a problem for too many people. So if you think you can take a day of eating, drinking, hangin' by the pool, and just plain old kickin' back and having fun, be sure to sign on for THE PACK RAT PICNIC !! Please RSVP as to how many in your family will be attending and what you will bring. Hope to hear from you soon and CU at the picnic!! 73 AI N3ITT **alitt@epix.net**



## 1296 Repeater in Philadelphia

This is a message informing you that our 1.2 GHz repeater is back on the air. It is located in Center City Philadelphia on a frequency of 1294.950 -20 PL 127.3 Hz. It is normally running in open carrier unless we hear noise bursts. We did not have the opportunity to upgrade the 7/8" hardline to 1-5/8" so we still have a fair amount of loss in the line. The 75 watt PA is online and we are seeing about 40 watts at the antenna.

The repeater will ID giving the time and temperature on the hour for those that only have scanners to monitor. The machine has a part time link to 449.775 WB0CPR/R in Philadelphia. Please pass the word around as our friends in Easton also have a 1200 repeater in the Lehigh Valley on 1294.000 -20 No PL. Remember that higher elevation locations or tall buildings near windows offer the best coverage outside Philadelphia. We hope to hear you on 1.2 soon. **73 DE K3PHL and KB3LRA**

## The 2001 Southeastern VHF Conference Proceedings Available

The 2001 Southeastern VHF Conference is history but you can buy a record of that history now. We have copies of the proceedings remaining and they are available for sale. The proceedings, published by the ARRL, are of the same high quality as those at Central States and other VHF conferences. Some examples of the papers contained in these proceedings are Introduction to EME by K4TAX, 1296 EME by K0YW, Microwave Dish Construction and Mounting by WA8WZG and Waveguide Slot Antennas by W1GHZ. The price is \$15 plus \$2 postage book rate or \$4 postage first class/priority. A check made out to the Southeastern VHF Society is fine for payment. Please mail your check to Jim Worsham, 1915 Oak Wind Lane, Buford, GA, 30519. Please send me an email also letting me know you are ordering a proceedings so I can make sure I reserve one for you. Thanks. 73 **Jim W4KXY w4kxy@bellsouth.net**

## The Laureate

My uncle John was in the fertilized egg business when I was young. He had several hundred young layers, called pullets, and 8 or 10 roosters whose job was to fertilize the eggs. My uncle kept records and any rooster or pullet that didn't perform well went into the pot and was replaced. Now this took an awful lot of time. So when my uncle saw a set of eight tiny bells that each rang a different tone he promptly bought them. He glued a piece of foam rubber to each clapper shaft so the bell wouldn't ring except when violently shaken. He hung a bell on each rooster's neck and went and mixed a Mint Julep. Now he could sit on the porch and sip while filling out an efficiency report on the roosters by listening to the different tones of the bells and marking down each encounter. My uncle's favorite rooster was old Brewster. A very fine specimen he was, but his bell had not rung all morning. Uncle John went to investigate. Several roosters were chasing pullets, bells a-ringing. Brewster had his bell in his beak so it couldn't ring. He'd sneak up on a pullet, do his job and walk on to the next one. Uncle was so proud of Brewster he entered him in the county fair.

Brewster was an overnight sensation. They not only awarded him the No Bell Prize but also the Pullet Surprise.

## Moving Your Cheese (for sale)

Transco SPDT 28vdc antenna relay, sma connectors removed from a 10ghz radio, so I would assume that it would be fine for 10368. \$25 shipped. Two available. Operating & Service manual for HP5255A frequency converter. \$20 shipped.

Brand new Yaesu FT-847 ( purchased 4-18-01 ) for sale. Needless to say it is mint. \$1250. Yaesu FT-726R with the 2 meter module only. The radio is in excellent condition physically and electrically. I just purchased a new rig and no now this radio is not needed. Comes with all original accessories. \$325 plus shipping. **Chuck WA2ONK C310508@aol.com73**

For Sale: Diamond MX-3000 144/430/1200MHz Triplexer, \$40 New In Box N-conn @Sum Port, N-conn @850 to 1300MHz port, rest PL25912-inch cables for 3 radio connections. AES selling price \$80 Dave **W3KM 215-795-2648 dmascaro@bellatlantic.net**

Anybody want some Andrew EW52 elliptical waveguide? Have several hundred feet to give away. It's in excellent condition and is perfect for 5.7 Ghz. I'm conducting my annual spring clean-out of cable and hardware and this stuff will become scrap copper if there's no takers. Contact me if you want it...pick-up from my QTH. **73, Rick/WC2K**

Down East transverter 28 - 50 mc. \$300 A-1050 brick \$200 Swan Mark 6 Amp. Pair 3-500 New power transformer. Has external relay \$750 Cushcraft Boomer 34 foot boom \$200

Down East 4 element Brand New \$100 I have been thinking about this for quite some time. Hate to do it but I must be practical. Thank you Herb Station op for WA2FGK If you know anyone that would like to go big time six meters please have them contact me via E mail. **wa2fgk@epix.net**

MMT28-432 Microwave Module for sale for \$145.00+shpg. Unit incl. manual and mating 5pin din power/control plug.73, Norm WA6ZFK **wa6zfk@cwnet.com**

Bird Peak Reading Conversion Kit (4300-400) for Bird 43 wattmeter. New in box. \$85 6 meter 4 element 50 mhz Rutland Array beam model RA4-50. \$70 903 mhz amp - DownEast Microwave 3318PAS R, 1 w in 18 out. Wired for SSB Rover board. (Can be converted to 1296) \$150 144/222/440 Triband FM rig - Kenwood TM-742A. 50w/25w/35w Comet Triplexer, Diamond mobile antenna and Comet CX-333 base antenna included. Like new. \$600 Heil BM-10 headset and boom microphone - \$45 **John B. N8UM n8um@home.com**

Rohn Tower HDBX48 like new \$500  
50 mc 4 element Down East New \$100  
28 mc 3 element Cushcraft One season \$75  
50 mc Preamp. Brand new Down East 6MLNA \$50  
Thank you **Herb K2LNS 570-472-2230**

Henry 432 Commercial version amplifier for sale \$750.00  
**609-352-1789. 73 Bill**

Mini-Circuits has +37 dBm, 8 dB loss IP3 mixers that can be used for a 2M to 14 MHz converter (IF 0.5 to 20MHz) with just 16 dBm of LO drive. They are under \$17each in small quantities. Looks like a good choice for a high performance single conversion rig Models HJK-3H and HUD-3H.--via Zack W1VT



## Millennial Cumulative Microwave Contest Results

The contest committee has finished tabulating the results and the beer. The official results are:

First place	ND3F	379,860 points
Second	AF1T	295,807
Third	K2AXX	2,012
Fourth	WZ1V	1,264

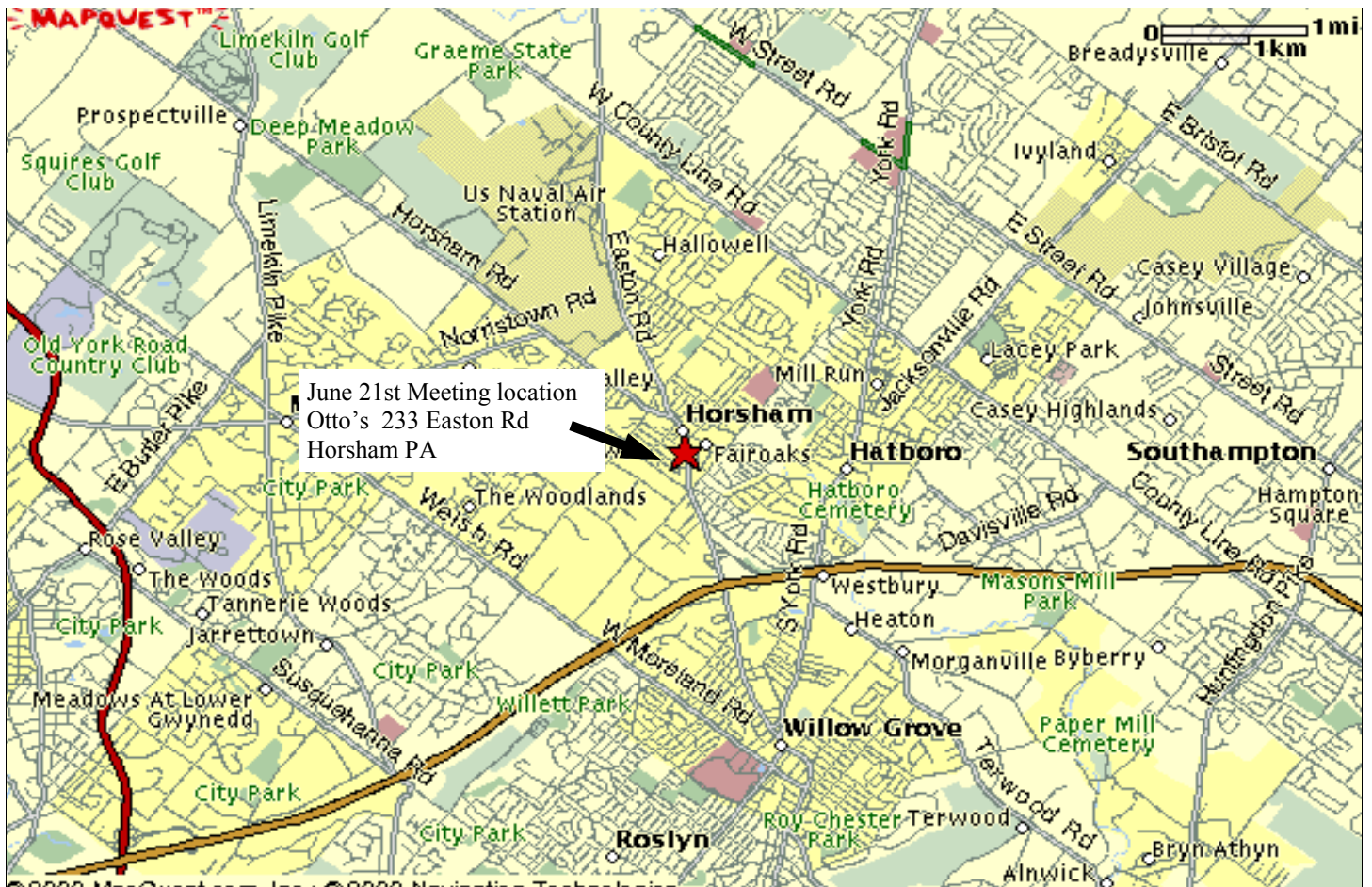
The gaudy trophy for first place and plaques for second through fourth places will be presented at the North East VHF/UHF contest. The fifth place plaque went unclaimed - don't you wish you'd submitted your entry? Well, you'll get another chance, in the real millennium year, 2001. NEWS will be sponsoring the contest again. To help with the scoring (yes, I never got around to it either) we will be developing software that will process your Cabrillo-format logs and extract the qualifying microwave contacts for you. Details and entry form available online at [www.w1ghz.cx](http://www.w1ghz.cx) and on the NEWS web page.

## The 2001 Eastern VHF/UHF Conference

Conference will be held on August 31, Sept 1&3. This is 1 week later than in past years. We hope that this will not cause any problems for anyone. We are in the process of finalizing the speakers and proceedings. Anyone wishing to be a speaker or to present a paper either in person or for the proceedings should please contact the author. The conference will be held in the same location as last year, the Radisson Hotel in Enfield, CT. Further info will be forthcoming and available on the NEWS Web site as it develops. Please mark your calendar with this date. A block of Hotel rooms has been reserved for both Friday and Saturday nights under the NEWS Group or Eastern VHF/UHF Conference. Thanks & 73's Bruce N2LIV

## "Big Cheese" News

FCC reiterates license renewal and modification basics: The FCC took advantage of the Dayton Hamvention FCC forum to remind Amateur Service licensees that license renewal and modification now is done via the Universal Licensing System--or ULS. The ULS is accessible via the FCC ULS Web site, <http://www.fcc.gov/wtb/uls>. Bill Cross, W3TN, of the FCC's Wireless Telecommunications Bureau noted that Amateur Radio licenses may not be renewed any sooner than 90 days prior to license expiration. When only changing an address, he said, licensees should choose the "Administrative Update" (AU) option. When renewing only, he said, choose "Renewal Only" (RO). To change an address while renewing your license within the 90-day window, select the "Renewal/Modification" option. An application requesting renewal that's outside the 90-day window will be dismissed, Cross said. Modifications no longer automatically result in a new ten-year license term. Call sign changes are not made unless requested by the licensee. Cross said amateur applicants needing assistance or who believe they have made an error on an application they've filed should contact the ULS help desk, [ulshelp@fcc.gov](mailto:ulshelp@fcc.gov).



Map to the meeting site for Jun 21st, Elections and Celebration Party at Otto's Brauhaus & Restaurant, 8PM. Must be present to vote





Map to Bob's, W3GXB, for loading Friday, Jun 8@ 8:30AM

1449 MAPLE RD, Kintnersville, PA 18930-9551





Our June VHF Site on Camelback Mountain in the Poconos.

Follow signs to the Camelback Ski Area, then when you begin to ascend the mountain, stay on the main mountain road all the way to the top-most parking lot. Pack some warm clothing, as it is 2200' asl, and may be cool and breezy. Rain gear might be needed if there is a weather change. Whether you are coming for a few hours or for the weekend, be sure to come!!! For those unable to make it, point your antennas this way—to FN21hb.

