Mt. AIRY V.H.F. RADIO CLUB, INC.





ARRL Affiliated Club



March 2010 Volume LI Number

PREZ

March Winds, April Showers, May Flowers... lull in activities for the VHF/Microwave

community. But April brings us showers of new information. First there is the New England Weak Signal Groups Conference the weekend of April 16 through 18th. A number of it is tested and catalogued. us will be attending this excellent weekend of presentations and fellowship.

The following weekend April 23 - 25 is the Southeast VHF Conference. Several PACKRATS attend this conference and give presentations.

That same weekend is the Trenton Computer Fest (TCF). TCF opens on Friday with a IEEE Professional Conference. Saturday and Sunday are dedicated to presentations on computers and amateur radio subjects. Sunday is also the New Jersey State Camelback Mountain for the June Contest ARRL Convention. The PACKRATS are a supporting group for TCF and we need your support both Saturday and Sunday. Please see Lenny, W2BVH, to sign up for a time to help out with vendor support. Plan to attend on Sunday when the Flea Market will have more Amateur Radio focus.

The beginning of March brought a work party to the QTH of W3KKN (SK) to begin the process of cleaning out a 60 year accumulation of "stuff" so treasured by a household with two hams in it. Ernie's wife.

Bert, was very active on HF and the National Traffic System. Ernie was not only a very or so the old rhyme goes. I comical fellow, he was also an ardent SEZ can hardly wait. March is a supporter of the PACKRATS and the ARRL, an active builder, a masterful contest operator and one of the Founding Members of the Mount Airy VHF Radio Club. Needless to say he had a lot of "stuff". There will be more about his equipment in the next few weeks as

> We have several other major events coming up with a presentation in March by WB2RVX on PHOTO VOLTAICS. The April Showers come with the AWARDS and ARRL NIGHT with special guest KX9X from the ARRL Contest Branch. May will be blooming with antennas and an informative evening from a premier operator on the "Magic Band" (6 Meters) and his stacked long yagi array on a rotating tower.

> June is the annual trip to followed by the June meeting at the Ben Wilson Sr. Center for ELECTIONS and a follow up on the mountain top operation. July we have the White Elephant sale and August brings the FAMILY PICNIC. This year the picnic will once again be held at the QTH of KB1JEY in Ambler.

> Following up on N3NGE's recommendation from the January contest, I have been preparing a "TO DO LIST" of items that need attention at the W3GAD Station. It is beginning to look like the "Honey Do" list; as it

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

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PACKRAT BEACONS - W3CCX/B

FM29iw 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>		FREQUEN	<u>ICY</u>	NET CONTROL			
	7:30 PM	50.145	MHz	K3EOD FM29II			
	8:00 PM	144.150	MHz	N3ITT FN20kl			
	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			
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Visit the Mt Airy VHF Radio Club at: www.packratvhf.com or

www.w3ccx.com

too is a perpetual project. You could almost say a station improvement list a "mobius loop" with the stop marker missing.

It is terrific to have AI, K3EOD back as

lead off Net control on Monday nights. His alternative net controls have done a terrific job filling and I hope they will continue to be available for the various nets. We still need someone to fill in the empty 2304 net control position and we need operators to back up all our nets.



The next BOD

meeting will be at KB3NRL's. And in April we may try another all conference call meeting using a different media. Meanwhile...

> LISTEN FOR THE WEAK ONES de Doc W3GAD

Editors Column

Our next meeting will be at our usual meeting site, the Ben Wilson Senior Center, 580 Delmont Avenue, Warminster PA., on March 19, 2010. The meeting starts at 7:30 pm with a pre-meeting dinner around 6:00 pm for anyone who cares to attend. Dinner is at Giuseppe's Pizza 1523 West Street Road, Warminster, PA 18974 (at the shopping center diagonally across from our meeting site). The Packrats usually are in the back dining room.

This month we feature a presentation by our own Mike Gullo WB2RVX on Photovoltaics. Come on down and hear what Mike has to tell us on this very green subject.

As always Ed, WA3BZT, and I welcome your contributions to Cheese Bits. If you have a project in the works or completed or some experience you'd like to share, please write it up and send it to Ed or myself. The whole membership would love to see your contribution!

Finally, please accept my apology for the lateness of Cheese Bits this month. An ongoing family emergency has limited my time in the editors chair. Hopefully it will be resolved in time for the April issue.

Enjoy this months issue!

73, Lenny W2BVH

Complete January 2010 Contest Results

How did you do in this years January Sweepstakes? Find out below.

Total Logs: 70	M				c. `The Pack Ra takes Contest	ts`	Club Score:	2,699,	809
- Total - Call QSOs Grids core	50 MHz	Co 144 MHZ		nd Grids 432 MHz	per band 903MHz 1.3GHz	2.3GHz 3.4GHz	5.7GHz 10GHz	24GHz	Laser
Call QSOS Grids core K3TUF 681 139 195295 K1DS/R 626 91 157612 M82RVX 593 144 153360 M3SZ 514 113 148821 MA3NUF 621 106 142040 K1JT 597 153 130509 M2SJ 545 90 125370 M3RJW 430 82 86018 MA3DRC 432 73 83585 M3IPM 525 84 77028 MN3Q/R 410 65 51675 M3GAD 393 62 45880 MORSJ 378 87 44979 MA3QPX 259 71 35642 M3ITT 318 55 32615 M3KM 338 62 31744 MA3GFZ 276 54 25434 M2BVH 281 55 20460 MA2OMY 255 45 20430 K3FQS 293 39 20007 M3ICC 341 42 19782 K3MF 201 57 16131 K3JJZ 252 41 15785 MA3RLT 224 39 14352 MA3RLT 224 39 14352 MA3RLT 224 39 14352 MA3RLT 224 39 14352 MA3RLT 225 36 12888 K83BBR 197 37 11581 K3IUV/R 119 23 9775 MA3YUE 140 34 9656 KZTXB 282 32 9024 MA3EHD 172 23 8234 M32H	182 24 82 12 176 31 110 17 142 19 192 29 99 14 889 16 62 7 166 24 67 8 109 12 124 24 80 16 72 12 124 24 80 16 72 12 125 16 77 11 51 8 65 6 677 11 52 16 77 19 65 9 64 8 52 7 41 10 32 3	197 29 162 16 171 48 129 20 184 21 225 2 31 6 282 32 50 7	82 21 107 13 69 19 67 15 82 16 63 17 79 14 54 10 57 7 74 13 50 9 58 11 65 19 32 11 37 8 40 12 55 7 52 7 52 4 40 7 38 7 22 4 31 6 32 2 21 5		35 9 41 11 36 6 41 6 29 8 30 8 31 8 38 7 33 9 38 8 22 7 16 6 37 7 43 7 23 6 30 6 31 6 43 8 18 4 17 4 29 6 38 6 22 6 25 5 16 5 20 6 10 2 24 6 13 3 10 4 11 4 12 3 15 3 14 3 12 6 8 2 5 2 21 5 16 4 7 2 9 2 9 3 11 4 15 3	2.3GHz 3.4GHz 18 5 9 4 22 4 19 4 9 5 3 1 24 7 14 7 24 6 12 5 29 6 15 5 22 6 12 3 15 3 5 2 4 2 5 2 9 3 9 5 9 2 5 2 3 1 1 1 8 4 4 2 2 2 8 2 6 2 7 2 4 2	5.7GHz 10GHz 6	24GHZ 5 4 11 3	Laser 4 2 4 1 1 1 1 1 1 1 1 1 7 2
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Call QSOs Grids Score	50 MHz	144 MHZ	222 MHz	432 MHz	per band 903MHz 1.3GHz				
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K3EOD 592 105 110040 1 Ops: K3EOD N2GJ N3RG WA3WI		177 24	71 17	80 18	29 8 33 8	14 6	1 1	I	3 1
WB3IGR 200 70 27720 4 Ops: WB3IGR WF1L	41 11	61 16	30 11	31 12	18 9 13 7	6 4	1 1	l	l

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Eleven Years of the VHF SS

Joe Taylor, K1JT

Recently some 'Rats have been asking questions about factors that affect one's score in the annual ARRL VHF Sweepstakes. This got me to thinking... and at my age this often means reminiscing. The following account is a result of that process.

My first encounter with the VHF SS was in 1956, when I submitted a multi-op entry with my brother. We were both in high school at the time. We made 114 QSOs in 6 ARRL sections, good for 1368 points — not much of a score, but it was great fun making those contacts with equipment we had built mostly by ourselves. We were seriously hooked. Two years later we set a scoring record for the VHF SS, making 507 QSOs in 26 sections. That record stood for a decade or so.

Soon we were off to college, graduate school, marriage, and starting families. Priorities necessarily changed, but at some level our interests in Amateur Radio, the VHF bands, and contesting never died. In 1999, with four children launched on their own and a bit more time on my hands, I started working my way back into active ham radio. I bought an FT-847, strung some wire between trees for an HF antenna, and began acquiring the bits and pieces necessary to get back into "The World Above 50 Mc/s." Among other things, I was thinking what fun it would be to enter the VHF Sweepstakes once more.

By January 2000 I had a mast on the roof bearing yagis with 4 elements on six, 11 on two, 16 on 222, and 28 on 432. As expected, the VHF SS that year was a ton of fun! Some operating practices were different than I had remembered — for example, I'd never heard of "running the bands" before — but lots of the good old feelings were there, as well. I was "re-hooked," you might say, and each January since then I've been back in the fray. Prompted by the questions from fellow 'Rats mentioned above, I've looked over my results

for these 11 years with a critical eye. I'll summarize them here, together with a few comparisons with results from other operators.

Scoring in a radio contest depends to a large extent on what you can manage for station equipment and antennas. Therefore, let's start with a brief description of how my station has evolved. In 2000 and 2001 I had 100 Watts on the bottom four bands, together with the antennas mentioned above. Not too shabby, but still a small station. By January 2002 I had put up a 70-ft tower with 7 elements on six, 4×9 on two, 2×16 on 222, 4×28 on 432, and loopers for 903 and 1296. By 2003 I started adding some power: 300 W on six, 500 W on two, and 250 W each on 222 and 432. For the 2004 and 2005 contests I added 2304 MHz, increased power on six to 700 W, and configured everything for a multiop effort with separate operating positions for six meters, two meters, and 222-and-up.

The multi-op setup worked well for a couple of years, but did not mesh well with what I wanted to do in other months of the year. I was getting seriously interested in EME on two meters, so in 2006 I went back to a single-operator setup. I increased power to 1100 W on two, and in 2008 I changed the antenna configuration to include 4×13-element dual-polarization yagis on 2m, steerable in both azimuth and elevation. I kept the 7-element six-meter yagi and the loopers, but reduced the antennas on 222 and 432 to a single yagi on each band.

How has it all worked, for purposes of scoring in the January contest? I find it easiest to tell the story graphically. Scores in this contest are given by (total QSO points) × (sum of multiplers on each band), so let's start by looking at these quantities. Figure 1 shows my QSO points, multipliers, and total scores over the past 11 January contests. The scoring high point of 254k was set in 2004 by the multi-op crew of K2TXB, KC2DLA, K2BMI, KU3A, N3EVV, and K1JT. In other years I (or we) have usually been somewhere in the 100k-170k point range.

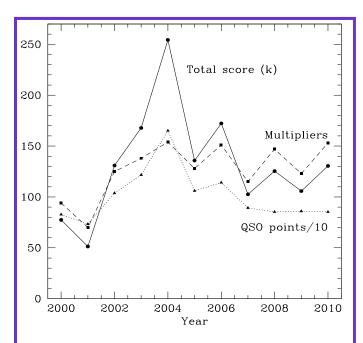


Fig. 1 – Total score in thousands of points, QSO points divided by 10, and total multipliers worked at K1JT in the VHF SS in the years 2000 – 2010.

My ratio of QSO points to multipliers is usually in the range 5 to 8, and more like 8 to 11 when operating in "multi-multi" mode (multiple operators and multiple simultaneous transmitters). These are important numbers, as they tell how many QSO points are needed to produce a scoring increment equal to that of one additional multiplier.

Figures 2 and 3 present breakdowns of QSO points and multipliers by band, over the 11 years. It's easy to see that I haven't capitalized particularly well on the opportunities for 4-point and 8-point QSOs at 903 MHz and above. Bigger scores would surely result from putting more effort into these "money bands." My excuse is that I have trouble justifying such effort for use on just one weekend per year.

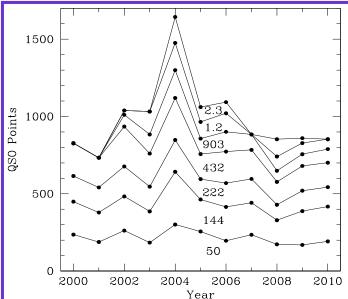


Fig. 2 – QSO points on a cumulative bandby-band basis, from 50 through 2304 MHz.

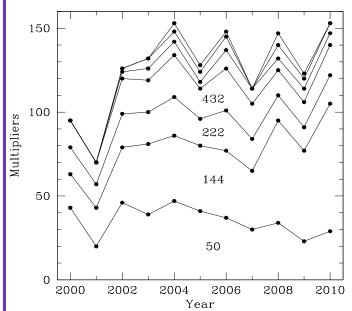


Fig. 3 – Multipliers on a cumulative band-by-band basis, from 50 through 2304 MHz.

Why do I always seem to work more multipliers and make better scores in even-numbered years? Who knows? ... but it never seems to fail. Weather has been a contributing factor: we had an ice storm in 2001, and a blizzard in 2005. I don't know what happened in 2007 or 2009. Does global warming have a hidden biennial cycle? Maybe I can do something about this trend in 2011.

Figure 3 gives a good idea of my own interests and station priorities: I usually work more than half of my multipliers on six and two meters. Contacts via meteor scatter have added 14 to 38 multipliers to my totals each year, starting in 2002, and 2m EME QSOs have been important since 2008. I don't recommend this approach as an optimum scoring strategy for everyone, but it has been effective for me, with my present operating interests.

For some comparison examples let's look at the log summaries for W2SJ, K1JT, and K3TUF in the 2010 contest. The claimed scores are 125k, 130k, and 195k, respectively. Figure 4 shows how the QSO points and multipliers break down by band, for each station. Bob's and Phil's logs show very clearly that QSO points and multipliers on the high bands pay off handsomely. Similar conclusions would be reached by examining contest logs from other club members, e.g. WA3NUF or WB2RVX. It's interesting to note that the ratio of QSO points to multipliers this year was 5.6 for K1JT, 10.1 for K3TUF, and 15.5 for W2SJ. There's more than one way to skin a cat... but a few more microwave QSOs at K1JT would make a big difference in score, as would a few more multipliers at W2SJ.

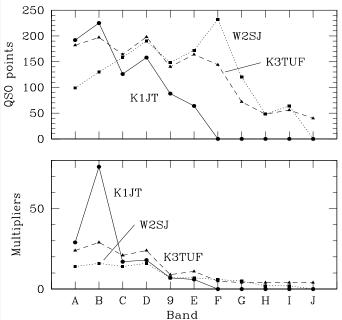


Fig. 4 – Comparison of the W2SJ, K3TUF, and K1JT logs for the 2010 VHF SS.

Finally, let me make a point about the importance of staying in the shack seeking

QSOs for as long as you can, throughout the whole contest. WA3RLT's presentation each December emphasizes this point very effectively, and my own logs also illustrate it nicely. We always feel like we're doing best near the start of a contest, when QSO rates are high. Later on activity tails off, and by Sunday afternoon things generally seem slow. As shown in Figure 5, based on my log for January 2010, these impressions are perfectly correct: we generally *are* doing best early in the contest, in terms of QSOs, QSO points, and new multipliers.

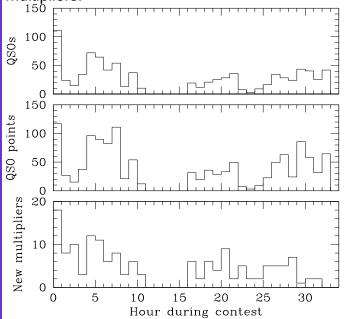


Fig. 5 – Incremental QSOs, QSO points, and multipliers on an hour-by-hour basis for the January 2010 contest at K1JT.

However, the bottom line is neither QSO points nor multipliers, but rather their product. If QSO points and multipliers both continue to grow, even relatively slowly, the final hours of a contest are very important. An hour-by-hour graph of cumulative score almost always steepens near the end. The top panel of Figure 6 illustrates this effect for my January 2010 log. The lower panel confirms that incremental score, per hour, tends to be highest in the final hours of a contest.

Here are some final thoughts on scoring in the VHF SS. I know from experience that it's extremely hard for a single-op station to break the 100k scoring barrier on the bottom four

bands alone. I didn't quite do it this year, even with a personal high of 225×76 on two meters and very respectable performances on the other three bands. Of course, if you're surrounded by hills, it's even tougher. (I'm not; most of central New Jersey is pretty flat.) You can certainly get into the 20–50k range on the bottom four bands, however, even with low power. For higher scores you definitely need more bands. Those 4-point and 8-point QSOs, which you can make with low power, make a surprisingly big difference!

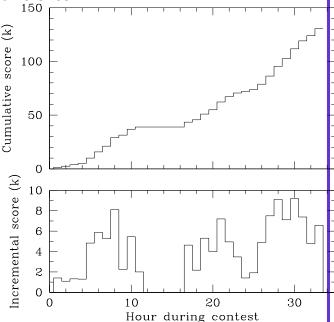


Fig. 6 – Cumulative and incremental score on an hour-by-hour basis for the January 2010 contest at K1JT.

My other advice, for the record: use digital modes to work grids that you can't work any other way. Use CW, especially on the microwave bands. Configure your station so you can run the bands quickly. Work the rovers.

See you next January!

New Antlers at WA3SRU

By Joe Seibel

Here's the story of the new tower and antenna lineup at WA3SRU, installed just in time for the January 2010 VHF Sweepstakes.

First shovel of dirt for the new tower was September, 09. Completion of job with antennas for 5 bands plus side mount for 2/440 was January 15, 2010.

The former Asplundh bucket truck was from a friend of my son. They actually do tree work. They had some spare time and since weather was going to be nice for a couple days, I went ahead and set up the installation. All antennas were in place in only 2 1/2 hours. Things go quickly when you have the right tools!

I ran all coax through a window to a temporary location for the ARRL January VHF Sweepstakes. With the help of Packrats members, KB1JEY, K1DS, WA2OMY and K3TUF, I was able to get on 903 with the club project 903 amplifier.

With 1 watt out from the transverter to the amplifier, I was getting about 30 watts out.

Once the antennas were installed, I had my temporary station up and running in 8 days on 5 bands. My totals for the contest were: 225 Q's, 36 Grids for a point total of 12, 888, beating last years 438 points by quite a margin I worked 39 Packrats and had 134 Packrats Q's.

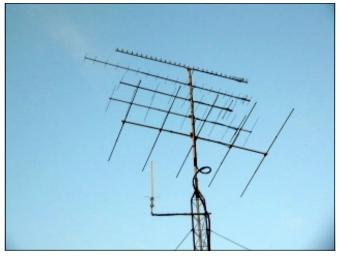
Here are a few pictures of the antenna job:





Antennas laying on ground ready to be installed

Installer placing the rotor in the tower



View of top of tower with all antennas- 903, 432, 220, 144 & 6 meter. On side mount is diamond 2/440.



6 meter beam done. Lashing coax to mast



<-- Picture of my temporary station shows, left to right, amp, ps & FT-897 for 432. Icom 746Pro for 6 and 2 meter ssb. TS-430s as an IF rig for my Demi Transverters on 222 and 903. A Demi Sequencer and a lot of cables & wiring were used to put it all together. Thanks again to all the Packrats that helped me to be on 903 for the contest. Thanks to Stan, K3IPM for the loan of the amp & power supply and Al K3WGR for the loan of the FT-897 for use on 432.</p>

K3IUV Rover Setup in the January VHF Sweepstakes

by Bert Soltoff

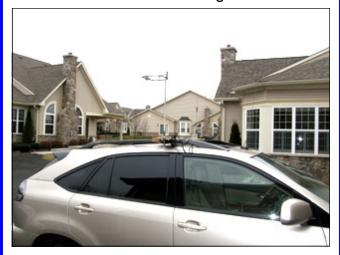
Here are some pictures of K3IUV/R showing the 6-band unit on the shelf that I put in the passenger seat of my SUV. I used a couple of angle brackets to bolt the front panel to the shelf. The Icom driver was also mounted with angle brackets, and a Midland for 220 FM was held on top with Bungee cord. I had enough space to bungee down a laptop, but decided against using it. It is just easier to do paper logs, then type it all in post-contest.



And thanks to **Rick K1DS** for assembling the antennas. I used a 2-position coax switch to route the 2-Meter signal to an antenna, or to the xvtr IF input/output. So all I had to do for microwave use was throw the coax switch, and select desired band on front panel. **A really neat job, Randy.**

The picture of the outside of the IUV Rover shows the 2-meter halo, built and sold commercially by a club member, Ben Chalmers (K3BVZ), about 45 years ago. The last time I used it I was running a 6-meter AM Black Widow

rig, mobile in the Jan contest. That was in 1967 when I moved into my last house, and didn't have antennas up yet! Anybody else remember the Black Widow rig?



The insides of the microwave setup looks a little like an explosion in a microwave factory, but the fact of the matter is that it **works very well**.



Ham Radio URL of the Month

As a tie-in to the QUAGI URL a few issues back, here is an article by IK1HGE on a computer modeled QUAGI that improves performance over N6NB's original antenna

Check out http://www.qsl.net/ik1hge/homebrew/homebrew.html

ENJOY! — Lenny W2BVH

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ARRL New Jersey State Convention

TCNJ Hosts the Convention in Conjunction with the Trenton Computer Festival, April 23 – 25

"We are pleased to announce, for the first time, the ARRL New Jersey State Convention will be held at TCF on Sunday, April 25th 2010. This year we will feature a full day of radio related presentations, forums and vendors. Reviving the old tradition of a New Jersey State ARRL Convention and sponsored by the Delaware Valley Radio Association, planned radio related presentation topics include DXing, Contesting, Satellite Communications, Digital Communications methods, Software Defined Radio, Emergency Communications, VHF Rovering, WiFi, ARRL Forums and more! We also plan to hold onsite Amateur Radio Examinations both days, run a one-day Radio Licensing prep course (on Saturday) and have door prizes. So come out and learn more about radio, and the wireless revolution!"

In addition we hope to have DXCC card checking available.

The convention will be held along with the world's original computer show, the Trenton Computer Festival TCF (which celebrate its 35th anniversary in 2010!)

Come celebrate with your fellow ham radio enthusiasts Saturday, April 24th and Sunday, April 25th at The College of New Jersey in Ewing. In addition to the Ham Radio presentations there will be a full schedule of informative panel sessions, tutorials, demos, and other computer-related educational events 10 am – 5 pm on Saturday and 10 am – 4 pm on Sunday.

The popular **computer and electronics sales center and ham radio flea market** (rain or shine!) will also be offered.

The primary venues for TCF include TCNJ's Brower Student Center and the Social Sciences Building. Exhibits and events include Amateur Radio license exams on Sunday, April 25th. Two-day admission tickets are available for \$12 in advance and \$15 at the gate. Sunday-only admission is \$10.00, also at the gate. Advance tickets may be purchased from www.tcf-nj.org by Sunday, April 18. Check the site for information on bringing your robot for free admission! Parking is free. Also visit www.tcf-nj.org for more TCF '10 details, including festival only deals from marketplace vendors.

Also, remember that the Packrats will be supervising the vendors at the TCF Flea Market on both days of the Festival. We already have some volunteers for this activity but we still need more. Please consider volunteering to help with this effort. Contact Lenny, W2BVH at the next meeting or at lennyw@comcast.net if you'd like more information or would like to help out.

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Events

For inclusion, please direct event notices to the editor.

Eastern VHF/UHF Conference - April 16-18, 2010. See http://www.newsvhf.com/vhfconf.html for registration and further details

SVHFS Technical Conference - April 23-24, 2010. Morehead State University. See http://www.svhfs.org/conference.html for details

OMARC Tailgate Hamfest - April 17 2010. Project Diana Site, Wall NJ. See http://www.omarc.org for details

JCDXA Hamfest - (Jersey Coast Chapter of the NADXA) April 10 and Sept. 11, 2010. Details to follow. See http://nadxa.org when available.

Eastern VHF/UHF Conference -

Sponsored by the Eastern VHF/UHF Society and the North East Weak Signal Group. Tentative date April 16-18 2010. Details to follow.

Trenton Computer Festival / NJ State ARRL Convention— April 24-25, 2010. A combined event. Computer and ham radio presentations, hamfest and computerfest. See article on page 10 for details. Don't miss this one!

Dayton Hamvention Convention / Hamfest - May 14-16, 2010 One of the largest ham events in the US. See http://www.hamvention.org/ for details.

ARRL June VHF QSO Party Contest - Jun 13-14, 2010 Details to follow at http://www.arrl.org/contests/rules/2010/june-vhf.html, when available

Valley Forge Hamfest and Computer Fair Hamfest - July 18 2010. See http://

www.marc-radio.org for details

CQ WW VHF Contest— 3rd full weekend in July. Details to follow.

ARRL UHF Contest - Aug 1-2, 2010. Details to follow ARRL 10 GHz and Up Contest—Aug 15-16, 2010. Details to follow

ARRL September VHF QSO Party Contest - Sept 12-13, 2010. Details to follow

ARRL 10 GHz and Up Contest— Sept 19-20, 2010. Details to follow

ARRL International EME Competition Contest— Oct 10-11, 2010. Details to follow.

ARRL International EME Competition Contest— Nov 7-8, 2010. Details to follow.

Joel Knoblock W3RFC www.therfc.com The R.F.Connection

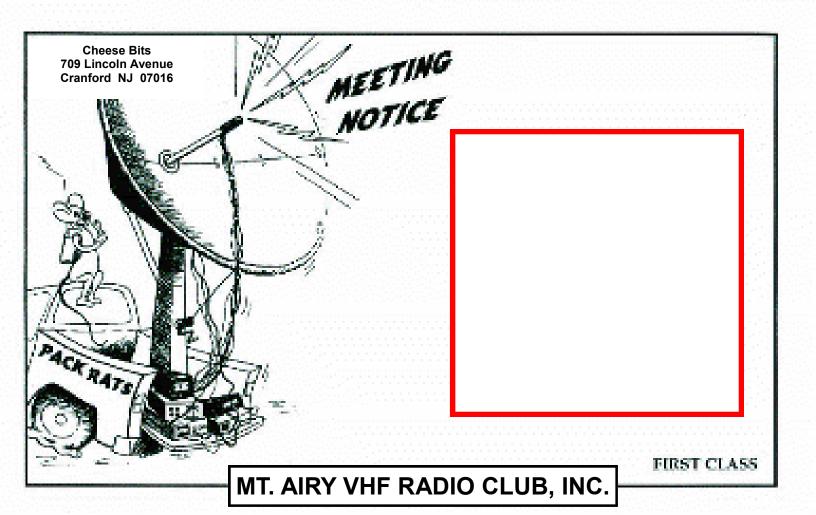
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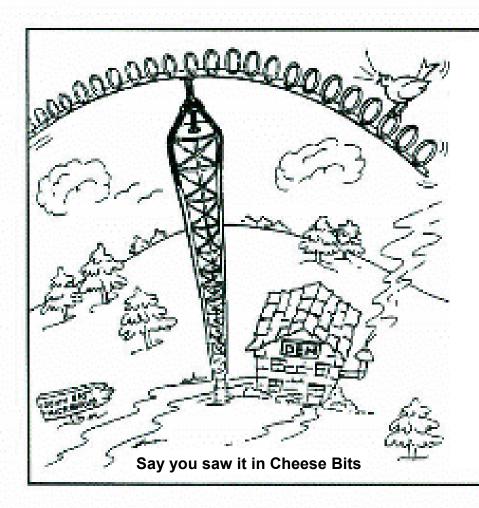
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