



# CHEESE BITS

W3CCX  
CLUB MEMORIAL CALL

ARRL  
Affiliated  
Club



Volume LIII

October 2012

Number 10

## PREZ SEZ:

October is here, the weather is cooling down, the leaves are starting to change and we had a whirlwind of a September on the radio. Hardly can I remember a month where we had a Major Contest (September VHF), the second half of another Major Contest (10g and up), three Sprints (144, 222, uW), a Task Force wide EC Drill and Hamarama. It seemed like something was going on all the time. At least the air waves are getting some good use!

How did you do in the September VHF contest? We are looking for someone to Chair this event, to encourage everyone in the club and to summarize the results after the contest. There are no serious requirements, only a sincere interest in getting fellow club members to get on and get active **at least during some** of the contest. This is a great contest to work out the kinks in anticipation of January. You can create a list of things to get working again or improved while you still have time before January. You still have over three months and some great weather ahead to accomplish these things.

Did you work Swains Island as was suggested? Some members reported to me that they did, and even though NH8S had to cease operations early, I managed four bands in both modes. My strategy was to wait till a few days before the end to avoid the clutter at the beginning. It turned out not to be a good plan this time.

If you like to hear about **DXpeditions**, then make sure you put our **November 15 meeting** on your calendar. There we will hear about our own members' 6 meter trip to Haiti.

So, along comes the second weekend of the 10 gig and up contest: at this time the fellows in NE move to a different location so we can all work them again. The most memorable contact for me was when Rick, K1DS went to Camelback and we worked on 24GHz, that makes VUCC for both of us. Roger, W3SZ also worked him. It's always amazing to see **how far** contacts are possible on such high frequency bands.

Then there were the Sprints, 144 and 222 for my station. Both evenings were somewhat eventful for the first hour or two, but slowed down considerably after 9 PM. I always seem to get some really good grids out far, but miss many right around my grid. **How did you do?** The last sprint (432) was just a few days ago. How did you do in that one?

The capstone of September was Hamarama. The weather was outstanding and the preparation work was flawless. So many of you pitch in and work this event which has been a part of Packrat history for as long as I can remember. My first Hamarama was in 1971 at the drive-in lot. Thanks to all who made it possible and to all who attended.

Lets see what October has in store for us; first the 432 Sprint, just past; then the first of three ARRL EME contest weekends, one each for October,

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

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222.98/224.58 MHz (PL 136.5) Hilltown, PA

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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 WA3QPX FM29di
8:00 PM	144.150 MHz	N3ITT FN20kl
8:30 PM	222.125 MHz	KB1JEY FN20je
8:30 PM	224.58R MHz	W3GXB FN20jm
9:00 PM	432.110 MHz	WB2RVX FM29mt
9:30 PM	1296.100 MHz	K3TUF FN10we
10:00 PM	903.100 MHz	WA3SRU FN20le

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

November and December. Pennsylvania's QSO Party is the same weekend as our Conference, consequently you can only get on for the second day :-)



The Mid Atlantic VHF Conference is October 12 and 13. We're nearly filled to capacity. What a great time to meet and mingle with folks of like radio minds, I'm really looking forward to it. **Thanks to all** who have been diligent in preparation. We have really outstanding prizes, I hardly believe anyone will go away empty handed.

So much to cover and so little space left. I want to talk about CW operation, but will save that till next month. I'll only say that you can get some exposure this month since the CQ World Wide CW DX Contest is October 26, 27 & 28. At least listen in to help improve your copy speed, it goes on for 48 hours.

Besides the Conference, another highlight of the month will be our regular meeting on October 18th where we will be **highlighting Rovers**. We have a lineup of Packrat Rovers talking all about the sport of Roving. Come and whet your appetite for going out to high places and operating. We'd like to see many more members take to the hills and operate. It will considerably help with the objectives of our club and you will have fun in the process. Come and see what new ideas you can add to your own possibilities.

**Lets work on lots of bands,**  
Phil K3TUF

# SEPTEMBER MEETING PIX



A bit of Hamarama nostalgia



Phil brings the meeting to order



This months meeting was very well attended





← Featured speaker Bob, K3RF, EPA SM gave a great presentation on the future of spectrum allocation, emcomm and on tower law.



↑ Phil accepts congratulations on another ARRL Gavel



A couple of candid





Rick outlining the program and details of the upcoming joint Packrat / N.E.W.S. **MidAtlantic / N.E. VHF Conference** (see p. 11 )

A shot of the EPA ARES first district command station located in K3RF's residence. (Cribbed from the K3RF page on QRZ.com)



← A particularly well populated Mario table at this months meeting



# HAMARAMA REPORTS & COMMENTS

## From K1DS

Finally, a day of good weather!! One out of five years is not a great batting average, but we'll take it! Under the leadership of George and Ed, things appeared to go fairly smoothly. There were plenty of buyers and sellers, and as usual, the key items were sold early, but buying continued all through the morning until about noon when the crowd left and the vendors packed up. The club table made coffee and donuts available for free and a donation jar was available and seemed to be stuffed with dollar bills. The talk-in was smoothly run thanks to Drex and his rover-mobile (**he needs a nickname for that rig. Mine is "The Great White"**). One of the attendees remarked that the directions over-the-air were excellent, and he also helped a cash-light ham find a local ATM so that he could make a deal. I sold front gate tickets from 9A-11A and enjoyed seeing the "late comers" and chatting with them.

I don't purport to be the ham who has everything, but I rarely come to buy "Schuff" as Michael calls it. On my shopping list was a 12 VDC power supply for N1XKT, a 28 VDC power supply for my new high-powered 1296 amplifier, and metering for the 28V supply. Thanks to K3MF, the 28V power supply and meters were easy pickings, although transporting that heavy metal to the car wasn't easy. I picked up a 903 preamp for a buck, to have its gain and noise figure checked at the conference. I also found a life-time supply of BNC connectors that are crimp-on style for miniature coax or perhaps UT141 hardline for a buck. Let me know if you need some. Got a hunk of 450 ohm ladder-line so we can make some more multi-band dipoles or J-poles for VHF. Just as the fellow was cutting the wire, Doc told me he has a roll of the stuff! Nice to see so many Packrats supporting the effort and staffing the tables, gate, talk-in and seller fees.

Made a final sweep at about 11:30 to see if certain items that I thought about were still there. The 10' pieces of 7/8" hard-line with connectors that was \$1 to "take it away" were gone. Probably worth more than that for the copper and connectors. The Astron 35 amp dual-metered supply was still there and I made it mine with some bargaining. I got the J-38 key for a bargain price to tease Michael into learning the code. Couldn't find any decent-sized hobby boxes for the meters, but I think I have some in the shack. **Hamarama: There's always something for everyone. 73, Rick, K1DS**

## From KA3WXV via the Packrat reflector

Hamarama was a success. We made money, continued to promote the Packrats as a great ham club, and had lots of fun.

The volunteers and others we had make all the difference. We had several non Packrats help with out efforts and they include Mark WA3QVU, Mark AA3K, Bill K3ZMA, Chris KB3SZX, and Rich KB3TXF.

The Packrats Volunteers included Michael KB1JEY, Joe WA3SRU, Ed WA3DRC (co Chair),

.... Hamarama cont'd

Rick K1DS, Bruce WA3YUE, Ben WA3RLT, Drex W3ICC, Jim WA3EHD, Bill W3HJ, Doc W3GAD, Dave W3KM, El K3JJZ, Wayde K3MF, Paul K3TUF and even though he wasn't at the Hamarama site AI N3ITT for finding and retrieving many of the items we needed to pull off the Hamarama.

Of special note this year is Joe "Bottomless Pot" Seibel, WA3SRU, who took on the task of Donuts and Coffee. Joe jumped on the logistics, setup and dispensing of the goodies. Joe along with a donation jar made a profit and made many of the Hamfest attendees happy with that hot cup of coffee on that cool early morning.

Great job Joe!

**By the way, If I missed any of the volunteers, anyone please let me know.**

I, like a lots of Packrats am just a little tired so I'll end with **"Thanks guys - the Packrats are best!"**

**One last comment - please wish AI N3ITT a speedy recovery.**

**George KA3WXV**

## The Brendan Awards

(Excerpted from QRZ NEWS by W3FEY)

The Irish Radio Transmitters Society offers several awards to promote long distance 2m communication across the Atlantic Ocean. EME contacts are common, but they do not meet the awards criteria.

The **Brendan Trophies** and **Brendan Shields** will be presented to each of the operators of the two amateur radio stations which first establish two-way communication

....Brendan cont'd

in the relevant category between the continents of Europe and America (North or South) within the Two Metre Amateur Band. If a station has more than one operator at the time of the contact, then the award will be made jointly to those operators who can show that they contributed materially to the contact at that time.

Sable Island is ideally located for an attempt, but the local restrictions on power and operating frequency make it a difficult location to use.

Someone in Labrador could have a shot.

A contact across the Atlantic near the equator could be easier than a contact from North America, but there doesn't seem to be anyone trying.

During WWII, an airfield supporting the defense of the Burma Road heard a station directing harbor traffic on their SCR522 with a ground plane antenna. They knew they were over 1000 miles from any harbor. When there was a break in traffic they called the harbor and asked where they were. The station refused to give their location, but they provided an identification code that could be checked out. The harbor was at Manila, in the Philipines.

This report was provided by Bob Mellen, W1IJD, who was the operator at the airfield which I guess was in Nepal or southwestern China. They copied the harbor traffic for several hours.

**George, W3FEY**

Editors note: See <http://www.irts.ie/cgi/brendan.cgi> for additional details and pictures of the very elegant trophies.





by **Randy WA3HLP**, near Ephrata and worked by **Dave, NZ3M** in Elizabethtown about 23:25 UTC. I missed the opening by about 5 minutes; I came down to the shack after watching a football game.

The moral of all of this is that six meters is a band that is predictable by its unpredictability. Brief openings, often no more than a minute or two in length, do occur on what otherwise seems to be a closed band. With TEP season peaking, everyone should monitor the band and propagation monitors to catch the elusive, and often brief openings.

73, Chris W3CMP

## September VHF QSO Party Results

### Phil K3TUF

Finally got my scoring issue figured out. Had a great time during the contest, thanks to all who got on.

This was a personal best score.

Very interesting time on 6m. Band would open, close and open again.

Had enhancement on 144 through 432 for brief time Sunday evening.

Claimed Score:

<u>Freq</u>	<u>Q's</u>	<u>PerQ</u>	<u>Pts</u>	<u>Grids</u>
50 MHz	149	1	149	42
144 MHz	148	1	148	34
222 MHz	72	2	144	25
432 MHz	104	2	208	30
902 MHz	40	3	120	14
1296 MHz	54	3	162	17
2304 MHz	29	4	116	11
3456 MHz	25	4	100	9
5760 MHz	22	4	88	9
10 GHz	19	4	76	8
24 GHz	1	4	4	1
<b>TOTAL</b>	<b>663</b>		<b>1315</b>	<b>200</b>
<b>263000</b>				

....September cont'd

### Lenny W2BVH

As usual, a modest score from a modest 4 band setup. Though it didn't stop me from having a lot of fun. Seems like many more contesters were willing (even eager) to take the time to run bands. More so than in the June or January contests. Go figure. Also lots of good ears out there for this contest. Had some CW Q's that would not have even been audible on SSB. A more relaxed tone to this contest than Jan. or Jun.

The effort it took to make a 6 Meter amplifier from the Harris TV channel 2 rf deck and in re-commissioning a 2 X 4CX250B 2 meter amplifier showed itself in this contest. I'm still running just 10 watts on 432 and that needs to be improved.

Claimed Score:

<u>Freq</u>	<u>Q's</u>	<u>PerQ</u>	<u>Pts</u>	<u>Grids</u>
50 MHz	42	1	42	18
144 MHz	48	1	48	18
222 MHz	19	2	38	10
432 MHz	19	2	38	10
<b>TOTAL</b>	<b>128</b>		<b>166</b>	<b>56</b>
<b>9296</b>				

## Beacon News

From Ken KA2LIM:

The RVHFG club beacons are finally back on the air, hopefully in their long-term location.

They are in FN12hv thanks to the generosity of the Antique Wireless Association. They are located on a 30 foot mast at the AWA Museum in Bloomfield, NY.

They are as follows:

50.078- 1W to a Dipole

144.297- 1W to a Big Wheel

222.050- 5W to a Par Omni-Angle

432.300- 5W to a Par Omni-Angle

1296.257- 2W to a Halo

## 10 GHz Beacon News

Howdy,

Yesterday ( September 22, 2012) I finished installing a new 10 GHz beacon on Mt Mansfield, FN34om. It is on 10.368320 GHz GPS locked via a Thunderbolt GPSDO. Power output is ~800 mW into a 16 slot (8x8) WG antenna. The site is 1152 meters high. Where the antenna is located, it has a good view from W-S-E. It is sending CW @ 12 wpm N1JEZ/B, FN34om, a 10 sec carrier and repeats.

Any reception reports appreciated!

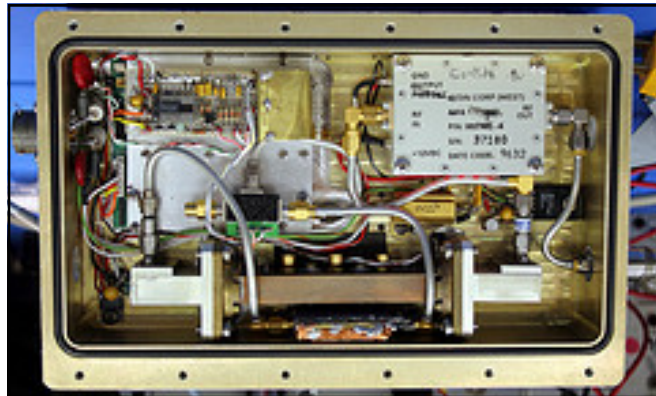
73, Mike, N1JEZ

PS - So far It has been heard by W1FKF in Woburn, MA and Mark, K1MAP at Soapstone.

PPS - K1DS intends to ask the Board to offer a prize to any 'Rat who reports reception of the beacon from PA, NJ, DE.



The slot antenna location - attached to the pole just to the left of the ladder below the large radomed yagi.



Inside the Beacon - Built by Tom, W1EX

# Mid-Atlantic / N.E. VHF Conference

Great presentations, hospitality, buy and sell, buffet  
banquet and door prizes

Friday Eve, Oct 12, Saturday October 13, 2012 at the Marriott Courtyard,  
Bensalem, PA

**Rohde & Schwarz test bench available (tell us what you want to test  
so the proper gear will be available)**

**LIMITED TABLE TOP SWAP AND SELL FRI EVE WITH HOSPITALITY**

**LIMITED TAILGATE FOR ATTENDEES ONLY SUN AM**

All registration and payment info at [www.packratvhf.com](http://www.packratvhf.com)

## Revised Program speakers:

Terry Price	W8ZN	The K8GP contest superstation
Paul Wade	W1GHZ	Flexible VCO Locking board
Phil Theis	K3TUF	SDR updates & PIC microcontrollers
Rick Rosen	K1DS	Portable EME part I
John Jaminet	W3HMS	Portable EME part II
Joe Taylor	K1JT	PPMR for JT65
Dave Olean	K1WHS	6m SSPA
Kevin Kaufhold	W9GKA	Distance scoring
Mark Casey	K1MAP	Microwave band plans
Gary Hitchner	WA2OMY	2304 SSPA
Dave Meier	N4MW	Dual band synthesized beacon
Roger Rehr	W3SZ	Bandscope
Stan Helinski	KA1ZE	The 205 Phenomenon and remote station control

***Information and Registration site now on-line at  
[www.packratvhf.com](http://www.packratvhf.com)***

# Rover Wheels Available

This was passed on to Cheese Bits by Bill K3EGE. We normally don't carry notes like this from so far afield, but it seems like it might suit a Packrat who's interested in getting going Roving

I have decided to sell my TV vans with the 40 ft Wil-Burt pneumatic masts. These are 1993 and 1995 Ford vans with the big gasoline engine. Each has a functional 40 ft Wil-Burt pneumatic mast. Each has a 6 Kw Onan generator and a complete power control console. The air conditioning works FB. There are three 19' rack panels for mounting equipment. The 1993 van has essentially new Michelin wide truck tires. There are lots of other things that might be useful to a new owner. These would make **fabulous** rovers for your area. Just go to the right grid, run the mast up and work N3NGE :-). Then move to the next grid ... remembering to run the mast down first (HI). Wayne N6NB has a new tower trailer with a 40 ft crank up tower trailer on it and he will tell you that it makes a huge difference in what you can hear and what you can work....

The '93 van has the special bracket for the top of the mast that will fit the Orion 2800 rotator. It has two type N bulkhead connectors that will allow you to run coax outside easily. There is a 2 Meter FM whip installed with RG58 coming down into the interior. There is a nice operating table installed. The Onan generator has been overhauled and runs just fine. The roof of the van is decked with expanded aluminum decking and there is a ladder on the back to allow easy access. The roof AC was replaced last year with a new one. It is a 110 VAC unit. Lots of other things..... Write or call for details.

I think that \$3500 would be a fair price for the one (the'93) with the new Michelin tires. I would take \$3000 for the one that does not have new tires.

73, Marshall, K5QE@K5QE.com, 409-787-3830

## K1DS 10 Ghz 'Test

Had a few hours Sat PM of the second 10G and up contest so I ran up to Camelback FN21hb with the rover van and worked W3SZ and K3TUF on 10G and 24G and also put K2KIB and AF1T in the log on 10G.



Rick  
K1DS

Bottom dish is 5G/10G dual feed. Radome is 24GHz

9/15/2012 from FN21

10 CW W3SZ	101	FN20ag
24 CW W3SZ	101	FN20ag
10 CW K2KIB	69	FN21qh
10 CW K3TUF	116	FN10we
24 CW K3TUF	116	FN10we
10 CW AF1T	377	FN41ql

9/16/20 from FN20jf

10 CW W3SZ	64	FN20ag
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9/16/20 from FN20he

10 CW W3SZ	51	FN20ag
24 CW W3SZ	51	FN20ag
10 CW K1TEO	222	FN31jh
10 CW K3TUF	64	FN10we

Totals 10G=8Q, 1064Km 24G=3Q. 298Km

I was most proud of the three 24GHz QSOs —K1DS

## 10 GHz Contest Write-up

Look here to find a nice write-up and introduction to 10 GHz + contesting:

<http://reactancelabs.com/?p=236>

## The Wayback Machine

Gleaned from the pages of  
Cheese Bits, October, 1962

(Vol. V Nr. 7)

(Authors comments in *italics*)

- The cover page showed a full size reproduction of a personalized Radiogram, available at a cost of 100 for \$1.50. You might wonder if this ad was appropriate. Well, page 2 explains that the proceeds are being used to help K4LCF, a Florida Ham who was severely injured by a hit-run driver. A full page article describes what happened during and after the accident, and the efforts of his Ham friends to raise money for him and his family. Helen then editorialized about hit-run drivers, and speed controls. (*Who remembers what a radiogram was, what it was used for. Does anyone still handle "traffic"?*)
- TVI. A two column article by EI, K3JJZ, was the humor for this issue. He explains how he meets a new neighbor (they're now friends for more than 45-yrs) resulting from a TVI complaint. (**Read it on our web site, for a few good laughs. Before the era of cable TV, supplied on shielded cables, TVI was the Ham's nemesis.**)
- TVI. Helen included a two-column form letter which the FCC sends to TVI complainants. The letter explains the causes, steps and remedies for incidents of TVI. This letter was

prepared and sent by the FCC as their first step in trying to resolve complaints.

- Stolen car recovered. On the Packrat net, Sept. 9th, it was reported that W3BRY's car had been stolen. The car had his call letters on the license plate. On Sept 11<sup>th</sup>, W3NSI spotted the car parked near his QTH. Lyn notified the police and the car was recovered. (*The article doesn't mention if the thief was apprehended. Another service of the Packrats!*)
- New Products. Lyn Rowland, W3NSI, reported on the newly announced double ended Nuvistor (8058) intended for grounded grid designs. The grid is tied to the shell, thus providing excellent shielding. Stable performance is ensured through 432 MHz.
- Bus trip to ARRL headquarters announced for January 1963. The Packrat "model" of the new building, constructed with "bricks" engraved with the donor's call will be presented. Cost of trip, \$10. This will include the bus and all meals!
- Cheese Bits reported that on 9/17, W3OR (*the old one, not the current holder*) made contact with his 975<sup>th</sup> six-meter mobile station. Alan (W3OR) devoted himself to working mobile operators.. His 1000<sup>th</sup> contact would be a guest at the Mobile Sixer's banquet!

....Wayback cont'd

- Things that aren't there anymore. U.N. week to be celebrated with a Ham station set up in the Gimbels building, 9<sup>th</sup> and Chestnut Sts.
- Packrats are invited to attend the Mahanoy Valley Brass Pounders dinner in Tamaqua, PA. Penna-Dutch style Ham and Turkey dinner, Entertainment, Dancing and Prizes. Price \$4.00. (*Our present committee, take note*).
- The Director of Naval Communications announced plans to form a Navy MARS system, similar to the existing Army and Air Force MARS organizations.
- On vacation in Quakake (*real place, look it up*), PA, Frankie (W3SAO) worked stations in our local area.



*thirty*, de K3IUV

## Strays...

AI, K2UYH sent the following to Cheese Bits:

This from T12EAB may interest you.

Hello AI

Yesterday I was going to send you a mail telling that the LNA was alive here. All because a broken wire at the antenna.

At the shack, I use an old Yaesu 736R, TRX that has the advantage to have continuous variable output power, good to test for instance a PA and power output. Its for VHF and UHF.

At noon, I left the transverter, LNA and 736 on, extremely happy that all equipments were ready. I left it on, just to hear the noise

.... Strays cont'd

of the LNA: a symphony for me. I took lunch and a small "siesta" before going back to work (which is just 12 minutes from home).

**BUT THEN**, my grandson, 3-1/4 years old, opened the shack door, and pushed all buttons of the 736. When I went to the shack, I found the PTT pushed, and the 736 was like a Christmas tree.

That was the end of my transverter. My happiness lasted about 40 minutes long.

I certainly do not deserve this bad luck.....after so much effort!!!!!!!

Ok when I was 6 yrs old, 1944, I remember quite well when my father got a tester, he showed to all family, with a big scale. He was T12AB, And I plugged it into a 110 volts outlet. Etc etc. I do not know why I remember this very well.

Thanks AI

Armando

## Strays...

DID YOU KNOW?  
De Bert, K3IUV

Packrats Cheese Bits, March 1979 featured the following member highlights:

- An interview by Dave, W3LHF (W3ZD) with Clarence Tuska, co-founder of the ARRL

Home-Brew night pictures with:

- WA3AXV (W3RJW), 432 Solid-State Amp
- WB2SZK (NR6CA) 1-mW to 1-Kw 432 Amp
- WA3JUF (W3KM) 1296 Preamp
- W3HQT (K1DY) 432 Strip-Line Amp
- K3IUV. 432 "Box"; K3QQ, 144/220 Quad Antenna.

Jan Contest Results:

- Top Gun, WA3AXV (W3RJW)
- 2<sup>nd</sup>, W3HQT (K2DY)
- K3IUV; K3JJZ; K3IPM. (Last time EI and I topped Stan?).

To read these and other stories, see the issues recently scanned (by Bert, K3IUV) and published on our website (W3CCX.COM) by Ron, W3RJW.

## Events

For inclusion, please direct event notices to the editor.

**EME Contest, 2.4 GHz and up -Contest** Oct 6-7, 2012. See <http://www.arrl.org/eme-contest> for details

**Joint Mid-Atlantic & Eastern VHF Conference** - October 12-14, 2012. Marriott Courtyard in Bensalem PA. For complete details see the AD elsewhere in this issue.

**Microwave Update (MUD) 2012 Conference** - October 18- 21, 2012. Hosted by: The 50MHz and Up Group of Northern California.

**EME Contest, 50-1296 MHz (round 1) - Contest** November 3-4, 2012. See <http://www.arrl.org/eme-contest> for details.

**EME Contest, 50-1296 MHz (round 2) - Contest** December 1-2, 2012. See <http://www.arrl.org/eme-contest> for details.

**January VHF Sweepstakes Contest** - January 19-21, 2013. Details to follow. Not too early to start planning!

**ARRL June VHF QSO Party - Contest** June 8-9, 2013. The annual Camelback trek. Details to follow.

**ARRL August UHF Contest** - August 3-4, 2013. Details to follow.

**10 GHz and Up (round 1) Contest** - August 17-18, 2013. Details to follow.

**September VHF QSO Party - Contest** September 14-16, 2013. Details to follow.

**10 GHz and Up (round 2) Contest** - September 21-22, 2013. Details to follow.

**EME Contest 2.3 GHz & Up Contest** - September 28-29, 2013. Details to follow.

**EME Contest 6M - 23 cm (round 1) Contest** - October 26-27, 2013. Details to follow.

## G AND G ELECTRONICS OF MARYLAND

JEFF GOLDMAN, K3DUA

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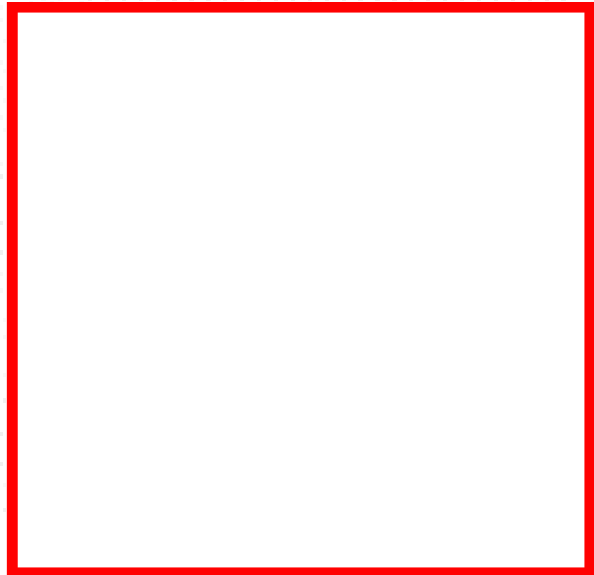
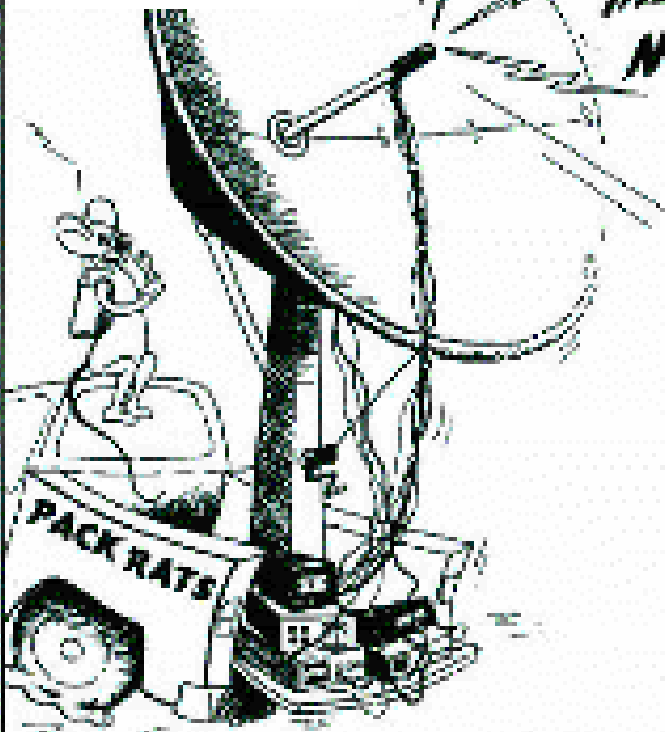
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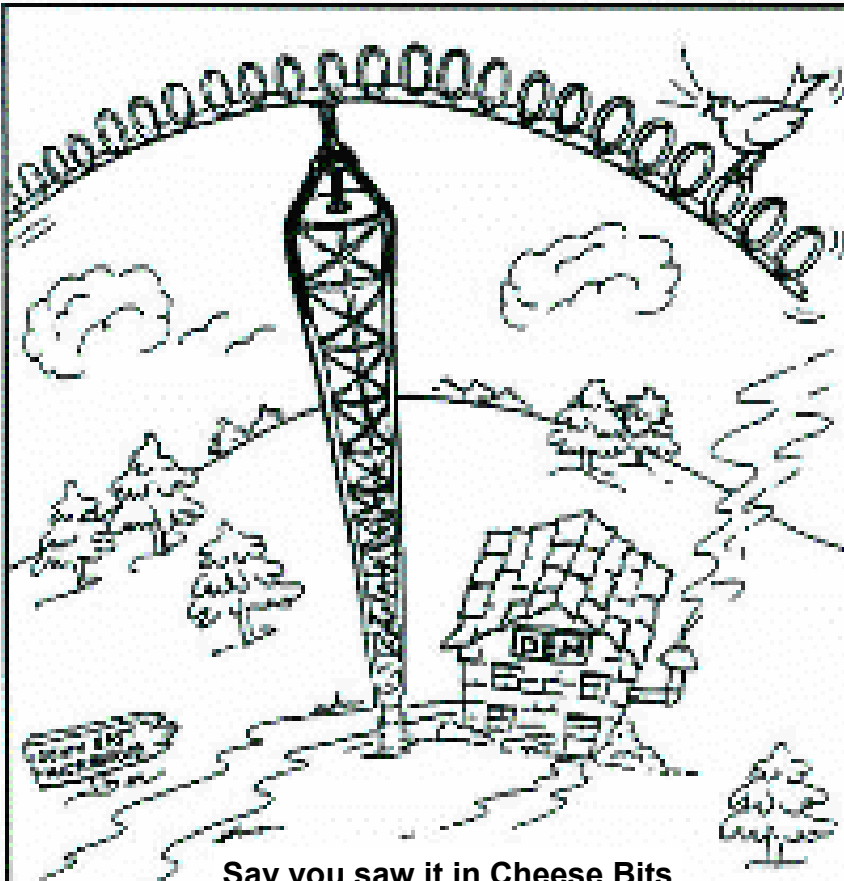
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