

## Potomac Valley Radio Club Newsletter

January, 2009 Edition

Visit us on the web at <u>www.pvrc.org</u>
Submissions to <u>pvrc [at] his.com</u>

# Have a Great 2009... (and don't forget to submit your scores!)

From the PVRC President

from Ken, K4ZW

#### **Editorial Musings**

from Eric, W3DQ

#### **Happy 2009!**

By now most everyone has settled back into their normal routine following the holiday season. Those of us in the National Capital region had the Presidential Inauguration activities to contend with last week before things quieted down again.

**2008** was a banner year for PVRC. We have a lot to be proud of and those accomplishments are a direct result of the individual contributions from members and chapters throughout our region. Thank you for your support! Nowhere was this more evident than our turnout and the resulting club score we put together for the 75th anniversary of ARRL Sweepstakes. It sure was fun to be part of such an energetic and motivated group. We all look forward to the final results.

As February rolls around it's time to get back into action with the NCJ Sprints, a good warm-up, CQWW RTTY WPX, ARRL DX CW, and CQWW 160 SSB. February has something for everyone!

As you may have noticed, our newsletter has been on a bit of a hiatus. I'm sure Eric will mention this too but I also want to ask for your support. With such a large club and all of the activity going on, there is plenty to write about. You don't need to be a professional writer either. What's important is that members share their activities and contesting stories with us.

Here's to a great 2009. Go PVRC!

Editor's Note: You might have heard K4ZW in the CQ 160 CW contes, not as K4ZW, but rather as EY8MM!

"So, Mr. Editor, where have you been and where is my PVRC Newsletter?"

Okay, I confess to being distracted by other things. In October, after a year of limited mobility and discomfort, I joined K0DQ, N3HBX and K4VV as a the recipient of a new knee. Recovery has been interesting and, so far, successful, thanks to the encouragement of these fellow PVRC members and many others.

What hasn't quite recovered from this period is the relative neglect of my station, but I'm working on that. That was obvious this past week with the operation of the W3A special event activity followed by the CQ WW !60m CW contest.

Regarding the PVRC Newsletter, I hope to put it back on a regular, possibly less frequent schedule. I hope to add more historical material (including photos and QSL cards), along with material from other sources.

I will do my best to include standings and one or two reflector write-ups of recent (since the last issue) contests. If you have a list of "for sale" items, please send them along.

For those who have asked, there are some articles in the queue, which will get into upcoming issues. But in the end, I count on you, the PVRC members (and non-members, for that matter) to supply me with material.

I trust all of you had a great holiday, that you found just what you were looking for "under the tree," and that you've been energized to dive back into the contest maelstrom!

I look forward to hearing you on the air and receiving your contributions for this Newsletter.

UPDATE YOUR PVRC ROSTER and 5M AWARD INFORMATION

no to: <a href="http://www.pvrc.org/5M/Roster\_Lookup.php">http://www.pvrc.org/5M/Roster\_Lookup.php</a>

Here's the first look at some future PVRC contesters from the January 2009 ARRL Kid's Day:

We spent Saturday putting together 3 electronic kits, a voice changer, a lie detector, and solar car.

The station picture was taken just after they talked to John in New Mexico and shared favorites - food, football teams, and other activities.

The three, my 3 oldest grandchildren, are Sam Rappaport (age 10), Alec Rappaport (age 8), and Hailey Rubin (age 6, although she kept on reminding everyone she would be 7 on January 12th).

They were very excited to learn that some of the components used in their kits are the same as the ones in a radio. Hailey asked to build a radio as her next kit. The boys are now quite good at reviewing the instructions, reading resistor color codes, inserting components in a PCB, and soldering (they like that the best). They wear protective eye gear when trimming excess wires after soldering. They also double check their work using a small magnifying glass and really know what a poor solder connection looks like. Taking their completed kits home to show their parents, siblings, and friends is a must. The pride of accomplishment is very strong.

The building sessions are kept short so they look forward to coming back into the workshop. The key to success is to let electronics take a back seat to our outdoor activities: hiking, playing basketball, and jumping on the trampoline.

Other indoor activities include watching movies, TV cartoons and football games, and most recently -- putting a heavy Bocce ball almost completely through the drywall in the rec. room.

We discuss the kits a week or two before they come over. Shortly after they arrive, they choose the one they want. But we don't start building them until much later, when, and if they ask. Doing it on their schedule works far better than trying to do it on mine.



#### New Op Arrives at NS3T

Theodore "Teddy" Dupree made his appearance on Monday afternoon, January 19. All is fine now with son and wife. He weighed in at 9 lbs 6 oz, which was the most of the three Dupree children, who have all been above 8 1/2 pounds. The reaction of the kids was muted. One didn't say a thing, while the other responded by puking wildly on Grandma's carpeting and floors. We assume the birth did not cause that :-)



Editor's Note: For those of you who don't believe Jamie takes contesting seriously, here's his CQ 160 CW contest post to the 3830 email reflector:

"With a 12 day old baby at the start of this contest, there was no way I was going to be able to do a big effort. So I used the new kid as a human alarm clock to make sure I made my way down into the shack after changing another diaper and helping out in the middle of the night as the XYL fed the screaming little guy.

I got on as much as I could both nights, but I had to sleep. I got up around 0530z on Sunday and decided to just S&P hard for as many 10-pointers as I could get from Europe and it paid off. Five new countries made their way into my log as well, so that was great."

#### UALR Callsign Lookup Search Plugin

The University of Arkansas at Little Rock provides an excellent lookup function for US Amateur Radio callsigns.

The now have a plug-in for those using Firefox as their web browser. To install it, try this first:

Click on the icon in the Firefox search toolbar. If you see an option to Add "UALR Call Sign Lookup", then you can select that to install.

If it doesn't work, here's the hard way:

Download the plugin: <u>ualrcall.xml</u>. The plugin needs to be installed in the /searchplugins/ directory of Firefox. Download the above file into the searchplugins directory and then restart Firefox.

· On Windows, this is usually "C:\Program Files\Mozilla\" and "C:\Program Files\Mozilla Firefox\" for Mozilla and Firefox users respectively. This path may vary on a per computer basis and doing a search on your computer for "Mozilla", "Firefox", "searchplugins" will help. Thanks to John Simpson KG4ZOW, <a href="http://kg4zow.us/qrz.shtml">http://kg4zow.us/qrz.shtml</a> for letting us know about this install method. John has a version on his website for QRZ.COM



What does your antenna system look like?

#### Who Says Contesting isn't fun?

ARRL 10m Contest Results from Will, AA4NC

I've always wanted to do this!:>)

QSOs: 1 Mults: 1 Total score: 4

This means I'm at least tied for the lowest score in the contest! At the time I was on, I actually only heard the one station (VO1MP) via Es.

*Editor's Note (with material from Wikipedia.com)*:

This may be unique to radio sporting, but not in the bicycle racing world. The **Lanterne Rouge** is the competitor in last place in a cycling race such as the Tour de France. The phrase comes from the French "Red Lantern" and refers to the red lantern hung on the caboose of a railway train, which conductors would look for in order to make sure none of the couplings had become.

In the Tour\_de\_France, the rider who finishes last, rather than dropping out along the way, is accorded a distinction. Riders may compete to come last rather than just near the back. Often the rider who comes last is remembered, while those a few places ahead are forgotten. The revenue the last rider will generate from later appearance fees can be greater than had he finished second to last, although this was more true when riders still made much of their income from post-Tour races.

#### Congratulations to K3RA

thanks to K3IXD

Rol Anders, K3RA, received the Northrop Grumman Corp Electronics System Sector Lifetime Achievement Award in Engineering and Technology.

Congratulations, Rol!

#### The Annual PVRC Question: "I hoped.. I've ..."

#### From Tom, N4NW:

"I hoped to get the SteppIR 4-el yagi I purchased at Dayton 2007 and delivered in November of 2007 installed for the 2008-9 contest season.

I've had the thing in the garage in its original box and due to one issue or another it still remains boxed up awaiting assembly. Once it is put together I have already had offers of assistance from PVRC Rappack members to get it on top of the tower.

#### From Rich, KE3Q:

"I hoped to have several towers and antennas up by this season, and resume some operating from home. (Last November I decided to take a break from operating SS from WP3R, but not take a break from SS of course -- but to operate from home for a while...)

Time is running short but I still have hopes of having some things up!

#### From K5KT:

"I am in the process of updating my station in terms of equipment and antenna..

I now am using a Yaesu FT-1000D with an Alpha 87A. Antennas on my UST HDX-589 include the KLM KT-34XA, 3el KLM 40M yagi, and Create 75/80M rotating dipole.

I am in the process of interfacing my new FLEX 5000A to my new 3Ghz 8core Mac Pro; next will be to add the ÅCOM 2000A. I will then compare the two stations.

I am also awaiting a new SteppIR DB-36 (scheduled for late Sep) to replace the above two KLM and CC WARC band dipole (only trapped ant on the tower) antennas on the 589. I will keep my W9INN 130' loaded dipole for 40/75/160.

A lot of work over the next 2 months or so awaits!

#### Green Stamp vs IRC chart

from Bill Heinzinger, W9OL

The URL to the online files and a link to the downloadable file:

http://www.qsl.net/w9ol/IRC\_Chart.htm http://www.qsl.net/w9ol/IRC\_Chart.xls

Please send new data to w9ol@comcast.net

Good DX and hope you get that QSL you need!

I've been remiss in writing, as the past few months have been a whirlwind of tower and antenna work, literally! Trips to MD, VA, NJ, NY, ME, and TX have occupied most of my time; I'm woefully behind servicing my local (NC and SC) clients for the most part. But, as I like to say, things could be worse...

Herewith, some toolbox tidbits, sparked by customer reactions to work-related problems.

I recently had to install eight small ropes or cords up a tall tower to hold some wire antennas near the top. It quickly became apparent that this was not only going to make climbing the tower itself difficult, but it was going to degenerate in to a tangled mess of these ropes without some sort of method of keeping them separated. The solution was to install (simply by taping them to the legs or Z-bracing) some short (1-ft long) pieces of half-inch PVC pipe to the tower, with the individual ropes threaded through them. This not only prevented the ropes from whipping wildly around in the wind, but prevented them from tangling with each other. Cheap and dirty, but a worthwhile addition to the project.

On the same job, the question arose (once again) of what to do about weather-proofing. And while I've written extensively about this, some repetition cannot or will not, hurt the topic. First, realize we're talking about WEATHER-proofing, and not WATER-proofing.

If the object in question is "hollow," then the air inside it can allow condensation to form, which is literally almost impossible to prevent. We can, however, limit the ingress of water from the outside.

Lots of times, folks will hand me a roll of Coax-Seal to use. I suggest alternatives. Or if they insist, I always cover the connector with Scotch 33 or 88, first! If you don't, the connector will be a messy, goo-covered object of scorn in short order.

The method I recommend and use is this: the first layer is a layer of Teflon tape. It's 12-mils thick (this is not simple Plumber's tape). Available from McMaster-Carr, although pricey, it works great. You can stretch it tightly to conform to any odd shape. This is followed by a wrap of Scotch 130C—what's called "linerless rubber." This is called "self amalgamating" tape in the industry, meaning it sticks only to itself. The secret to using it is to stretch it out as you go—elongating the tape by nearly 50%. While this may sound difficult, once you have the roll in your hand, you'll quickly get accustomed to the amount or feel needed to do this right. Overlap the 130C by half wraps as you go, keeping it as taut as possible. Cover the wraps with two layers of Scotch 88 (or 33, although I prefer the slightlythicker 88). If you're going to bury this, I like to coat the connector with a layer of ScotchKote. But ScotchKote will wear off in time, if exposed to UV, so its use may not be warranted.

Silicone sealers, aquarium glue, plastic tool handle cement, et cetera, are all things folks have thrown in Mother Nature's path, in order to mitigate water damage.

Each can make some contribution, someway, somehow, but the solution I've outlined has worked well for me. Indeed, I've taken apart 12-year-old connectors and found them looking as good as the day I installed them. So, until I discover something different (and better), I'm sticking with the process.

While on the subject of silicone sealers, I've taken the time and trouble to actually cover simply zinc-coated hardware with the stuff that releases acetic acid when curing (it's the non-electronic or non-foodstuffs sealer), and found that, yes, damage does occur UNDER the sealer. Acetic acid is mild, after all, but corrosion does take place. What's in *your* toolbox?

### Update on Toroid Use

from Jim, K9YC

I've posted a new applications note to my website that shows the performance of some of our group purchase parts when used to wind multi-turn chokes.

http://audiosystemsgroup.com/Fair-RiteMultiTurnData.pdf

Editor's Note: Jim recently published a paper comparing

### Words of Thanks (from October, 2008)

from Rich, K1HTV

I was pleasantly surprised to receive a large package from the ARRL on Wednesday. Inside were two plaques, Atlantic Division awards for K1HTV for Single Op Low Power high scores for both the CW & Phone 2007 ARRL Sweepstakes. Many thanks to the PVRC for sponsoring both of these handsome awards.

These will be the last contest awards for K1HTV operations in Maryland.

I will be retiring after 48+ years in broadcasting and 28+ years at Voice of America headquarters/studios in Washington.

My XYL Phyllis (K1WSN) and I will be moving in late November to Amissville, VA. The new QTH is the next town west of Warrenton, VA the home of son Andy (K1RA), daughter-in-law Amy (KZ1AMY and almost 4 year old granddaughter Anna.

Our Glenn Dale, MD home was put on the market and four days later we had a full price offer. We close on it next week.

With the help of PVRCers K8ISK, K1RA & N4SV, the K1HTV tower, the 16 antennas on or attached to it and coax cables were removed last Saturday. The 6M roof tower and antennas were also removed, so for now K1HTV is silent except for HT & mobile 2M FM. Sorry that I won't be able to participate at all in the upcoming November SS contests or CQWW tests at W3LPL. There are just too many packing, moving, unpacking and retirement activities going on.

Plans for the new K1HTV QTH are to erect 100' of Rohn 45 and start to install the monoband antennas next Spring. I hope to be back on the air with plenty of retirement time, as soon as I whittle down what I'm sure will be a substantial 'Honey Do' list from K1WSN.

Good luck to all PVRCers in the upcoming contests.

73 de Rich - K1HTV

#### Memories of Vic Clark, W4KFC

from the PVRC email reflector

#### - from Jack, W3TMZ

"One day several of us went over to Vic's to help him repair his 3 el 20 meter beam. After the antenna work was completed he had to check it to see if all was well.

He called CQ on CW and as I recall a Russian UH8 came back. The UH gave Vic a terrific report and immediately asked him to test his phone on 14250. This was a standard practice for many DX stations in those AM phone days. Vic told the UH that he had no phone but he UH kept coming back and requesting the QSY.

In those days Vic's VFO was pretty large (8" cube) which sat on foam rubber with a big National dial as I recall.

Meanwhile the UH does not want to let Vic off the hook. So Vic QSY's to 14250, holds the key down and bangs on the VFO. The UH comes back and said no copy QRM, try again. This time Vic really gave the VFO a series of bangs and turned over, the UH came and said solid copy OM pse QSL.

Now in those days if Vic had a mic it was not present and I would imagine that he did not even consider building an AM modulator.

We all had a hell of laugh about this event.

I wish I could recall who was there but would imagine the year to be in the mid 50's.

#### - from Art, K3KU

"In sweepstakes, Vic sent his CQ with an "autokeyer". This was made up of a pie tin with tabs bent up that operated a micro switch in parallel with the key line that was turned on and old victrola table."

Some time back around the mid-1960's there was a little photo of Vic and his CQ wheel in the SS report in QST. Vic was sitting in the operating chair, face toward the camera, smiling benevolently. As I recall, the caption said "Vic says the wheel has a 'come hither' sound that his own fist lacks."

When I was getting started in SS (CW, of course), Vic would always be rag chewing with VE8BB (on 15??) just before the contest started. When the clock ticked over, they would exchange QSO #1's, and off we'd go. For many years my greatest accomplishment in SS was being BB's #2, the year I operated at W3AZD's house in Four Corners (Silver Spring).

I was in a pile up at W4BVV in a DX SSB contest one year (I was not so wise back then). Half the world is braying away at the DX, when suddenly, like the parting of the waters, everybody stands by, and the only sound is Vic dumping in his call. Absolutely broadcast quality audio.

Vic was really a super guy. I asked him one time "How do you work a VE4 in SS (CW)?" His reply: "I just point my beam that way and call CQ until one answers." (Super guy, but competitive. I'm not sure he would have given me even that much advice if I had been any real competition.)

#### - from Bob, W3YY

"Vic's QTH (which will always be the KFC QTH, regardless of who lives there now) is about 2 miles north of mine, so we are geographically pretty close.

I have lots of good memories of Vic, but the one that stands out was when I applied for my 5BDXCC certificate in 1981. I was anxiously awaiting my plaque in the mail when I got a call from Vic. He told me to come up to his house.

We sat down in his workshop out-building and he presented me with my 5BDXCC plaque. He had taken the time and effort to bring it down from Newington, so he could personally present it to me.

That plaque means the world to me and, to this day, I am amazed that Vic made the special effort to make the presentation of the plaque such a special moment for me.

But should I really be surprised? We all know what gentleman this man was.

#### - from Gene, W3ZZ

"As someone once said, "Vic Clark was the best operator to ever walk this planet". Certainly his ability to hear weak signals was legendary.

I remember one time in the 60's visiting his house after he, Lenny Chertok, Gordon Marshall W6RR, and I had a pleasant dinner in DC. Gordon loved to listen to Europeans on 40 meters from the East coast - they never got that loud even on his full sized 3 el 40 from southern CA. He was tuning around with Vic's 75A2 and long wire when he came upon a particularly loud Eastern European.

The other three of us were sitting in an adjoining room discussing something or another when we heard Gordon say, "Listen to that YU!" I could hear something coming out of Gordon's earphones. But Vic looked up and said, "Do you hear the weak UG6 behind him?"

We immediately rushed into the other room. Gordon unplugged the earphones and we listened for the UG6 on the speaker. Nothing! Then Vic said, "High pitched - about 1000 cycles" Then I heard it but without the hint I might have missed it. And Vic heard it through Gordon's phones in the next room while he was talking to us!

Vic also kept after me to become an ARRL life member. After much badgering I gave in and paid up. As he said it was one of best investments I ever made.

#### - from Bob, W4RQ (ex- K4UVT)

"Back in the very early '60s, when I was about 16, my first forays into the contest world were in those ARRL CD parties for ARRL appointees. I was a member of the Virginia (DX) Century Club then, but I don't think we had a contest club as such in Norfolk VA back then.

Well, as it turned out, I won one particular CD Party very easily for Virginia. (I was an ORS, an "Official Relay Station") I was told later that the ONLY reason I won it was that Vic had company that weekend and was not able to get into the contest. I do remember my few QSO's with Vic were very enjoyable.

from Don, K4ZA

"Memory isn't as bad as I thought -- I was pretty sure the picture of Vic's CQ wheel appeared in 1963-65 timeframe QST..

I found it supporting the 65 SS. Normally, SS write-ups appeared in the May issue of QST. But W1YYM (nee W1YL) must have worked extra hard, because the summary and write-up appears in APRIL 66 issue, p. 74.

The caption reads, in part:

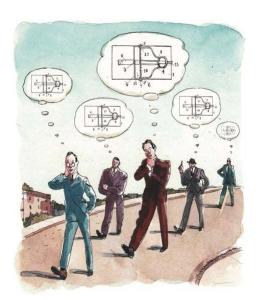
"Vic says this must be granddaddy of them all after 17 SS contests. It is constructed from an old aluminum recording disc by making radial cuts with tin snips and bending down the segments that form the spaces, and driven by a 4 rpm clock-type motor with a keying speed of about 20 wpm. Vic feels that the mechanical CQ seems to possess a "come hither" quality his own fist lacks. Conclusion: It's amazing how much one can accomplish during a 15-second interval while the wheel is drumming up business! "

Construction is funky but neat. Braided wire, even fahnstock clips! The soapbox comments also contain a blurb from K3KMO (nee W1AB) describing his experiments with what we know today as an SO2R setup, K1ANV's (nee W3ZZ) lament of catching himself calling CQ DX & even CQ FD during the contest, while operating from Lenny's QTH...

Truly a heydey of PVRC in many ways...

# The Annals of Innovation Who Says Big Ideas Are Rare?

from the New Yorker



The history of science is full of ideas that several people had at the same time.

#### The WX3B Pile Up Generator

A thread from the PVRC Reflector

Rowland, K4XD, wrote:

"I heard WX3B running EU like there was a contest last weekend - but there wasn't one! I thought, "that sounds like fun" and then wondered, "how do you get all those people to do contest style quick Q's when there isn't a contest going on?" So I asked Jim how he does it, and got this response:

The answer is: It depends on my mode of the pileup. On SSB, I'll rag chew with a few guys just to get the pileup built. Once I hear the pileup at critical mass - and this can happen REAL fast when the bands are good, I make an announcement about making fast contacts to maximize the number of QSOs, and I just start running.

On CW, it's trickier, because if you make ONE SLOW QSO, you're doomed.

I have a very short CQ, and when the first guy answers, I send <Call> 5nn.

Most of the time folks understand what I'm trying to do. If the guy gives me his name, etc, I do just send "TU WX3B" and once the pileup is built, folks figure it out. The trick is to get the pileup built fast, so everybody knows what's going on.

It also helps that folks have been putting up with my pileup style QSO for about 8 years now. It's my favorite thing to do, and it can be even more fun when there isn't a contest, because hardly anybody calls CQ and runs guys anymore.

The dynamics of a pileup are often interesting, because the bigger the pileup, the faster you have to work it, and the faster you work it, the more guys that jump in just to make that contact. On SSB I can run at about 300/hour for sustained periods, and that's not something I can do in a contest (not enough callers unless you're V26B).

Similar thing on CW. Establish your rhythm, don't feel bad about saying TU K4XD, and just let the pile build.

73, Jim, WX3B

#### Your 2009 PVRC Officers and Board

#### Officers:

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#### WHERE CAN YOU FIND PVRC MEMBERS?

#### The PVRC NW Region: Bud W3LL

Meetings are held on the third Tuesday of each month at the City Buffet, 1306 W. Patrick Street, Frederick, MD. (301) 360-9666. It's in a small shopping center. Most arrive about 6 PM for dinner and informal discussions. The meeting begins at 7:00 PM.

>From W. Patrick Street, turn up McCain Dr. (the Mountain View Diner is on the corner), then turn right into the shopping center, then turn left and search for a parking place. The City Buffet is tucked back in the left corner of the shopping center behind the Mountain View Diner. You can't see the City Buffet from W. Patrick Street.

#### The Annapolis Crew: Bob W9GE

Meetings are held on the 4th Wednesday of each month at West End Grill in Annapolis. We gather at about 5:30 PM and order dinner about 6. We break up usually before 8 PM. E-Mail <u>W9GE</u> to be put on the e-mail reminder list.

#### PVRCNC-East: Will, AA4NC.

Meets on the first Thursday of each month. Details are always available on the web site: <a href="http://www.pvrcnc.org">http://www.pvrcnc.org</a>

#### PVRC-NC/West: Tom N4IOZ

"The Winston-Salem Courteous Operators Club" (W4WS) meets on the fourth Monday of each month at 7:00 PM in the "Pure Chrome" establishment, 505 Deacon Blvd. Winston-Salem, NC 27105. It's now a biker bar (we came with the building), so feel free to roar in on your Harley. Info at <a href="http://www.w4ws.org">http://www.w4ws.org</a>

#### Gaithersburg Area: Jeff K30Q

Several of us get together, much like the downtown lunch group, about every 4 to 6 weeks and visit various restaurants in the Gaithersburg area.

#### Central Virginia Contest Club: Ed NW4V

(updated 5/2008)

Meets the first Tuesday of the month at St. Martins Church, 9000 St. Martin Lane, Richmond VA, (between W. Broad St. and N. Parham Road). Our meeting begins at 7PM.

#### Over the Hill Bunch Bill W3AZ

The group meets for lunch at noon alternately in Maryland at the College PARK Holiday Hotel Route 1 and the Beltway or in Virginia at the Parkview Marriot near route 50 and the Beltway. Meetings generally are held on the last Wednesday of the month and are subject to change. Meetings are announced by E-Mail.

All PVRC members, non-members interested in membership and guests are welcome. For information contact <u>Roger Stephens, K5VRX</u>, 703-658-3991 for Virginia meetings; or <u>Bill Leavitt, W3AZ</u> for Maryland meetings.

#### **Downtown Lunch Group**

Meets on the 3<sup>rd</sup> Wednesday or Thursday of the month in the downtown area of Washington, DC. Locations occasionally change, but are always Metro accessible. Details are sent out on the PVRC reflector. Feel free to contact <a href="Eric W3DQ">Eric W3DQ</a> or <a href="Brian WV4V">Brian WV4V</a> for details and directions.

If you have a group that meets regularly or occasionally, please send details and contact information to <a href="W3DQ">W3DQ</a> for inclusion in the Newsletter!

#### **PVRC Spotting Network**

WR3L: telnet://dxc.wr3l.net
W3LPL: telnet://dxc.w3lpl.net
W4ML: telnet://dxc.w4ml.net
K3SKE: telnet://dxc.k3ske.net
N3ME: telnet://dxc/n3me.net
WC3J: telnet://dxc.wc4j.net
N2QT telnet://n2qt.no-ip.com

NE3H Harrisburg PA 145.630

N2QT Lynchburg, VA 144.97, 446.075

Information regarding the PVRC reflector can be found on the PVRC website: http://pvrc.org/pvrcfag.htm

Note that this is simply the REFLECTOR FAQ pull down under main-page **REFERENCE** 

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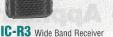
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