



# Potomac Valley Radio Club Newsletter

May 2005

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and [www.pvrcnc.org](http://www.pvrcnc.org)

**Don't Miss The Contest Seminar DVD Story– Starts on Page 1**

**PVRC Reunion Rules are on Page 3**

## Editor's Note

By [Pete Smith N4ZR](#)

In past years, the May issue has been a special Reunion-only issue, USPS-mailed to all members for whom we have addresses, and including a checklist of members. This year, the club has decided to do it differently. This issue includes the announcement and rules for the Reunion, but the Reunion checklist will be made available for download on the club web site in one of several different formats. Then, during the Newsletter's hiatus in July and August, our Treasurer Dave, WR3L, plans to mail a packet of useful club information to each member, together with the annual appeal for donations to the treasury.

Remember, in the Newsletter, [blue](#) text means hyperlinks. Click for more content or to e-mail authors.

## From the President

By [Jack Hammett, K4VV](#)

### The Contest Seminar and DVD Project

The PVRC has a long history of providing help and assistance for our members and to other hams, since our founding in 1947. Help has taken the form of hardware (towers or antennas), advice, and beyond. *Once a member, always a member* is a long-standing tradition.

Consistent with our legacy and tradition, we decided to sponsor a two-day **Contest Seminar** in February 2005. Although designed primarily for members, we welcomed others to attend. Of the ten non-members participating, all five of those inside our circle joined PVRC.

Preparing for the Seminar, we asked Don Daso, K4ZA, who was also one of the presenters, (and who works in film/video) to videotape the event. Having professional video would make it possible to produce an edited version tape or DVD document of the Seminar, giving us options.

In late March and early April I engaged the team of PVRC officers (K4VV, WX3B, W3DQ and WR3L) and the leadership team for the Seminar (N3OC, N3RR, WX3B) in a dialogue about the desirability and feasibility of producing a Seminar DVD. Feedback from members including inputs from several meetings I attended in March and April were all encouraging to produce the DVD. The one reservation from the leadership team was whether we could have the DVD product ready to roll out in time for Dayton. The clear conclusion was that if release at Dayton was doable and reasonably affordable, we should proceed. We sought volunteers with profes-

sional talents who could work pro-bono and make the costs of a DVD production possible for PVRC. Many of us who were willing to contribute serious time and effort to this undertaking were not very interested if the team was not committed in a roll out by Dayton, as waiting a year for the "face-to-face" release was a distant and less worthy objective. Meanwhile, feedback on the Contest Seminar continued to roll in from our members by email and in meetings. Our members expressed very positive and enthusiastic appreciation for the people who contributed their time and skills to make the Seminar such a success, as well as general enthusiasm for the DVD set.

Henry, W2DZO, who teaches video technology and practice in Winston-Salem, volunteered to perform the critical action to produce the edited digital master of the 6-DVD set and coordinate and oversee the production of the DVDs by a known local company.

The day-to-day leadership team shaped up as Jack-K4VV, Jim-WX3B, Dave-WR3L, Bill-N3RR, Don-K4ZA, and Henry-W2DZO. Don and Henry have the video experience and Bill the marketing experience to make this a professional undertaking. Dave brings the financial oversight, Jim is strong in marketing and sales, and Jack adds some management experience. We decided to continue our work to prepare to produce the DVDs while we gathered more information before committing funds. We had to work together to get to a marketing and sales plan.

K4ZA drove halfway to Winston-Salem to deliver his DV Deck to W2DZO, so Henry could digitize Don's source tapes into his computer editing system. Henry began editing each presentation into a coherent whole, adding titles and the PowerPoint slides used by each speaker. The next step after that would be creating a 6-DVD set, structured around relevant topics, encompassing the entire 12-hour session. On April 21, Henry created a video clip of a few minutes of the W3LPL presentation to email to the team. The team viewed the clip and agreed that we had very high quality material.

To address the marketing plan, five of us met on April 25 for three hours, N3RR, WX3B, WR3L, and K4VV in Bill's office, with K4ZA on the phone, to generate the input for the marketing brochure. At the end of that meeting the team agreed that we had sufficient progress to be confident of completing the DVDs and marketing support to roll out by Dayton, and we committed to that objective and moved ahead to implement. Jack reserved a PVRC booth for Dayton for the DVD marketing and sales. Bill finished the draft of the marketing brochure, incorporated improvements, and coordinated with the team for a go ahead, which I approved on April 28. Bill submitted for commercial printing of 6000 brochures.

Bill will travel on May 18 to set up the booth on Thursday, and will be our leader in the booth for marketing and sales. Jim, WX3B will organize additional support in manning the booth, and planning coverage from PVRC in the vicinity of the Antenna and Contest Forums and the Contest Dinner on Saturday, and in hospitality suites. All of these events are in the Crown Plaza Hotel. Henry will complete the production of the first 100 DVD sets with contract support in Winston-Salem and deliver them to Dayton on May 19.

Your leadership team is pushing hard to achieve the DVD release at Dayton because we are convinced that the resource will be very valuable to our members and a serious contribution to the contesting community. W2DZO, N3RR, K4ZA, and K4VV all reviewed the first two DVDs on 1 May and rated the quality of the video and audio to be excellent. Feedback from Henry remains very promising that the quality of the entire video is high. We are on schedule!

The six-DVD set will sell at Dayton for \$49.95, and for \$59.95 afterwards. PVRC members may purchase for \$39.95. Our costs to produce the first 100 DVDs and to market at Dayton are about \$5,000. Six of the leaders and faculty of the Seminar project have volunteered to contribute \$1,500 to the DVD effort, so our current Treasury balance of \$4,500 will grow to \$6,000, leaving about \$1,000 after DVD production and marketing are paid (and before we receive any receipts from sales or new contributions from our annual mailing). With some sales and the traditional generous contributions from our members, we are confident that our treasury will remain strong.

It is important to recognize that our members have contributed all of their labor and almost all of their travel costs as volunteers. We are spending money primarily for DVD production and packaging, marketing brochures and banners, and the Dayton booth.

Congratulations to all of you who bring your enthusiasm to the contesting team of PVRC

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## **PVRC Contest and Event Calendar**

Courtesy of the [WA7BNM Contest Calendar](#)

**Boldface indicates PVRC Events — all dates and times are Zulu**

Mid-Atlantic QSO Party, 1600Z May 14 to 2400Z May 15, with a break 0400 - 1100Z Sunday

**CQ WW WPX Contest, CW 0000Z, May 28 to 2359Z, May 29**

West Virginia QSO Party 1600Z, Jun 18 to 0200Z, Jun 19

**W3LPL Open House, Saturday, June 18, noon**

ARRL Field Day 1800Z, Jun 25 to 2100Z, Jun 26

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## **REUNION ON-THE-AIR**

### **2005 Rules**

1. Eligibility: All members of PVRC worldwide (Once a member, always a member!)
2. Object: To contact as many other PVRC members around the world as possible, using 7 bands as follows: CW: 80, 40, 20, 15, 10 meters and SSB:20, 10 meters .
3. Date: Always the first weekend in June. The 2005 reunion will be June 4 and 5
4. Suggested Frequencies: CW: 3547, 7047, 14047, 21047, & 28047 kHz. Phone: 14247 (14250 alternate) & 28447 kHz.
5. Three contest periods: June 4: 1400Z - 1800Z, June 5: 0000Z - 0500Z and 2200Z - 0300Z
6. Contest exchange: Serial number, your call, QTH, your call when first joining PVRC, and year joined PVRC. Example: NR73 W6XYZ CA W3XYZ 60
7. Valid contact: Completed two-way QSOs on any of the 7 bands listed above . No crossband or cross-mode QSOs.
8. Scoring: Two points for each completed QSO. Total multiplier is the sum of all states, DC, Canadian provinces, and DXCC countries worked. (AK and HI count as a state or a country, not both.) Each multiplier may be counted once, not once per band. Maritime mobile contacts count only for QSO points; not a multiplier. If the club call W3GRF is active and sends a state of "PVRC" then "PVRC" is an additional multiplier.
10. Reunion call: CQ PVRC

Please send your final score (Call, Q's, Mult, Score) within 30 days to the Secretary, Anthony Brooks 891 Webster Rd., Glade Hill VA 24092-3721, or to [wm3t@wm3t.com](mailto:wm3t@wm3t.com) (e-mail preferred).

No log need be submitted. A check sheet is available in several different formats on the PVRC web site. [Click here.](#)

Some logging programs may support the Reunion. For example, [N1MM Logger's](#) generic DX contest will permit sending and recording all the needed information, but you will need to count your own multipliers. I think

Writelog has a module for the Reunion, and understand that Eric, W3DQ has offered to make it available on request.

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## The Toolbox

By Don Daso, K4ZA

### Drilling holes—in the shop, in the field, in the right places—and other tools

I'm often surprised to see the reactions to some of my tools and techniques. It's not so much that I've got some secrets or there's something special about my work, it's merely that I've taken the time (over the years) to ask lots of questions and have remembered or written down what I've learned. And I figured out, while still a boy, that asking older folks how to do things would invariably lead to my learning something NEW; and besides such folks had probably "been there, done that," far too many times for me to discount what they had to say!



Figure 1

So it wasn't much of a surprise when a customer acted shocked when I hauled out the little alignment tool for the hand drill. "You're really going to bother with that?" he wanted to know. "Oh yeah. You want the holes in the boom to be plumb, don't you?" My drilling tool came from Rockler. (<http://www.rockler.com>) - see Figure 1.

In the shop, of course, drilling a straight hole is pretty easy—you simply use the drill press. Folks ask me all the time what type drill press they should buy, from brands right on up to size. Having beaten up on Sears in the past, I never fail to get asked about Craftsman drill presses. Yes, they're good tools. Yes, they have problems. The light (to illuminate the work) will usually heat fuse itself into the socket, for instance—a true teeth-gritting, mumbling-under-your-breath situation to fix.

Try to get a variable speed drill press. Try to get a floor model. These offer the most "solutions" to drilling problems. And of course, there are the various "other uses" you can find for the press. For instance, it's easily converted into a sander/polisher. I've even used mine as a milling machine, even though the manual cautions you against excessive side loads. But then why offer a milling table as an accessory? Obviously, in moderation, I believe I'll be okay using it this way.

I've seen some very nice Delta machines; their reconditioned models carry reasonable price tags. Northern Tools also offers some very attractive models.

Speed is the single most important factor when drilling. And slow speeds are more useful than high, for the simple reason that we do not want to "work harden" what we're trying to drill through, which excessive speed (and lack of lubrication) will do.

So, while I spent a few minutes taking the portable drill out of my toolbox, then setting it up, the end result was worth it. Perfectly aligned, straight holes, exactly where we wanted them. The client was also surprised to see the Starrett automatic center punch. Basically, this spring-loaded tool (I admit, it's one of my favorite tools) will free up one hand, & make more accurate holes than the old style hammer and punch combination. You can dial in the impact force by turning the head (for hard or soft metals), and the points can be reground or replaced if needed. I've never done more than touch up the tip with some wet/dry sandpaper, personally, in over 20 years of intermittent use. Of course, the client was surprised to learn this little gadget cost nearly \$40.

Measurement is another critical issue with me. Again, I learned very early the wisdom of "measure twice, cut once," when it came to any drilling, sawing, or shop operations. So I've tried to follow that dictum all my life. For the home workshop, Stanley makes some excellent tapes. I'm especially fond of the FAT MAX series of

tapes, which are 1-inch or more in width and self-supporting out to several feet, a big plus when working alone.

I started a list of measuring tools I own, but it got out of hand quickly. Here are some of the more popular and useful ones. Tapes, in various sizes—up to 300-foot fiberglass. Mitutoyo vernier calipers—for real shop precision in metal-working. Starrett right angle squares—perfect for aligning saw blades, drills, and ensuring that cuts and angle are correct (in woodworking parlance, known as a “try square”). Starrett spring dividers—used to transfer and layout parts/designs, layout circles/arcs, or divide a line. Starrett thread gauge—while I like to think I can recognize most common threads, I’m not above using this gauge to check or confirm something. Laser level—in a word, wow! I never thought I’d like them, but after using one once, I was hooked. There are now a wide variety of laser tools from which to choose (check [Harbor Freight](#) for some Chinese bargains). The self-leveling rotary laser level is extremely handy in tower layout. Amazingly, the red dot is still visible in full summer sunlight here in the Carolinas. No talk of levels or tower layout would be complete without mention of the transit, sometimes called a theodolite. There simply is no better way to ensure horizontal and vertical alignment. I use a Berger 200-series transit level.

Part of writing this column is sharing idea and solutions. Just as my client was surprised to see me carting around a portable drill press attachment, I am surprised to read or hear comments like, “Do you really believe we should have all the tools you have?” The simple answer is, no, of course not. But knowing something about such tools, how they work and how each will allow you to solve a problem, is the driving force behind writing *The Toolbox* each month. Borrowing, renting, or otherwise sharing stuff is part of what makes ham radio the great hobby that it is—something hams are known for and have always done. What’s in **your** toolbox?

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**From Eric Rosenberg, W3DQ, PVRC Vice President**

### **PVRC 2005-2006 Speaker Lineup**

With the success of past speakers (ON4UN, WX0B, N6BT, W4PA) and the PVRC Contest Seminar, we've been working on a presenting a series of speaker prominent in areas of interest to PVRC members: Contesting, DXing, Station Building, DXpeditions, etc.

We had hoped to begin with the first program this Spring, but the coordination of schedules, travel and venues has overwhelmed us. While our hope is to have at least one featured presentation outside the regional meeting structure in the fall and spring, respectively, our goal is for two per season.

So far, we've been in touch with and had positive responses from OH2BH, ON4UN, K3NA and N5IA (the XZ0N DXpedition). We hope to contact others -- if there is someone you'd like to hear or you know would be a good speaker, please let us know. Email your requests and comments to Eric W3DQ at [w3dq@arrl.net](mailto:w3dq@arrl.net).

Our trusty newsletter editor, N4ZR, recently posted a request for information on your summer projects for the Newsletter. I'd like all those who have sent him information also to post your plans on the club reflector, and add one additional piece of information -- DO YOU NEED HELP? With this information in hand, the PVRC membership can really add to the success of the club. Projects are better planned, run, and even completed (!) on time with the help and expertise from contemporaries. The PVRC membership has a lot to offer -- and we all benefit! If you don't ask for help.....

**Don't Forget the CQWW WPX CW Contest  
Begins Friday evening, May 27  
Be Radio-active!**

## “How I Plan to Spend My Summer Vacation” — PVRC Members’ Plans for Station Improvements This Summer, or Recent Additions

Compiled by the Editor

**Ken Claerbout, K4ZW** — My current QTH is pretty much tapped out but I do have one project I'm vowing to complete this year. Several years ago I put up two inverted L's for 160 with 1/8 wave spacing. I don't have room between my two towers for 1/4 wave. I cut phasing lines from 75 ohm CATV coax. It loads fine but has absolutely no F/B and no forward gain as far as I can tell. The elements go vertical for about 80' and then kind of slope back to the ground in no particular direction. The array points about 100 degrees so 1/8 spacing should also produce a slightly broader pattern which I'll need if I'm going to realize any gain towards Europe.

This summer I want to redo the elements using T's and rework the phasing lines. I'm hoping the T's will be more symmetrical when comparing the two elements and hopefully reduce the high angle stuff. It shouldn't be a big deal but I've had it on my to-do list for about 3 years now.

**Bud Governale, W3LL**—Installing a 90' AN Wireless free standing tower topped with a SteppIR MonstIR 40M-6M, C3I 12 el 2M and 24 el 432Mhz beams turned with an Alfa Spid rotator. Two 150' runs of 4" PVC trenched to the house. Hoffman box at base of tower with ICE coax and control line suppressors. Hoffman box at the house with SPG. An 80M 4-SQ will go around the tower. Tower shunt feed for 160M.

**Bruce Plantin, W3BP** — 145 ft. rotating AB105, with four OWA yagis each on own 48 ft booms — 4L40, 6L20, 6L15, 7L10. Used to be K4JA's multiplier stack.

Planned erection date: as soon as the weather cooperates. It has been ready to go up since Christmas but the ground has been too soft to bring in a crane. [See photos](#) in the Extended Content area on the web site

**Bob Finger, W9GE** — W9GE has an OptiBeam OB9-2 on order. This antenna is a common boom (4 elements on 17 and 5 elements on 12) yagi. When it arrives from Jay at Array Solutions I'll get K4ZA to stop by when he is in the area and put it on the back tower below the 40 meter Moxon. In order to do this Don first has to install a 24 foot chrome-moly mast on top of the tower, which will raise the 40 beam by another 12 or so feet. The OB9-2 will then reside where the Moxon is now, as shown in the [photo](#). By the way this tower also holds up my 80 meter vertical wire 4square. Ultimately this tower will grow to 130 feet (if I can convince the county) and hold a stacked pair of 40's at 60 and 125 feet. Like Fred K3ZO, 40 is without question my favorite band.

Hopefully I will also be able to follow the directive from the contesting seminar to "cover all the angles" and convert my current high band tower to a pair of OptiBeam OB16-3's, stacked at 40 and 80 feet. First I will need to add a K0XG rotating tower system, so the top 50 feet turns, then replace the current C3E on a Tic Ring rotator at 40 feet with a second OB16-3 and phase it with the existing OB16-3 at 80 feet. A 2 element 30 meter yagi will top the tower at 90 feet if the checkbook allows. If not, then maybe next year. The C3E will then go on a 56 foot HBDX laying in the barn awaiting its return to service.

Ultimately this tower will hold 3 of the OptiBeams at 40, 80 and 125 feet, but that is for the next sunspot cycle peak.

NN3W piloted the current W9GE to a first place showing for USA Low Power (unofficial) in the 2005 ARRL DX SSB, so maybe I should leave well enough alone, but I have kinda fallen in love with the WARC bands, and I am after all first a DX chaser.

**Steve Hanlon, KB3KAQ**—completed rebuilding the 80m dipole - moved it to a better/higher location on the tree - the signal has improved greatly. putting up the 2m beam and running low loss coax to it and the 6m beam. putting in a single point ground and adding polyphasers for all the coax runs. thinking about swapping beams - have a 6l tribander to replace the A3 - might be too much for my tower - might look into a 60' tower.

**Chet Moore, N6ZO**—just got the fiberglass spreaders for the W2UP rotatable pennant receiving antenna for 160. No room at this QTH for beverages or high 160 dipoles.

**Bill O'Mara, W4RM**—At W4RM we are planning the following enhancements this summer:

1. We will be adding the second 160M vertical in the triangular array (phased verticals to Europe)
2. Building three 36 ft OWA 6-element 15M beams for a 6/6/6 on 15M.
3. If time permits we hope to complete the new 15M tower but, we need to remove some large trees to make room for this tower, so I'm not sure this is going to happen.
4. Updating all FT-1000MP's with roofing filters, noise blanker and key click modifications..
5. Designing and building 40 ft long ground structure to hold all of the VHF antennas for mountain top opera-

**Karl Renz, K4YT**—Well, I bought K4JA's 110 rotating tower a few months ago. Now I have to struggle with the Fairfax county guys who don't even know what Ham Radio is? I found this out when I went down to ask what they wanted from me for a permit. My wife suggested we buy a new QTH with at least 2 acres vice the 1 acre we now own. This is another full time project looking for another possible QTH that would accommodate our personal needs as well as Ham Radio.

**Dick Hayman, WN3R**—After the county workers came by to do some tree work behind my Rockville residence and had the nerve to ask me to remove all of my wire antennas from their trees, it was time to consider an new way to get back into ham radio.

In anticipation of retiring and having too much time on my hands, I decided that before I died I was going to build ham heaven with good golf courses close by. With the full support of my wife and family, they agreed that after nearly 50 years in the hobby I deserved to build the station of my dreams.

Back in November 2003 we purchased 10 acres just north on Gambrill State Park in Frederick. My shack design morphed into a three car garage with an apartment above it. My XYL removed the kitchen portion of the room above the garage and added a nice size house for all of us. I still get the room above the garage.

The foundation walls are now in place, delivery is expected in September. Norm, W4NRS's company is setting the tower in place next month with antennas scheduled to be installed in June.

We are building a mountain retreat for our children and grandchildren to enjoy with us. Hopefully, it will become a gathering house for family and friends to visit often. Advice and suggestions are always welcomed. It surely won't be the perfect station, but I'll have lots of fun building it.

**Peter Alterman, W2CDO**—My 40 meter half square failed after 3 years, so I had to rebuild it and reinstall it this past weekend. Since we're about to reopen our family swimming pool, and since the lawn maintenance guys are about due to start work again, I went out and buried six radials for my 80 meter inverted L and re-routed two that were strung across the pool deck (winter installation, hi). I plan to raise the 40 meter half square another ten feet and raise the 20 meter half square another 15 feet. I also plan to do some general maintenance on my TA-33jr, which gets hoisted up on a mast for the fall contests (no towers here). Biggest plans, though, are to raise the 6 meter Moxon, the 13 element 3 meter yagi and the 22 element 432 yagi on to the chimney mount. It won't be pretty but it will get me on VHF again after many long years.

**Jim Nitzberg, WX3B** — Here's what's happening at WX3B this summer:

Roll Up about 3,500 feet of ground radials from the 160 inverted L radial field and put away until next season. Dig 3 trenches and bury all coax and rotor control cables so I can cut the lawn easier.

Add 5 feet to the 15 meter Rocket Launcher, allowing 5 more vertical feet for the 75m vertical & 160 inverted L (completed 04/09/05). Repair broken turnbuckle on 15 meter rocket launcher. SURPRISE! Nothing wrong except the way the wire was fed through the device. N3SB and N3ST figured this out, put the wire through

again and all is well.

Put up K9AY 4-direction RX loop for 80 and 160. Meet the farmer/neighbor and talk about Beverage season next year. Remove the RFI from next-door neighbor's Stereo A/V system (hoping some speaker wire wrapped around Ferrite Core solves problem). Track down Steady-State and impulse type QRN at WX3B. Suspect nearby power line is the source of all trouble.

**Jim Wise, W4PRO**—My new antenna system is up and running only three years after dismantling my contest station in Hampton and moving over here to Smithfield, Virginia. I have downsized to one rotating tower, 120 ft of Rohn 45G with a 2 element Cushcraft on top and three tribanders at 35, 70 and 105 ft. I have a half-square on 80 meters and plan to load the tower or a guy wire for 160. The two top tribanders are TH7's and the lower is a TA-34. On of those TH-7's was my main performer at Hampton and the TA-34 was my Caribbean mult. antenna. I have never worked the WARC bands. I will be looking for another used TH-7, but have had enough antenna work for the time being.

Timing was of the essence. N6ZO put up the first beam just in time for me to work the VU4 Dxpedition for an all-time new one, and only a day before they had to QRT. We had a 71 degree day in February, which is quite unusual. All of the beams were installed, even though it was dark before we finished. I had surgery to replace my left knee the following Monday but managed to get everything hooked up by Sunday evening, including the circuitry to rotate the tower from the shack. I am pleased with the performance, especially the 40 meter beam. I have yet to evaluate the tribanders as stacks, but individually, they all work fine.

**Eric Rosenberg, W3DQ**—I'd love to accomplish any of the following this summer:

- turn my 160 inverted-L into a 160/80 inverted-L
- fix the poorly (or not working at all) 160 receive antennas
- put up a better antenna for 40 meters
- re-do the station layout, based on what I learned at the PVRC Contest Seminar
- cure the telephone RFI I'm plagued with

... Again, the key is to accomplish ANY of the above!

**Joe Sheinman, W2BHK**—Major project in the making. Planning the installation of 75 feet of Rohn 45 and a new 8 El. LP. The hole is dug and now trying to come up with the money for the 4.5 yards of concrete. Hope to pour before end of month and plan for a tower raising party for sometime in May. Can use all the help I can get to install tower and build beam. I have a climber but, will need ground help as well as lots of fingers to build the beam, run coax, control cables for rotor and remote antenna switch.

With my handicap (Arthritic right knee and trouble with my feet), I can do only so much. Anybody available, please contact me at 540-576-1776. QTH is in Penhook, VA., near Rocky Mount and south of Lynchburg.

**Pete Smith, N4ZR**—More to see if I can do it than for any other reason, I'm building a full-fledged SO2R switching system so that I can use any antenna with either rig. The vertical on the garage roof can then come down, which my wife will like. Switching will be at the base of my tower, with two runs of hardline and two more of control cable to the shack.

I'm anticipating real problems with inter-radio isolation, even with the bandpass filters, and will probably need some stubs in addition, because all of the antennas are on or around the same tower. I will use two band decoders, each controlled through an LPT port by N1MM Logger, plan two bandpass filters, and intend to split my tribander stack when I need to operate two of the high bands at once.

I also hope to finish my 2-element K9AY endfire array. The model looks promising, roughly comparable to a 1.5 wavelength Beverage, but we'll see.

**Jack Hammett, K4VV**—My major contesting effort for the summer is to complete the first phase on my station, tower and antenna project. The primary goal is to achieve a competitive Multi-two station that is flexible enough for convenient SO or SO2R and casual Multi-Multi operations. The goal includes achieving some diverse antenna systems and full automation that will add to the fun factor.

My objectives this year are to complete the construction of a new Radio Cabin about 600 feet uphill from the house, installation of four towers and twenty-one antennas, and integration of grounding and cable systems, band- tower- and stack-switching systems, and a network linking multiple computers in two radio rooms. The cabin needs finishing with operating tables for six positions, installation of carpet, fan, and blind, so soon I will be able to start to set up radios, amplifiers, computers, and cables. The four towers are self supporting; three of them are monopoles, two of which are rotating Berthas

The towers are being installed on an East-West line along the top of the property along the Catoclin Ridgeline. Tower 1 is a 105' Bertha with 2-stacks on 10m, 15m, and 20m from Force 12. Tower 2 is a heavy duty 120' Bertha that will support one three-stack of 6 element OWAs on 15, two-stacks of 6 element OWAs on 20m and 7 element OWAs on 10m, and a single Force 12 240N. Tower 3 is a 100' Union Metal tower supporting a 2 element 40m Optibeam (Moxon) with rotator and fixed OWAs for 10m, 15m, and 20m beaming SE. Tower 4 is a 120' Valmont (PiRod) with a 2-stack of 4-element 40 m K3LR antennas, and a Force 12 80m dipole.

The OWAs and the K3LR 40m antennas have 48' booms, and are the ones I purchased from Paul, K4JA. The foundations for the towers were completed last Fall. I have a welder working to complete attaching the steel plates that support antennas fixed to the towers. Soon I will have help to do a sand blasting of the Tower 1 Bertha that needs cold galvanizing with ZRC. I will be doing a ZRC treatment of all four towers before they go up. I am aiming for June or July to have a crane here to raise the towers.

Trenches for cables from the Cabin to the four towers and to my house are already dug, and 1100' of 1-5/8" and 7/8" Hardline are already deployed. Connectors need to be installed and control cables planned and deployed before closing up the trenches.

Installing the antennas, radios, amplifiers, network, computers, rotators, grounding, switching and accessories will be a time-consuming challenge. I would welcome any of our members who may be interested in helping with remaining projects and operating the completed station to contact me. Future projects will include upgrades such as Beverages and vertical arrays for 80m and 160m, and perhaps additional towers to improve patterns or to add more fixed beaming coverage.

**Tom McAlee, N1IN**—I have (well, had!) a pair of full-size verticals for 80m, phased using a Comtek box. Apparently 3 guy levels wasn't enough for the floppy tubing and/or they weren't far enough out. One broke right in half during 70mph winds 2 (or 3?) weekends ago; the other suffered significant damage.

So, they have been removed and I'm going for round #3 with a new design. The new verticals will telescope to 1.25" at the top instead of 0.75", have 5 guy levels instead of 3 (lots of phillystran!), and the guys will be out 43' instead of 28'.

I'm in the middle of preparing the new tubing now and erecting the bottom halves of the verticals. The 55' bucket truck will be here Tuesday to help put the top halves on.

**Paul Roche, K3STX**—After about 20 years off the air (from 1981 to about 2002) I got back on from my Potomac, MD house. I have a small back yard of about 70 x 30 feet, so even running radials for my 80 meter wire vertical is an interesting challenge. I have a 40 meter wire vertical suspended from a tree branch over my house, elevated at 20 feet with 8 radials; it is OK. I am even "borrowing" one tree limb from a kind neighbor to hold one end of my 100 foot ladder-line fed dipole up 60 feet. It is my "good" antenna. Rig is a Kenwood TS-850S (that I got from W8ZA who got it from W3LPL) and I have tossed my paper/pencil logging from the 80s and now use N1MM and love it. Even with such a small set-up I still have plenty of fun in contests, try to get

on most CW contests at least a little (when I'm in town). I operate almost exclusively CW. I have most fun in domestic contests like NAQP and Sprints (the dipoles/verticals with 100 watts don't really cut it in DX contests). I have a single Beverage to Europe, (120 feet long) along my property line fence and it really does work on 80 and 40! Joining PVRC has introduced me to lots of nice guys, provided lots of advice and ideas for antennas, and made me feel like a (small) part of a real team. [Photo: Paul Roche, K3STX, with his oldest daughter Nikki, age 8 during Kids Day. I'm working on getting her a ticket so I can say the tower is for HER! (What mother would not want to make her daughter happy!)]

**Nate Moreschi, N4YDU**—I'll be moving back to my old qth, after a one-year absence, and I will be starting from scratch with the new station. I'll be putting up a short tower, in addition to various beams on the roof and wires for the lower frequencies. I may install a four square for 40M. I'm looking forward to the rebuilding process.

## **Ammunition for Little Pistols**

By **Bill Axelrod K3WA**

Shut down your computers quick - -. I'm baaack!

Sometimes life has a way of reaching out and giving a person a BIG dope slap in the back of the head and saying "GOTCHA." That happened early last fall to this little pistol. A combination of work, family events, work, health issues, and work kept me off the air for the entire contest season. And, wow, losing a whole contest season sure does make even the Littlest Pistol re-evaluate life. So, this month, I have none of my usual pithy and to-the-point advice for my fellow little pistols this month. I hope you all did "real little pistol good" in the contest season.

I'll fill up the rest of the dead air with a short story about what I am going to do on my summer vacation.

As I said, losing a whole contest season sure does make even the Littlest Pistol re-evaluate life. Me too!

So, with the help of fellow PVRCer Jim Talens, N3JT, I bought 37 acres of land on a mountain in Mineral County, West Virginia. Actually, just as soon as I get this out in the mail I'll drive out that way to close on the deal, but close enough.

Place has lots of trees, an unobstructed view to the West, North and East, and a cabin. Well, actually a three bedroom house with full basement, but cabin just sounds better. Oh, and an authentic working outhouse behind the workshop for serious thinking and antenna engineering. I'll be putting up a tower this summer and play with wire antennas to get going on 160. Hope to throw up a quick wire antenna to get on for the CW WPX in May. C U there.

Fair warning – stand by for more articles unless the PVRC readership goes down and I get kicked off the island.

73... Bill K3WA

## **Simple Protection for the Fledgling SO2R Station**

By **Pete Smith, N4ZR**

I recently decided to embark on a fairly ambitious station upgrade, to allow SO2R operation through sharing the antennas in my one-tower station between two radios. Knowing full well my tendency toward dumb mistakes, my biggest concern was that I would do some harm to my radios in the process of figuring out the necessary isolation measures (bandpass filters and/or stubs).

After reading George Cutsogeorge's excellent book, *Managing Interstation Interference*, available from [Inrad](#) I concluded that I was right to be concerned. Since all of my transmitting antennas are either on or supported by a single tower, I figured that I could easily exceed his recommended maximum of .05 watts power from one rig presented to the receiver of the other, particularly during setup and testing. This number is based on the use of .1 watt resistors in typical front-end attenuators, and is probably nicely conservative, but still...

After some thought, consultations on the Internet, and some exchanges with George, who was VERY helpful, I came up with a simple circuit for a radio protector that should be virtually “me-proof.” The circuit, in Figure 1 below, is mostly self-explanatory. SW1 selects either an external receiving antenna or the receive antenna from the transceiver. The light bulb serves as a visual indicator of RF, will reach full brilliance well below the danger level, and will blow like a fuse if the level is much higher. The diode stack is designed to conduct at a safe level as well, and may be removed from the circuit by SW2 to avoid any possible intermodulation problems, once the SO2R setup is debugged. I built mine in plastic Radio Shack enclosures, with big paddle-type DPDT toggle switches as SW1. In this receiving application, any losses due to mismatches should be negligible.

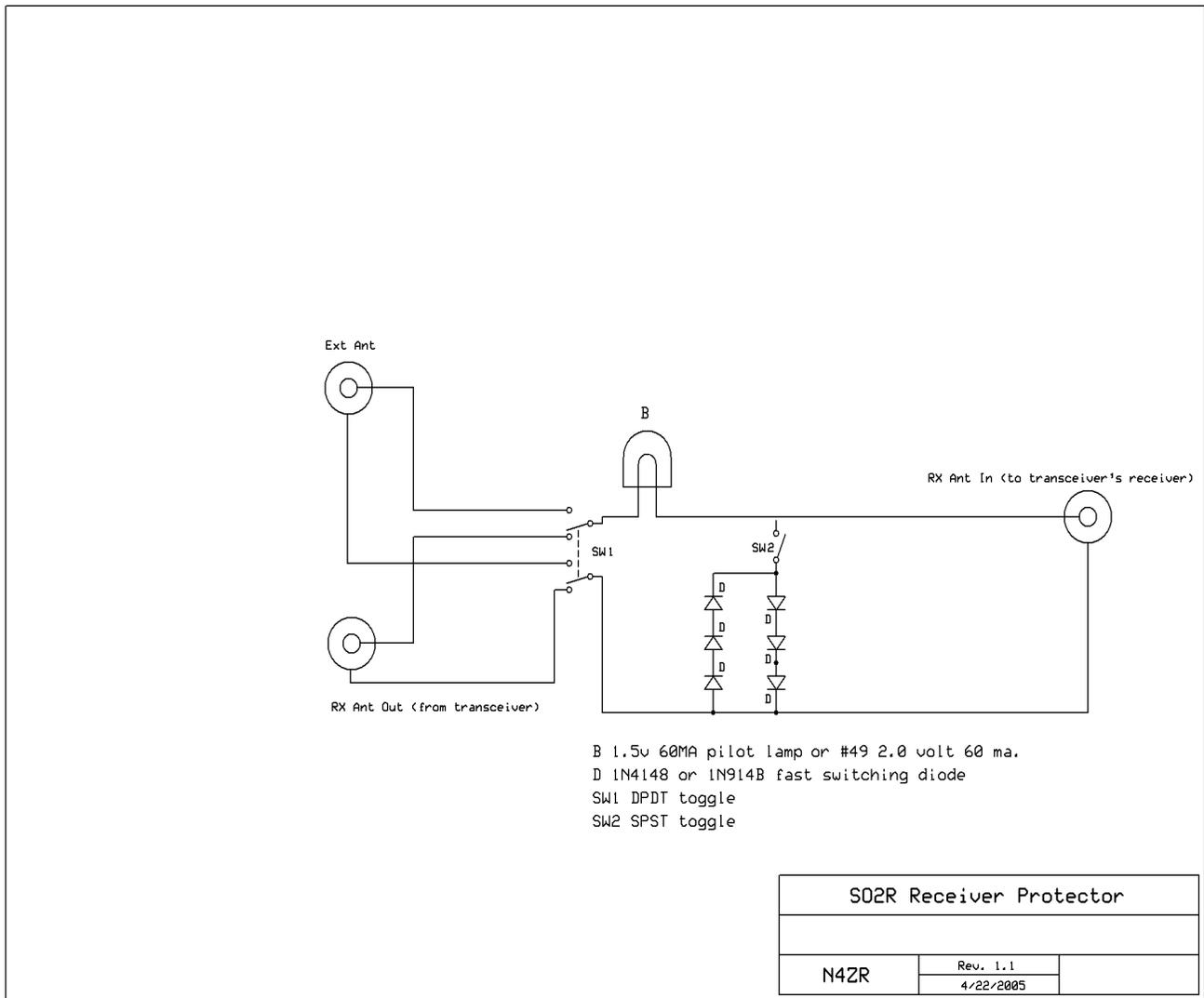


Figure 1

### Contest Seminar Powerpoint Presentations on the Web

The Powerpoint presentations from the PVRC Contest Seminar are now available on the PVRC web site. The may be viewed by clicking [here](#), or downloaded in Powerpoint format by clicking [here](#). The interactive view- ing may be a bit slow if you are using a dial-up connection.

## **Around the Club**

### **Meeting Minutes from the Regions**

On Wednesday, March 30 the Virginia contingent of the PVRC **Over the Hill Gang** gathered at the Marriott Park Bistro in Falls Church for lunch and fellowship. The two hour gathering included Ben Shaver- AA4XU, Bob Peterson-W3YY, Floyd Martin-W4RW, Dick Maylott-W2YE, Fred Laun-K3ZO, Gene Zimmerman-W3ZZ, Bill Leavitt-W3AZ, George Sinclair-K6ETM and Roger Stephens-K5VRX. Numerous stories were told, some of which perhaps had been told before but all seemed to be "new ones" to the oldtimers!

The **Southwest Virginia** Chapter PVRC held its March meeting Thursday night the 31st. at the Golden Corral restaurant in Roanoke. Attending were the following members; Anthony - WM3T, Joe - W2BHK, Buddy - W4YE and his wife Sarah, Tom - NI1N , and David - N4JED and his son Robert. Good food and conversation were enjoyed by all, with several making multiple trips thru the buffet line.

The previous week's WPX scores and conditions were discussed. WM3T and KC9LC- Randy operated from NI1N's station, racking up probably one of the highest score yet from SW Virginia. Not bad, Tom, for a CW op. Murphy tried playing games with the group off-and-on but the team was able to persevere. Watch for even bigger scores in the future. NI1N recently acquired one of K1GG's amps so listen for even bigger signals.

Time had come to elect a new coordinator and secretary for the SW VA Chapter. After the dust had settled from everyone running, straws were counted and KC9LC - Randy was elected chapter coordinator with WM3T - Anthony secretary. Congrats to both for being willing to take on the responsibilities. An April meeting will be scheduled shortly, again at the Golden Corral in Roanoke. See everyone there.

The **Annapolis Crew** met at Griffins (West St. at Route 2) at 5:30 PM. The meeting was organized by Ike, W3IKE, who will ask for a quieter room for the April meeting. Attendees were W3HVQ, John Sherrick, K3RWR, Rob Renoud, K3PRN, Don Ruokonen, K3PU, Brian Gaffney, W9GE, Bob Finger, W3IKE, Ike Lawton, K3UT, George Moore, KB3KAQ, Steve Hanlon, W2GPS, Rick Hambly, WB4LNM, John Klingelhoefter, K3DI, Dick Wilder. 73, Dick Wilder, K3DI Crew Chairman

**PVRCNC WEST** Meeting minutes, March 28, Cobalt's Eats and Drinks, Winston-Salem, NC  
Attendees: KG4NEP, KF4PLQ, KG4ECI, N0KTY, W4RXG, KC4WSK, WS4NC, WB4MSG, W2DZO; Non-members: Ed KU4BP, Jim W4UX, David N5WNB and his YL

Orders were placed, pitchers were filled, let the games begin. KU4BP- Ed, a YCCC transplant and all around helper/EZNEC dude said he is just pretending to be here. If the YCCC ever found out... W4UX- Jim attended his first meeting- an avid CW op, he is recently back the hobby after taking 20 years off. First licensed in 1965, Jim was a traffic handler and enjoyed the Sweepstakes event in the late 60's /early 70's.

WB4MSG- Gene helped out with the NCQP, and has had not much time since, but reports that wife Cathy is cancer free and did great with the surgery! W2DZO- still antenna less at the new house, but hoping to get wires up in the next week (ed. note- I got a dipole up and had qsos with WX3B and KB3KAQ--- but wire has since fallen and its time to REALLY put it up) Looking forward to Dayton. Active in NCQP.

N5WNB- David helped out with ARRL DX and is starting a project to convert his shed into the shack---This is his first official meeting, but he did operate WW with us, so next meeting we'll make him official. N0KTY- John made 100 q's in WPX and is looking forward to growing Rohn 25 in his yard this summer. W4RXG- Melissa is starting a new job with her old employer, and is looking forward to datin' (or Dayton?)

KF4PLQ- Woody has a new 857 and is installing it. He sold an Alinco and a Willis Jeep to get it. The wife is happy on both counts. WS4NC- Don is making plans to get his Rohn 45 up and has stated that Robert will not have broadband service for the shack until Don's antennas are up. N4IOZ- active in NCQP, tired of school.

KG4NEP- Operated ARRL DX, and has a potential #1 4-land score for 80 SB effort in WPX. The list of re-

pairs has been made for W4WS this summer.

Robert and Don went to the PVRC Contest College and came back brimming with info and plans. They had a blast, and spoke/met/drank/ate with lots of great guys- and great contesters. Don said he has plenty of pictures of the event which he can share. Both Robert and Don then highlighted their experiences at the college. Both were blown away by all the talks, with the W3LPL, N3OC, and K3ZO discussions causing Robert to make a long wish list for W4WS. Don had the CD of the presentations out on the laptop for all to check out. Thanks to both of them for making the effort to go up there, even though they had to drive another 35 miles on Friday night to get a room. Robert also reported that "The Gas" (our Alpha 374) went belly up during the WPX. The waiter then arrived with more wings and beer, and hence the demise of the formal portion of the meeting at around 8:15.

Respectfully submitted- Henry Heidtmann, W2DZO, Secretary pro tem (while Robert talked about college stuff with everyone in the room...)

The **PVRCNC-East** meeting at Golden Corral in Cary on April 7 looked promising with about 8 members gathered at the door well before the usual start. Within 15 minutes the crowd had swelled to 10 who bravely tried to fill the private dining room which GC had, with high hopes, reserved for us once more. On the bright side, attendance was 100% better than last month. Those admitting to being present were: Brian, K3KO; Bill, K4CIA; Bob, K4HA; Jim, K4QPL; Jerry, KI4CCJ; Bert, N4CW; Jay, NT4D; Ron, N4XD; Jeff, NX9T and Keith, W4KAZ. The chairman, K2AV sent apologies as he had to attend a funeral. Apologies also from K4TMC.

Bob, K4HA was asked to take minutes, but having been "flamed" for his efforts last month, he declined, pleading his 5th Amendment rights against self-incrimination. Nothing further was heard from him. Bill, K4CIA, reported that his radio fried his amp, or vice-versa and he is working on both, as well as some DX, presumably with other gear. Jeff, NX9T, was awarded "sado-masochist of the month" for his part time performance in WPX-SSB---QRP. Ron, N4XD, has done some outstanding scrounging locating both Rohn 45 and LMR400 at prices (or so he says) that made everyone's jaw drop.

Bert, N4CW, who has about as many houses as Donald Trump, has been spending a lot of time on DIY projects, this time in Raleigh. He did take time to order parts for the antenna switch featured in April, QST. Jay, NT4D, reported that after months of pleading in vain for the return of his gin pole, no questions asked, it finally turned up on his doorstep one night. His daughter said the mysterious caller had a strong resemblance to AD4L.

Jerry, KI4CCJ, has a new tower in the works. After suffering at Shelby from the con of Rohn 20 mixed in with a stack of Rohn 25, (sound familiar, Pete??) he's looking for some replacement sections of the real thing. Caveat Emptor. Count those angle braces on each section, guys! Keith, W4KAZ, has been having fun in recent contests like WPX and ARRL DX SSB. Esthetics and towers apparently don't mix at his QTH and for now he's resigned to being a tree-hugger. KAZ, save your pennies and maybe get one of those pseudo-tree cell towers!

Jim, K4QPL, has also been QRL with only a part time appearance in WPX-SSB. Last, but not least, Brian, K3KO made his first meeting for a while. He has also started on the QST antenna switch project. Says the run on relays has made it necessary to call the company and talk sweetly to the YL on the order desk to avoid being told they are sold out. He also tried to explain the mathematical probabilities of the minimum number of QSO's to achieve a certain score in WPX, which I understand by S&P/Spotting enabled him to come close to this objective. As the reporter was busy S&P'ing the fried okra which got mixed in with the minuscule fried shrimp on his plate, the fine points of this contesting diversion were lost to posterity.

Bail was revoked and an APB issued for Nate, N4YDU, who a few hours earlier put a message on the reflector that he would appear. He will be sentenced at the next meeting. After member reports, a lively discussion of Logbook Of the World commenced. As most of the participants seemed to keep shifting sides and emphatically making the same points made by their opponents a few minutes earlier, further reporting seemed superfluous,

and after a while everyone inconclusively wandered away.

Irreverently submitted,  
Jim, K4QPL

A hearty and hungry, albeit small, group of PVRC members gathered at Anita's Restaurant in Vienna, VA for the monthly **Central** meeting. Attending were K4VV, NN3W, W3HVQ, ND3A, K5RJ, W2CDO, and W3DQ. Between quaffing refreshing beverages and eating chips, Rich, NN3W, re-capped his (actually, Verizon's) adventures with high-voltage electricity at his QTH in Vienna. Rich brought samples of the burned wires (wow!) from the house, and talked about the road ahead -- what radios he's thinking of buying and when.

Rob, ND3A, didn't stay long after eating, but did mention that he has finished his MBA degree (congrats, Rob!). John, W3HVQ, has retired, and will be moving to West Virginia before too long. Look out all those other PVRCers who've retired to WVA! Pete, W2CDO, lamented the loss of some of his wire antennas, and will be working to put them back before the fall contest season starts. Eric, W3DQ, hopes to be able to fix his low band receive antennas and re-configure the station layout based on the presentations given at the PVRC Contest Seminar. Ray, K5RJ, took it all in and didn't say much!

Jack, K4VV, touched on his schedule for installing his antenna system at his new QTH. Jack -- along with everyone else at the table -- talked about the PVRC Contest Seminar. We all agreed that it was a great event, with excellent presenters and material that all PVRCers and the contest community in general benefited from. We talked about next steps... how we sustain interest for future PVRC Contest Seminars, what subjects are covered and in how much detail, and what we do with the professionally recorded material (we collectively tipped our glasses to Don Daso, K4ZA, for his work).

A good time was had by all! The next Central meeting will be on Monday, May 9, at Topolino's Restaurant in Camp Hills, MD. See you there!

-- submitted by Eric Rosenberg, W3DQ

On Wednesday, April 20th, six PVRC members braved downtown DC's traffic to meet for lunch at Reeve's Restaurant for our monthly **Downtown** gathering. Attending were K3ZJ, K4RT, NN3W, K9GY, KI3O and W3DQ.

K3ZJ's Orion and add-on filters have arrived but are still in the box, as baseball is upon us and any free seems to be devoted to that \*hobby\*. Nevertheless, Dave thinking about putting up a tribander on a 50 ft tower at his home QTH -- after the baseball season ends!

K4RT is working with the KP1-5 Project, the folks behind H.R. 1183, which would allow amateur radio operation from Navassa (KP1) and Desecheo (KP5) Islands. Brad's two petitions to operate from the islands were denied. The group will have a booth at Dayton. In the meantime, check out their website at [www.kp1-5.com](http://www.kp1-5.com).

NN3W's home re-construction project is moving along. Rich hopes to back in the house in 2 months. In the meantime, he's off to China in early May, and is looking for a station to operate in the WAE DX CW contest (August 13-14). K9GY reported that he's been on reserve duty at the Pentagon since February, 2003 (!) and has some time to go before he's able to return home to the midwest. Eric will be going to Aruba for the WAE DX CW contest, and will be attending Dayton again this year. Bob, KI3O, will be at Dayton, too, and asked about the mechanics of the WAE contest, to which K9GY and NN3W tried gamely to explain..

W3DQ will also be at Dayton, and hopes to have time this summer to re-arrange his station both inside and out, in time for the IARU contest in July. The next PVRC Downtown gathering is tentatively scheduled for Wednesday, June 8th, again at Reeve's Restaurant (13th and G Street, one block from the Metro Center station).

## **K4RB Now 4S7EXG**

Thanks **W3DQ**

PVRC member Bob Blumberg, K4RB, and wife were transferred to from Egypt to Sri Lanka in October (Bob's wife works for USAID). Bob just received his Sri Lankan license: 4S7EXG. You may remember him as VU2NBT YB0ASI, TZ6DX, and most recently as SU9US.

For the time being, his antenna is a HF2V, but hopes to put more up in the not-to-distant future. He says, "The only restriction has been time! No antennas restrictions where we are (a house). Have turned radio on a few times - bands sound useless right now. "

## **Navassa/Desecheo Reactivation Project**

By **Michael Thomas, NA5U**

I am writing to ask for your assistance in an important matter affecting the pastime of DXing. It has been over 10 years since Navassa Island (KP1) and Desecheo Island (KP5) have been on the air. This is because the islands are national wildlife refuges under the control of the U.S. Fish and Wildlife Service (FWS), which banned Amateur Radio from the islands in the early 1990s.

Despite many requests for permits to visit the islands for Amateur Radio operations, the FWS has stated unequivocally that Amateur Radio is permanently banned from the islands. The FWS asserts that Desecheo is closed for safety reasons because of unexploded bombs, illegal aliens and drug smugglers on the island; Navassa is closed to protect sensitive habitat. Yet, the review of over a thousand pages of internal FWS records and reports conducted by Brad Farrell, K4RT reveals that these claims are baseless.

FWS records reveal that it considers Navassa a healthy and highly pristine habitat. Yet, the agency turns a blind eye to the many Haitian fishermen who live there and start fires while refusing to issue permits to American Amateur Radio operators for lawful use of the islands. In fact, the FWS recently considered encouraging more illegal alien fishermen to go to Navassa under a federal permit program!

Since 1994, the FWS has relied on this charade to deny applications for special use permits for Amateur Radio on Desecheo or Navassa no fewer than 16 times. To top it off, the FWS has wholly misrepresented the facts to several Congressmen who have inquired on behalf of Amateur Radio operators whose requests for permits for Desecheo and Navassa were turned down, and certainly did not disclose to these Congressmen the information they have kept hidden in their internal reports and records.

This is alarming and just plain wrong, and it is why I am asking for your help. The KP1-5 Project <<http://www.kp1-5.com/>> was launched to right these wrongs and we need your help. As a result of the efforts of hams across the nation, H.R. 1183 has been introduced in Congress. H.R. 1183 would require the FWS to open Desecheo and Navassa to limited public use. It is critical that legislators hear from their constituents telling them to support and cosponsor H.R. 1183. The KP1-5 Team met in Washington, DC on April 8th to present information to Congressional staff. We had a successful presentation. We learned while we were there that this is truly a 'grass-roots' effort. So, it is up to the DX community to make this happen. Here is how your organization can help:

1. At your next meeting, or as appropriate for your group, please review the content of this letter.
2. Encourage your membership to individually contact their Representatives asking them to support and cosponsor H.R. 1183. The details of on how to do this can be found at [www.kp1-5.com](http://www.kp1-5.com).
3. Utilize your e-mail reflectors to get the word out to DXers.
4. As the leadership of your organization, write each Representative whose constituents are members of your club, urging them to support H.R. 1183.
5. Please consider a donation of any amount to the KP1-5 Project. The Lone Star DX Association has agreed to oversee this fund. Details on donations can be found on the website <<http://www.kp1-5.com/>> . Any donation

will offset direct costs associated with moving this effort forward. None of the considerable personal expenses of the KP1-5 Team will be reimbursed by these donations. Please do not hesitate to contact me if you have any questions.

73 es DX,  
 Michael L. Thomas, NA5U  
 KP1-5 Project Director

**PVRC 5M Award Scores**  
 By **Anthony Brooks, WM3T**  
 PVRC Secretary

**ARRL DX SSB**

Call	Class	Status	Band	QSO's	Mults	Score
W3LPL	MM			5038	582	8,787,618
J68RI	MM			6259	303	5,689,431
W4MYA	MM			2423	468	3,383,640
K4ZW	SOHP			2627	398	3,136,638
K3ZO	SOHP			1866	371	2,076,858
N8II	SOHP			1775	330	1,728,540
K3DI	M2			1397	391	1,636,335
NN3W	SOLP	@W9GE		1328	361	1,438,224
W4WS	MS			1178	349	1,231,272
K2PLF	SOA			1214	326	1,187,292
N4RV	SOA			909	348	948,996
N3FX	SOHP			752	261	588,816
K3DNE	SOA			737	246	542,430
WX3B	MM			630	226	501,942
K1RH	SOA			615	272	501,840
K2UOP	SOHP			615	265	488,925
W4JVN	SOA			623	246	459,774
W4XDX	SOLP Op	W0YR		1001	148	442,668
W4YE	SOHP			587	239	420,879
W3LL	SOLP			544	250	408,000
K4VV	SOA			472	235	332,760
W3BP	SOA			448	245	329,280
N3HBX	SOHP	20		1082	101	326,937
N4TL	SOHP			527	207	326,646
N4MM	SOHP			443	228	303,012
K3SV	SOA			406	216	263,088
W3HVQ	SOA			410	199	243,576
W3GG	SOA			445	177	236,295
KI3O	SOLP			399	192	229,824
WK4Y	SOA			310	237	220,410
NIIN	SOHP	20		635	112	213,360
KU4FP	SOLP			285	156	133,380
W4KAZ	SOLP			289	145	125,715
W3OU	SOA			265	150	119,250
K4TX	SOHP			262	146	114,756
K3TW	SOQRP			255	147	112,455
WA3G	SOHP			235	117	82,485
WR3L	SOLP	15		257	94	75,660
N4JED	SOLP			216	106	68,688
NW4V	SOLP			193	117	67,743
K4QPL	SOHP			196	113	66,444

Call	Class	Status	Band	QSO's	Mults	Score
KB3KAQ	SOA			203	109	66,054
W3DF	SOHP			182	115	62,790
W4ZYT	SOHP			200	98	58,800
N3HUV	SOHP			91	39	45,780
WD4LBR	SOHP					45,450
W3YY	SOHP	40		199	75	44,775
W4RQ	SOLP			138	106	43,884
N3FNE	SOLP			137	93	38,223
K4WNW	SOHP					32,922
WA4BKW	SOLP			133	80	31,920
K4WES	SOLP			121	83	30,129
W2BZR	SOA			121	81	29,403
K1SE	SOLP	15		140	70	28,770
K4MIL	SOLP			118	80	28,320
NY3A	SOHP			118	73	25,842
KC9LC	SOLP			108	73	23,652
K4HA	SOLP	20		124	53	19,716
AE4EC	SOLP			94	69	19,458
K4FTO	SOLP			76	56	12,768
K3STX	SOLP			39	22	2,574

Total Logs: 61  
 Total Club Score: 40,283,112  
 2004 Results:

	Logs	Score
CW	59	107,093,067
SSB	70	55,604,947
Total	129	162,698,014

**Multi Op Operators**

W4WS KG4NEP, W2DZO, N5WNB, KU4BP  
 K3DI K3DI, W3ICM, W3UL, W4EE  
 WX3B WX3B, NY3A, AK3Z, N3MNM  
 W4MYA N3UA, N4EHJ, W4DR, W4HZ, W4MYA, W8HC, WA8WV  
 J68RI W4NF, W4RM, K5OF, K4RG, KE4BUS, K0RI, WZ8P, J69??  
 W3LPL W3LPL, K1HTV, K1RZ, W2GG, K3EST, A13M, K3MM, NK3R, K3RA, W3UR, WR3Z, W3ZZ, KD4D, K9GY

**CQ 160 SSB**

Call	Class	Status	QSO's	Mults	Score
W4MYA	SOHP		1142	59 27	239,596
N3HBX	SOHP		935	57 19	165,984
N4XD	M1		664	57 21	124,956*
W4IM	M1		725	57 26	124,465
NX9T	SOHP		678	59 10	104,259
WK4Y	M1		652	55 15	102,830*
K3DI	M1		606	56 16	100,728
N8II	SOHP		654	67	100,567

Call	Class	Status	QSO's	Mults	Score
W3SO	M1		552	53 12	81,510
N4RV	M1		422	56 18	77,626*
W3DQ	SOHP		542	54 6	73,440
K8OQL	SOHP		502	52 10	71,114
W3LL	SOLP		523	52 5	65,436
N4DWK	SOHP		457	52 8	63,628
K3ZO	SOHP		389	44 11	52,041
K3KO	M1		300	62	44,082*

Call	Class	Status	QSO's	Mults	Score	Call	Class	Status	QSO's	Mults	Score
N4MM	SOLP		306	49 10	41,536	N4TL	SOHP		25	18	1,062
N3UM	SOHP		320	44 11	41,195	N4JED	SOLP		5	3	30
W9GE	SOA		338		41,010						
K2PLF	SOLP		232	49 11	33,540	Total	Logs:		38		
KG4NEP	SOLP		275	45 8	32,436	Total	Club		Score:	1,933,247	
K2UOP	SOHP		213	40 11	26,316	2004	Results:				
K3SWZ	SOLP		174	41 9	20,600	Logs	Score				
W4YE	SOLP		190	44	19,052	CW	52		6,946,081		
KU4FP	SOHP		141	46	15,870	SSB	45		2,182,519		
W2YE	SOHP		129	33 9	13,680	Total	97		9,128,600		
W2GG	SOLP		106	33	11,802						
K3DNE	SOLP		127	33 3	10,728						
K1KO	SOHP		99	40	10,000						
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K3TW	SOQRP		50	19 1	2,360	W4IM	W4IM, NR4M, K4ZW				
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**PVRC REFERENCE PAGE Please send corrections to the editor. May 2005**

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**PVRC Reflector** administered by N4AF <<http://mailman.qth.net/mailman/listinfo/pvrc>>, postings to <[pvrc@mailman.qth.net](mailto:pvrc@mailman.qth.net)> (Members only, if your call sign is not part of your email address, send an email to [n4af@qsl.net](mailto:n4af@qsl.net) to subscribe.)

**PVRC Dues** PVRC has no annual dues. Donations are gratefully accepted by the Treasurer, Dave Baugher WR3L, 615 Rockaway Beach Ave., Baltimore MD 21221. Please make your checks payable to PVRC.

**Autocall Column Editor** is K3DI 410-757-6706

**PVDXSN Packet Network**

W3LPL	Glenwood MD	145.590, 441.250	w3lpl.net	W3IP	Crownsville MD	145.570	
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Most of the system is sponsored by the Potomac Valley DX Spotting Network. Nodes with \* are independently funded by each SYSOP., The W4ML node is funded by CVCC.

**PVRC Meetings**

**ANNAPOLIS:** Dick Wilder, K3DI 410-757-6706

**BWI:** Weekly breakfast Wed at 7:00 AM at Basil's Deli Port on Elkrdige Landing Rd 1/4 mile South of Winterson Road 410-850-4333. Director: Ike Lawton, W3IKE, 410-263-2830. Sec: Howard Leake, W6AXX, 410-465-7008, [w6axx1@starpower.net](mailto:w6axx1@starpower.net)

**CENTRAL VA:** Pres: Ed Moore - NW4V - [nw4v@comcast.net](mailto:nw4v@comcast.net), Secy: Marie Long - K4KML - [long2624@netzero.net](mailto:long2624@netzero.net), Treas: Robert (Bob) Ladd - NK4H - [rladd@comcast.net](mailto:rladd@comcast.net). Meetings are held on the second Tuesday of the month at 7:00 PM at the Henrico Doctor's Hospital, 7700 Paraham Rd., Richmond, VA. To the right of the main entrance is a second entrance. Go through that door, turn left through that door and the cafeteria is the first room on the right. There will be some who meet at Nick's Roman Terrace, Westlands Shopping Center, West Broad Street starting at 5:50 PM for dinner before the meeting. Talk-in available on 145.430

**CENTRAL:** The Central Meeting is always the second Monday (except June, July, and August) at 7:30 pm. The central meeting generally alternates between MD and VA locations. A pre-meeting dinner is usually held between 5:00 and 6:30 pm. Check via 147.000- repeater. VA LOCATION: The Patrick Henry (Public) Library, Route 123, Vienna, VA. MD LOCATION: Church of the Nativity (Episcopal), Route 5, Temple Hills, MD. Pre-MD meeting dinner at Topoleno's Restaurant about 6:00 or 6:30 pm.

**EASTERN-SHORE (DEL-MAR-VA):** Dallas Carter, W3PP 302-875-0550 [ludal@dmv.com](mailto:ludal@dmv.com)

**LAUREL:** Bill Smith, N3XL ([n3xl@arrl.net](mailto:n3xl@arrl.net)) 301-935-4873 Laurel Region meets concurrently with the Laurel Amateur Radio Club at the first LARC meeting of each quarter.

**NORTH CAROLINA -- EAST:** Chair: Guy Olinger, K2AV, [k2av@contesting.com](mailto:k2av@contesting.com); Sec: Jim Price WW4M. POC's are K2AV and WW4M (h:919-362-4635, w:919-460-2991). PVRC/NC meets at 6 pm the first Thurs of each month, plus an additional meeting in April at the Raleigh Hamfest. For details see <http://pvrcnc.org>

**NORTH CAROLINA -- WEST (TRIAD):** Meets the 4th Monday of the month at 7:00 PM at Cobal's Elemental Eats and Drinks on Deacon Blvd. in Winston Salem. Ragchew at 6:30. Directions are available upon request. The chairman for the new PVRC/NC West chapter is Henry Heidtmann W2DZO, [henry@summitschool.com](mailto:henry@summitschool.com) and the secretary is Robert Whitaker KG4NEP, [kg4nep@yahoo.com](mailto:kg4nep@yahoo.com).

**NORTHEAST:** WR3L Dave Baugher 410-DX1-WR3L [dave@wr3l.net](mailto:dave@wr3l.net)

**NORTHWEST:** Chair: Bud Governale, W3LL, 410-666-9189. [W3LL@arrl.net](mailto:W3LL@arrl.net). Meets monthly the 3rd Tuesday. Informal dinner about 6pm; meeting at 7pm at the City Buffet, 1306 W Partick St, Frederick, MD 301-360-9666. Rear of shopping center, behind Mountain View Diner.

**OCOQUAN:** Jack O'Mara W4NF, H:703-791-3302 W:703-739-7636 [w4nf@comcast.net](mailto:w4nf@comcast.net) and Cliff Deel W4CE, [w4ce@aol.com](mailto:w4ce@aol.com) 703-491-0841

**OVER-THE-HILL LUNCH BUNCH (VA DC MD):** Meetings are held monthly at two locations: Falls Church, VA (Parkview Marriot) and Beltsville, MD. Meetings are announced by E-mail. All members, their guests and non-members interested in membership are welcome. For information contact Roger Stephens K5VRX, [rogerergo@netzero.net](mailto:rogerergo@netzero.net), 703-658-3991 for the VA meetings; or, Bill Leavitt W3AZ, 301-292-5797 for MD meetings.

PENNSYLVANIA: Steve Cutshall, K3TZV, k3tzv@paonline.com, 717-763-0462.

RAPPAHANNOCK: Steve Bookout, NR4M (ex-NJ4F) NJ4F@erols.com. Also, Larry Schimelpfenig, K7SV, k7sv@va.prestige.net

SHENANDOAH: Bill Hinkle KV3R kb3aug@juno.com 304-567-3138

CARROLL COUNTY: Jim Nitzberg, WX3B.410-374-9233 nitz@selectsa.com

SOUTHERN MD: Chair: Wayne Rogers N1WR E-Mail: n1wr@chesapeake.net Phone: (H) (410) 394-0313 Meetings held at the home of N1WR.

SOUTHWEST VA: Coordinator: David Jones, N4JED, Vinton, VA 540-890-2034, N4JED@AOL.COM. Meetings begin at 6 pm at the Roanoker Restaurant, Roanoke, Virginia in a private room (ask at the desk if you have not joined us before).

TIDEWATER COLONY OF PVRC: This group now meets in conjunction with the Virginia DX Century Club at Ryan's Steak House, which is on Battlefield Blvd in Chesapeake, at the Battlefield Blvd South (VA 168) exit off I-64. The meeting is still the third Tuesday of every month. We gather for dinner around 1815-1830, with the meeting around 1915-1930. Contact W4ZYT at 757-457- 5181 or w4zyt@exis.net for additional info.

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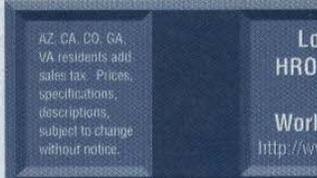
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