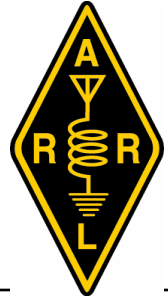




# CHEESE BITS

**W3CCX**  
CLUB MEMORIAL CALL

ARRL  
Affiliated  
Club



Volume L

February 2009

Number 2

## PREZ SEZ:

Happy and Healthy New Year to all. I trust that this will be a year of new growth for our country and our club and that we will see more peace, prosperity and reverse some of the factors that have caused national and international problems. We are off with a bang with the activity in the January VHF SS. I know that many of our flagship stations were very active and that the rovers were out in force. The more modest stations stayed on the air, and everyone who was able was in the action. I had a great time roving, and as you can see by my report, topped last year's score by a little bit. It was a thrill to have 7 QSOs on 24GHz as I made the four grid run near Morgantown and Gap, PA, aside from all the 5 and 10 GHz QSOs. I also know that I have given W3SZ a VUCC on 24GHz, and he has given me the "rover reverse" VUCC on that band, as I have worked him from FM19, FM29, FN10, FN20 and FN21. Now to find the logs and get the QSL cards! Of course all of this would not have been possible without the secret agent, W2PED, who has devoted much time and energy to getting these 24GHz transverters and amplifiers on the air. Thanks from all of us, Paul. It is fantastic to have the three mega-stations in that area all using band scopes and computers that can allow "click to contact." If you haven't seen it in operation, it's worth a trip.

Do you have a story for the *Crying Towel* meeting in February? Get your story and props, if any, ready. The February meeting will combine these tales of woe or glee with Homebrew Night. I know that the contributions are already at a high threshold with three contributions by NR6CA's microwave transverters. What have you got cooking? Nothing is too big or small or too simple or complex to be considered. If you can't get it there, a picture and/or description will do. Will K1JT feature WSPR?

Our January meeting program was a review of the past several years of January contesting by Ben WA3RLT. Although there were some ups and downs, I could not find a distinct trend in any special area, as there are so many variables including the weather, propagation, number of rovers, conflicts with family events and football game weekends. But it is nice to see that there's plenty of both lower band and microwave activity, and that we can get so many folks active on so many bands.

Many of you helped KB1JEY get his gear and antennas ready for the contest. Michael and I live close to

each other and I have followed his progress, day by day. Once he gets that big tower up, he will have a serious contribution to make to the activity. His enthusiasm is rather contagious, and he has inspired several other newcomers to become VHF active and has attracted new members to the club. I encourage others to do the same. And while we are on the topic, be sure to meet and greet new faces at the meetings.

I am extremely proud of my son and protégé, Leon N1XKT who was out and about with his 5 band rover. Same for Griff, NE3I and Bert, K3IUUV who braved the cold weather and added points to so many logs. I am waiting to see if we had any other club rovers that I missed on the air. Just in the nick of time I added more 'rats to my log before the contest ended. Of course there were a few MIAs, but hopefully that will only be temporary.

Wow—New Year's resolutions—I managed to accomplish last year's of installing and learning WSJT. Now I need a refresher. But this year it is to get K1DS on EME with the dish on the trailer, the pair of 2m yagis and possibly the single 432 yagi. All I need is time and good weather. Perhaps some good location also, as I will be trailering the entire set-up. We also need a new storage spot for the K3IPM tower trailer. Do you have a spot to park this for storage? Outdoors is fine, and the footprint is only 5' x 8'. Call me asap.

As the recruiters say, we are looking for a few good men (or women) and the nominating committee is forming now. Expect a call to participate in the nominating process and for a nomination for office or a board position. The club is successful when everyone pitches in and makes an effort to keep the traditions and the growth.

Net control stations continue to squawk about the lack of participation. These are important vehicles for maintaining your gear and testing out communications capabilities. Please make an effort to check in regularly, if not, periodically and help support this activity and the net control stations. Monday nights, starting at 7:30PM on 50.150 (or 145). And it's never too soon to think about circling the dates for the June VHF QSO party on your calendar. Set-up is Friday, June 12, with operation Sat and Sun Jun 13-14 and take-down and return on Monday, June 15<sup>th</sup>. Get your PTO days scheduled now. Lastly include the annual VHF conference, Saturday, September 26 and HAMARAMA Sunday, September 27 as 'save-the date'. 73, Rick, K1DS

Pack Rats **CHEESE BITS** is a monthly publication of the  
**Mt. AIRY VHF RADIO CLUB, INC.** -Southampton, PA.

SUBSCRIPTION RATE: \$16.00 PER YEAR (USA)  
\$20.00 PER YEAR (CANADA)  
\$10 PDF only  
\$24.00 PER YEAR ELSEWHERE

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**PACKRAT BEACONS - W3CCX/B**

FM29jw Philadelphia, PA  
50.080 144.284 222.064 432.286 903.072 1296.245 MHz  
2304.043 3456.207 5763.196 10,368.062 MHz (as of 1/08)

**MONDAY NIGHT NETS**

<u>TIME</u>	<u>FREQUENCY</u>	<u>NET CONTROL</u>
7:30 PM	50.145 MHz	K3EOD FM29II
8:00 PM	144.150 MHz	N3ITT FN20KI
8:30 PM	222.125 MHz	K3TUF FN10we
8:30 PM	224.58R MHz	W3GXB FN20jm
9:00 PM	432.110 MHz	WA3EHD FN20kd
9:30 PM	1296.100 MHz	K3TUF FN10we
10:00 PM	903.125 MHz	W2SJ FM29LW

Visit the Mt Airy VHF Radio Club at: [www.packratvhf.com](http://www.packratvhf.com) or  
[www.w3ccx.com](http://www.w3ccx.com)

## Editor's Column

**Next Meeting: February 19, 2009 7:30 pm.** At our usual site: the Ben Wilson Senior Center, 580 Delmont Av, Warminster PA. February's meeting combines the Crying Towel event and Homebrew Night. Be sure to bring material for both events!

Multiband vhf/ uhf/ microwave contest operations in January are complex enough that there's ample opportunity for things to go wrong. If Murphy's law made a visit to your shack in January, let's hear what happened!

The Homebrew Night event accepts submissions of any and all home made equipment. From the most simple to the most complex ... from works of homebrew art to works of, well, not-exactly-art. Let's see what you've built over the last year or so.

Thanks to all Packrats who participated in the January Contest! Whatever our standing in this years contest, (and I bet it will be way up there) we should all be proud of our participation. From my shack in northern NJ, it seemed like the bands were crawling with 'Rats.

To the "big guns" thanks for your investment of time, skill and effort. The results from some of our "guns" is shown throughout this month's issue of Cheese Bits. To the "little pistols" your work is very much appreciated and needed. As Ben WA3RLT showed at the January meeting, even a single Q with the clubs "big guns" can mean 100's of points to the overall club score.

This is the "Editor's Column" so this month permit me to express thanks to members who helped get your editor many more points than last year in this January's contest. To Bill K3EGE for the loan of a FT-736R and donation of rebuildable 222 and 432 yagis. To Bert K3IUUV for the loan of a nice small 432 yagi, just the size for the TV-size rotator sitting out my shack window. And to Warren WB2ONA for volunteering to come over and help me mount the antennas way up on my house. I thought he would help, but he ended up doing practically the whole job!

73, Lenny W2BVH

# January VHF Sweepstakes Rover Operations: K1DS/R

I was hoping that all the advanced preparation would pay off and the weather would cooperate. I started to charge the battery banks on Wednesday, but there were several obligations that kept me busy all week otherwise. My mom is failing, my brother flew in from Texas to see us and her and then head to the inauguration. My sister also came in from Massachusetts for the same reasons. It was a cool 16 degrees on Saturday morning as I woke and pulled the rover van out of the unheated garage, and proceeded to get the antennas and masts mounted. Over the years I have made this a KISS operation, so it takes about 15 minutes to do this, using preassembled parts and just two mating pins. Connecting the coax cables is a bit longer as I still need to put that color code tape on all the lines to assure I get the right lines to the correct antennas. N-connectors are not as cooperative at low temps as they are in balmy weather, but everything goes together OK, and I skip the step of taping the connections, as there is no rain predicted. Fingers are numb now, so inside for a cup of tea and warmth. I'm sure that K3TUF, W2PED and N3NGE were having a numbing experience as they did any tower work on Fri and Sat AM.

10:00AM, I am warm again and step out

to check the beacons. All OK on 144 through 432, but weak on 50—sure, the temporary coax cable was hooked to the radio but not the antenna! Got those cables straightened out now and it's S9. All batteries are peak charged and I clean out any extraneous stuff to make moving inside the van easier. It's hard enough with all those wires and coax cables.

11:30AM, the doorbell rings. It's Griff with a lo-o-n-n-g-g face. "Did you get my message?" No, since I left the cell phone in the house while I was setting up the rover. "Well, I screwed it up...I reversed the power leads on the 10GHz transverter and it sparked!" Hmm, let's see—yes the fuse blew, but there was no reverse power diode protection. Replace the fuse, and the LEDs are OK and the relays work, but, alas, no signal. Back to the NR6CA repair shop in Reno — sorry Randy.

12:10PM I am on my way to the first stop at FN20 at N3NGE QTH. I am daydreaming and I wind up on 276 instead of 476. A quick call to Griff and he reminds me I can get off at 76 and head to King of Prussia and then catch 476 and hook up with him. We meet on the highway and head west to Morgantown and greet Lenny and Linda and the crew assembled there for the multi-op weekend. Got the needed WD-40 spray to ease opening the van side sliding door. Lenny has a great shop and can fix anything mechanical or RF electronic on the fly.

2:00PM Let's get started with those Laser QSOs and head out from here. Run the bands. Griff is having problems with the micro stuff, and he

decides to keep to the bottom 4. We're at the local church lot and making QSOs. I get K3TUF and start to run with him, and once we're lined up on 10G, we easily complete on 24GHz with SSB sigs.

4:00PM We split up and Griff heads to Shady Maple for a bite and then to Blue Ball Elementary school in FN10 while I take up the usual spot in the cemetery on the other side of Rte 23. Another run with K3TUF and now with W3SZ and N3NGE again. Nice to have all those QSOs in the log. Other rovers NN3Q and N3IQ are in adjacent grids and we're able to run their bands also. One visit from the local police to check out my van, no problems. I get the other half of a chicken salad sandwich from Griff, as he decides to move on to the next set of grids as I finish working other stations.

6:00PM It's dark and starting to flurry. Griff is already in FM19 at a new spot that was given to us by NN3Q/R by the Monument Church in Gap, while I'm zig-zagging on 897 around all the farmlands, headed to the gravel drive on Rte 30. They have taken down the sign that proclaimed it as Scenic Welding, along with a few trees that were blocking the view. Another run on all bands thru 24GHz with K3TUF and W3SZ and through 10G with N3NGE. Panic—while trying to work W3FEY, I have no power from the 1296 amp. I check all the rig connections. Pilot error—I forgot that the IF feed was changed for the 24G QSOs and fix that and complete with George. Not a great spot for other QSOs, so I head up the hill for FM29 for the balance of the evening.

7:30PM Under the bright outside lights at the machine shop at the top of the hill, it's a pleasure to continue to work stations as fast as they come on Saturday evening. There seems to be a little lift to the signals and I'm working stations in New England which I hear rarely, and also filled in FN12. I did not have time to really look south, but did manage to get a QSO with W3OR in FM28. Run again

with the three biggies in the area, and now I have 7 24GHz QSOs in the log. It's already midnight and another hour to get home for the night. Almost 50K points in the log now. I hit the road.

7:30AM Sunday--Everyone is asleep in the house and I run to the shack in the basement to get a few QSOs for a home station log. About 2 dozen contacts later, I'm back out in the rover and headed up to the bank parking lot on the rise of 309 at Stump road to work the rest of the 'rats in FN20. 223.5 is busy as can be. Lots of Packrats in the log. Sad to be missing K3EOD this time. Hope he's making a good recovery. Elio, W3RZU is active in his 53<sup>rd</sup> year as a Packrat. Several other rovers, including my protégé N1XKT/R is out there spreading the QSOs. K3IUV/R is out with several microwave bands also and is adding the points. At 1PM I decide to move along, and get to FN30, and stop at KB1JEY to see how he is doing. Carol invited me in for a nice lunch and break from the action. Next stop is at WA3EHD and Jim is doing great, especially with his new 3456 amp. His 9 band set-up is a mastery of efficiency, as all of his activity is done by ear and touch.

4:30PM I arrive in FN30ai and find a new clear parking lot that looks southwest over water on the bay. Too bad so few stations are on the air now, as probably everyone is watching the Eagles (lose) in the league playoffs. I do manage a few QSOs with AA2UK (great to have you active again Bill) and WA3EHD, but with all so quiet, I head up to Mt. Mitchell. I tried to get into FN30 up there, but two fire engines are blocking the street, so I head to the FN20xj park, and just as I get settled and work my first QSO, the ranger pulls up and tells me he's locking the gates. He does allow me to park outside the gate, and I continue to run the bands as best I can, although the van is on a 15 degree slope of the gate entry, and of course the microwave dish will not aim properly. Now it's 7PM and things are slow, time to back-track to FN30 and see if the fire trucks are gone. On the way I find a spot in another lot near a thrift shop—

almost as good and no need to thread the needle of those one-way streets so close to the houses. Finished the run through 10GHz with K1TEO, and found lots of other stations in FN30 and FN31 and FN32 to fill in those band and grid multipliers. 10PM and time to head home, but just before that, let's go back and find the FN30 spot that looks toward home and see if the gang is on. Yes, there's a mob there---quickly run a few bands with WA3NUF, K1JT and then make several more QSOs on 2m, finally finishing with a run through 903 with N3NGE. It's been snowing for the past few hours and the roads are hazardous, with dense fog in several spots, and I'm back in the driveway at 12:50AM with 139K points in the log. The office is closed for MLK Day, and I'll be up in the morning to disassemble the rover antennas and get them back on their racks and the van safely back in the garage after another very successful rove.

I am happy that everything worked, and there was plenty of activity, and I had a lot of fun. A few nice stops at some fixed stations for a bite and refreshment. Nothing controversial or troublesome. Not very interesting! Yes, it's the problems that make the headlines---the plane landing in Hudson River and all getting off safely, not the other thousands of flights that just went on schedule and got the millions of folks where they were headed....

OK, so there were a few minor issues---like the power cord to the microwave rigs which seems to be intermittent---I got to pull it out and change the connector. The panic stop I had to make when a car in front of me suddenly stopped and a few things tumbled and I heard the sparks crackling--the 24VDC battery stack fell over and the wires came out of their crimps, but were easily restored. And the fire trucks that blocked my access to the usual FN30 spot on Mt. Mitchell in NJ, but I found an alternative that did most of what I needed. A few operator errors when I forgot to switch an antenna feed or an IF frequency of a transverter. The greatest thing was the help from all of you--the gang who have helped me put together the rover over the years, the other rovers who share their

operating plans and spots, the patience of all the fixed stations in working me through the bands, and the XYL, who finds herself busy on the contest weekends and leaves me free to operate. As a single rover now, (my harmonic N1XKT who used to family rove with me now has his own rover), I have my hands full with all the gear, antennas and driving under suboptimal conditions:. cold, snow, fog...but it wasn't as bad as some previous years. Yes, a few improvements due for next year, but glad to work all of you as well as I could. Apologies to those who I lost as we ran up the bands, or to those who I might have forgotten to QSY with.

...73, Rick

2009 ARRL January VHF Sweepstakes  
 Station: K1DS/R,  
 Grids: FN20, 10, 30, FM19, 29  
 Category:ROVER Section: EPA

Band	QSOS	QSO Pts	Mults
50	59	59	8
144	164	164	17
222	105	210	13
432	101	202	12
903	37	148	7
1296	47	188	7
2304	21	168	4
3456	17	136	4
5760	11	88	3
10368	14	112	3
24GHz	7	56	2
Laser	7	56	3
<b>Totals</b>	<b>590</b>	<b>1587</b>	<b>83+5=88</b>

Operators: K1DS

**CLAIMED SCORE: 139656**

## January Sweepstakes Results from K3TUF

I was just coming off the tower when the contest began so I ended up missing the beginning of the contest but a new band was now installed which provided the highlight of the contest.

With the expert assistance of W2PED we constructed a 24GHz box that would ultimately provide 6 qso's from 4 grids. Some would say that doesn't amount to much but it was very exciting to make each of those contacts.

Compared to the last several years my score was slightly down, about 6%, but the activity was ok. I am relatively new to this, so I don't have anything in terms of high activity to compare this with. I only have my own recent data to analyze. This year's microwave score was higher than last but the lower four bands suffered, lending credence to what some are saying about activity being down. Only the final numbers will show for sure.

This is the first January contest for me that I have been able to use my newer tower that has visibility over the trees. I am hopeful that in future years this will work to my advantage.

There were lots of rovers that announced yet there were not as many that I worked, at least not in comparison to those that announced. This could have been conditions, especially the cold. I am deeply grateful to the rovers that I did work as I know from being on the tower that the temperature was less than desirable (an understatement).

I am sure that the temperature and the precipitation were also a factor explaining why some of the microwave paths that ordinarily work, did not this year.

This was also the first year that I had 5 and 10GHz on the new tower. I can now work some of the stations that previously were unworkable. Even so, my 5 and 10GHz score were only marginally above last year leading me to conclude that when more stations are on the air it will be a substantial improvement. So I am just getting started and am looking forward to the contest of the future when all of the activity returns. Lets see how long I have to wait, meanwhile I'm just having fun with it all; building the station and operating too.

Thanks to the many Packrats who got on and worked my station. It was fun.

Phil K3TUF

2009 ARRL January VHF Sweepstakes

Station: K3TUF

Category: Single Operator, High Power

Location: FN10

Operating Time (hrs): 26

Operators: K3TUF

Band	QSOS	Mults
50	146	26
144	187	33
222	96	25
432	106	26
903	38	9
1296	41	10
2304	20	7
3456	11	4
5760	10	5
10368	13	5
24GHz	6	4
<b>Totals</b>	<b>674</b>	<b>154</b>

**CLAIMED SCORE: 236082**

## January Sweepstakes Results from N3NGE Multiop

This year my usual spectrum of preparation activities was hampered more severely than ever before due to work requirements so that many of the planned improvement projects never came to fruition. Even the station "tune-up" was curtailed to include only the more critical items. I was concerned that lack of diligence on my part would spell disaster but I am pleased to report that we suffered no serious operational issues during the contest.

The only surprise hardware problem cropped up days before the contest when the 432 preamp failed during Monday night net; the first time ever that a preamp failed here. I replaced it on Friday with temperatures in the low teens and occasional wind gusts causing a bit of a chill at 100+ feet above ground.

We had an abundant supply of operators for the first time this year so most of us got to sleep well on Saturday night. It wasn't just quantity but quality, finding favor with top notch operators who squeezed out every drop of blood from the bands. In spite of a decline in activity and the total lack of any propagation enhancements they improved the score several percent over last year. *'08 conditions were better.*

In addition to terrestrial contacts we had fairly good success with meteor scatter on 6 and 2 meters between midnight and Sunday morning except during a period of very heavy snowfall when all signals were absorbed by the white stuff.

Our contest manager, K3EGE again provided organization to ensure effective operations.

Paul, W2PED had been working on 24 GHz equipment for K3TUF and N3NGE and that huge undertaking required more

effort than expected. Paul arrived here on Sunday afternoon with the transverter and after a few hours of prep work it was hauled up the tower just at last light. I installed the tower top box/dish combo at 118' elevation working in darkness with moderate snowfall. About 1-1/2 hours later the job was complete but we took a dinner break before trying out the new equipment. Happily it worked straight-away thanks to Paul's expertise and effort.

All in all it was a good contest made especially enjoyable by the company of all my comrades; K3EGE, K1WHS, K9PW, KB2AYU, N2NRD, W2PED, N3AD and KB3MAW to whom I offer a great big Thank You for making it all happen!

73, Len N3NGE

2009 ARRL January VHF Sweepstakes

Station: N3NGE

Category: Multioperator

Location: FN20bd

Operators: K3EGE, K1WHS, K9PW, KB2AYU, N2NRD, W2PED, N3AD, KB3MAW

Band	QSOS	QSO Pts	Mults
50	395	395	51
144	457	457	55
222	144	288	31
432	204	408	35
903	45	180	11
1296	52	208	11
2304	33	264	9
3456	20	160	6
5760	12	96	5
10368	11	88	5
24GHz	3	24	2
Laser	3	24	1
<b>Totals</b>	<b>1379</b>	<b>2592</b>	<b>222</b>

**CLAIMED SCORE: 575424**

## January Sweepstakes Results from WB2RVX

It was a blast running the bands with the fixed stations and rovers. Contest went smooth in the beginning then I lost 432 early Sat with some issue I have yet to resolve at the top of the tower. When I went to bed Sat night, the solution hit me! 432 and 144 should be electrically related as far as the antenna is concerned. First thing Sun morning I connected my 2m EME array on the roof to the 432 radio and had a 1.7:1 match. Back on the air!

Many thanks to all the Packrats.

Mike - WB2RVX

2009 ARRL January VHF Sweepstakes  
 Station: WB2RVX  
 Category: Single Op All Band Hi Power  
 Location: FM29 Section:SNJ  
 Operators: WB2RVX

Band	QSOS	Mults
50	165	31
144	202	36
222	58	18
432	66	14
903	20	6
1296	27	7
2304	13	3
3456	4	2
<b>Totals</b>	<b>555</b>	<b>117</b>

**CLAIMED SCORE: 109863**

## January Sweepstakes Results from K1JT

Because of the station setup we operated essentially in a "Multi-Single" mode, and had a great time. Conditions were generally poor; we found no propagation enhancements of any kind. One highlight was that 25 of our multipliers came from random QSOs on 2m EME -- mostly with Europeans, but also Asia, Africa, and of course North America.

Thanks, guys and gals, for all the fun! We had a great time in an organized-at-the-last-minute Multi-Op at K1JT.

73, Joe K1JT

2009 ARRL January VHF Sweepstakes  
 Station: K1JT  
 Category: Multioperator Hi Power  
 Location: FN20  
 Operating time: 33 Hrs  
 Operators: K1JT, K2TXB, N2GJ, WA3GFZ

Band	QSOS	Mults
50	169	23
144	219	54
222	66	14
432	80	15
903	19	8
1296	18	6
2304	4	3
<b>Totals</b>	<b>575</b>	<b>123</b>

**CLAIMED SCORE: 105780**



# Photo Essay K3IPM's Remarkable Antenna Mobile

By EI K3JJZ

The photos in this photo essay were taken just prior to the January contest. For those of you who don't know Stan, he is a long time club member who moved from our area to Boca Raton Florida. Of course this move really screws up anyone who seriously wants to compete in the January contest. For many years Stan would come north and operate the contest from his sister's house in Levittown Pa. Not an ideal location but better than being in Boca.

Last year one of Stan's friends offered to let him set up on a much higher location in Ft. Washington PA. This is the 2<sup>nd</sup> year Stan has operated from this site. The trailer and the tower might look familiar. Stan has made the trailer available to the Pack Rats for use in the June contest on Camelback Mountain. Indeed the trailer was in use this past June. It is a remarkable piece of engineering and craftsmanship.



## Lynford "Lyn" Rowland W3NSI, SK

Long time Packrat Lyn Rowland Jr., W3NSI became a silent key on January 5, 2009. He had pancreatic cancer. Lyn was a high school teacher. He met his wife Sally, who survives him, at the high school where he taught.

Both Lyn and his father Lyn Sr. were members of the Packrats. Lyn was also a sponsor of the ham radio club at the high school.

In the words of El Weisman, K3JJZ: "I think his greatest claim to fame was his ability to home brew stuff that looked like it came off the showroom floor. This was in an era when most of the rest of us were just slapping things together and our only concern was did it work, not what did it look like".

Bert Soltoff, K3IUV, remembers: "My recollection of Lyn is that he was a craftsman, "par excellence". He constructed homebrew equipment as a continuing effort, not just to get a few items to use himself. His workmanship was meticulous, including such things as using lacing cord to dress wire harnesses, symmetrical layouts of panels and chassis, and neat and functional labeling of panel control items.

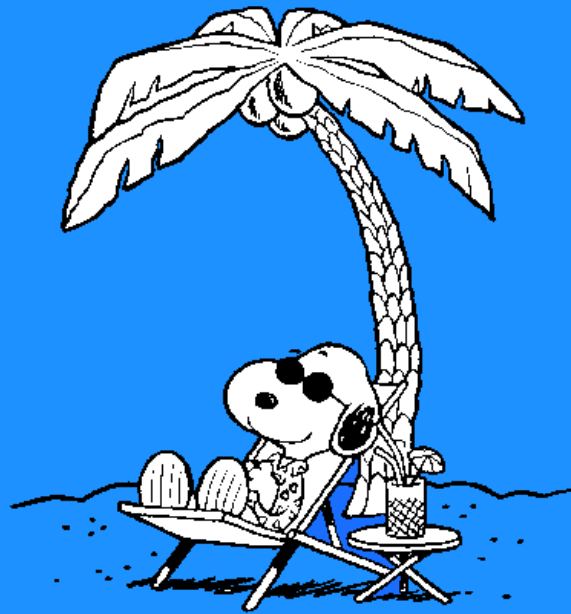
He was known more for building "from scratch", rather than modifying commercial or military surplus. And his construction projects were not only neat, they worked! Most of his vhf projects were for 6 and 2 meters, as there was not the wealth of 220 and higher activity that we have now. Many of the 'rats of that period used equipment that Lyn built .

He was active on the air from his home in Northeast Phila, and then after retirement moved to the shore and set up and operated his station there. Always good for a contest contact. He'll be missed, like all the other good Packrats that are no longer with us."

Ernie, W3KKN, reached by phone at his home had the following to say: "We set up a production line for gadgets in my basement and built different things all under Lyn's direction and supervision. Lyn also built things such as preamps, filters and other gadgets, all homebrew, to bring in to show his students and motivate them to build things too. He was known for loving the history of RF and loved to teach it to his pupils. He was a nice guy to have in the club. He was a nice guy to know. He was a part of the Packrats and the Packrats were a part of him. Just one good guy, we all loved him. Thanks Lyn for all the help you've given us and being a great ham radio operator."

Below is an example of Lyn's work, a 2 Meter transmitter owned by K3JJZ:





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### **HAM Radio URL of the Month**

This month you're encouraged to check out <http://mjrainey.googlepages.com/dasderelicht>. Not related to VHF, but definitely a Packrat page! The author creates a transmitter with parts salvaged from the base of a screw in fluorescent lamp.

### **Events**

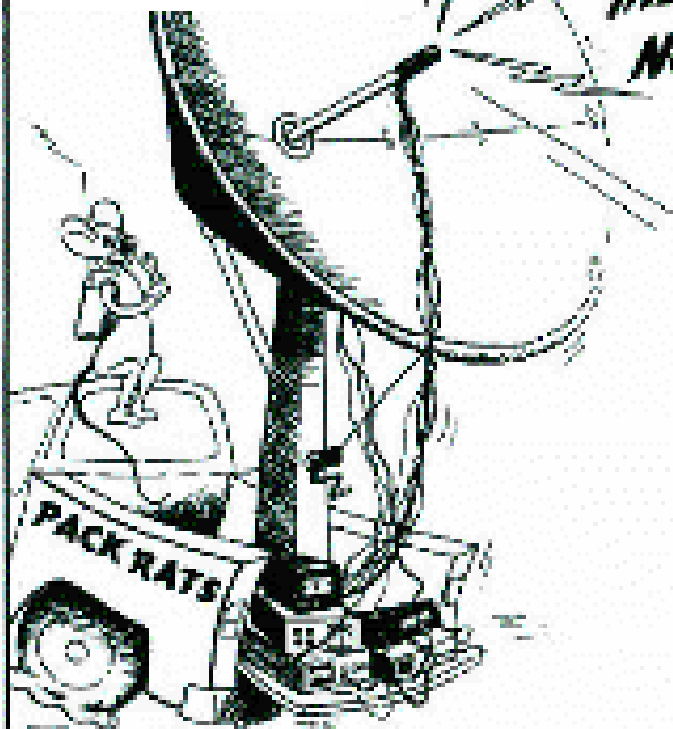
**Feb 5th - Warminster Club Auction.**  
**See <http://k3dn.com> for details.**

**Feb 21-22 - (HF) ARRL Int'l DX**  
**Contest. See ARRL Web Page**

**May - SBMS 2+ GHz contest . More**  
**details next month**

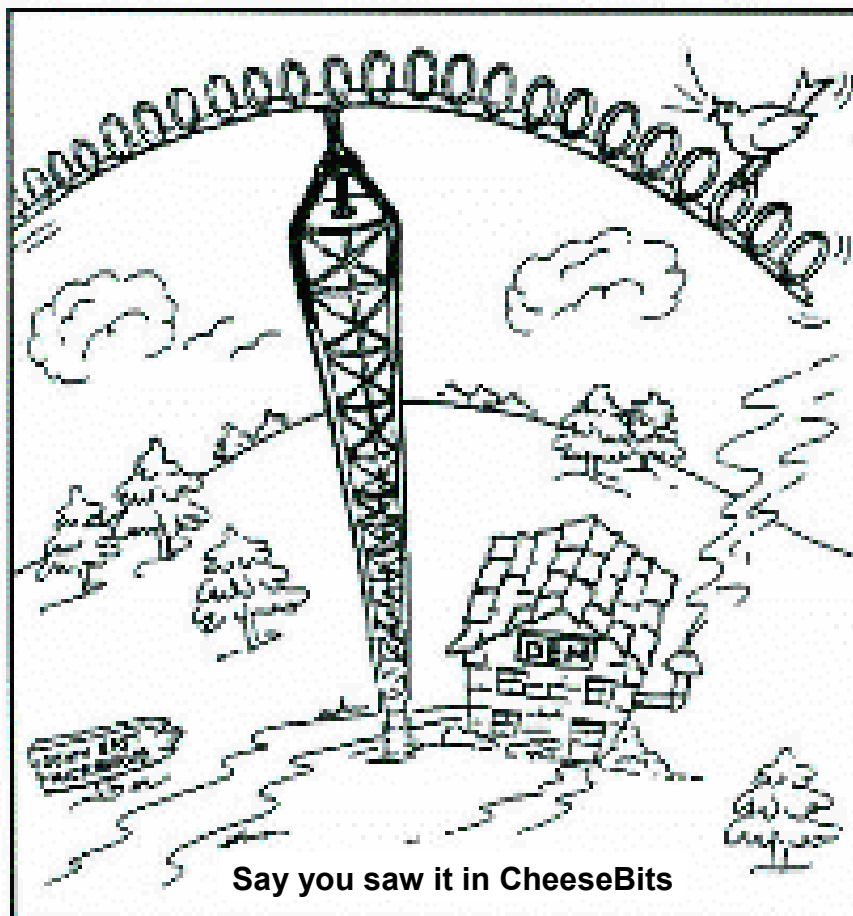
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