

# Palos Verdes Amateur Radio Club



# K6PV



# Q R O

## FEBRUARY 2007

## GOVERNANCE EVENING

*An election is coming. Universal peace is declared and the foxes have a sincere interest in prolonging the lives of the poultry.*

*T.S. Eliot*

## WELCOME TO ELECTION NIGHT!

Come vote for the slate or vote for someone you think might do a better job.

And then:

## WELCOME TO A VIRTUAL TOUR OF ARRL HEADQUARTERS!

In December 2003, members of the Marconi Amateur Radio Club visited ARRL Headquarters and videotaped their experience. This video tour includes interviews with key ARRL Headquarters staff. Produced by Bob Doherty, K1VV and Don Tanguay, N1DT, members of the Marconi Amateur Radio Club, W1AA.



Visit Our Web Site

# K6PV

[www.palosverdes.com/pvarc](http://www.palosverdes.com/pvarc)



# The President Pontificates

## Dave Scholler, KG6BPH

Our hats go off to Ginger, KG6TAU, and her team for a most enjoyable PVARC DX expedition talk on Two Harbors, very well done. Coincidentally we had a great audience attendance with several new and potential members. The presentation was perfect to demonstrate how we can go out and just have fun with HAM radio. It can not be said enough it is the members that make the Club work. There is a lot going on in amateur radio. Let's explore the opportunities out there together.

Mentioning the Board, the 2007 slate proposed to the club was presented at the last meeting. The proposed slate is:

President Joe Locascio, K5KT  
 Vice President Denzel Dyer, KG6QWJ  
 Treasurer Bill Harper, WA6ESC  
 Secretary Ginger Clark, KG6TAU

This is a strong group and I encourage everyone to support them. As we have seen it is the individuals that make the Club. We had a great year for 2006 and I am sure 2007 will be even better.

Technically only paid members can vote for officers. The new year is upon us and membership dues are due. So if you have not renewed your membership come a bit early to the next meeting and pay your dues.

As has been mentioned at the last couple of meetings that the DX expedition to Two Harbors brought out the need for a Club banner. We also have needed a banner for Field Days. Please submit sketches, drawings, ideas for a Club banner. The board will make it happen. We need your ideas.

See you at the February meeting.  
 Dave Scholler  
 KG6BPH  
 (310) 373-8166

I have no ambition to govern men; it is a painful and thankless office.  
 Thomas Jefferson

"Oh, that lovely title: Ex-president."  
 Dwight D. Eisenhower

### Treasurer's Report



Bill Harper

As of February 14, 2007

|                     |            |
|---------------------|------------|
| PVARC Balance       | \$2,074.12 |
| John Alexander Fund | \$ 834.50  |
| Repeater Fund       | \$ 801.16  |
| Total               | \$3,709.78 |

### Board of Directors

President Dave Scholler, KG6BPH  
 Past President Mel Hughes, K6SY  
 Vice President Jeff Wolf, K6JW  
 Treasurer Bill Harper, WA6ESC  
 Secretary (Position Open)

### Appointed Offices

QRO Editor Ginger Clark, KG6TAU  
 Editor Emeritus/  
 Proofreader Bryant Winchell, W2RGG  
 Graphics Guy Rick Murray, K6WXA  
 Web Page Editor Rick Murray, K6WXA  
[www.palosverdes.com/pvarc](http://www.palosverdes.com/pvarc)

### Contacts

QRO Editor 310-378-7894  
 WebMeister: 310-544-0982



## DE the VP Jeff Wolf, K6JW

As your VP for the past two years, it has been my pleasure to serve the Club. As most of you know, I have been elected President of the Southern California DX Club for 2007. This is a big job in a highly active, very visible organization. Despite the demands of that job, however, I expect to remain quite active with the PV Club and hope to contribute at least occasional articles to QRO as long as they are considered helpful to the organization's membership. To those of you who have provided me with feedback (positive and negative!) and encouragement regarding my columns and articles over the past two years, I express my thanks.

I also want to thank Dave, KG6BPH, for his outstanding leadership over the past two years. Dave has worked tirelessly and enthusiastically on behalf of every one of the Club's many activities during his tenure as President, and the Club is today more vital than it has been at any other time in my twenty years of membership. Dave has also been very active in a number of less visible ways to the membership, attending LAACARC meetings, for example, and taking an active role in the Council's operations. I believe the Club owes him a great deal of appreciation for a job not just well, but superlatively done.

Bill, WA6ESC, also deserves tremendous thanks from the Club for performing a function nearly totally unseen by the general membership but crucial to our current well-being. Bill has, single handedly, organized the finances and reporting of finances for the Club so that financial history is well documented and current status is being tracked with a precision and clarity never before seen in the PVARC.

On the home front, at this writing my tower is almost up and I'm just about to get back on the air from my fixed station after over a year off the air. Operating HF mobile has been fun but, for a DX freak such as myself, there's nothing like hooking up to that Yagi on top of the tower. Perhaps later in the year I'll have an opportunity to do a presentation to the Club showing the

actual tower and antenna installation process. It was great to see it all finally come to fruition, even if Rowie has grumbled a bit over the impact of all that heavy work on the back lawn! In addition to the tower and SteppIR Yagi, I expect to have the new Alpha 9500 linear delivered and operational very shortly. Club members are welcome to visit the station as it becomes fully functional over the next month or so.

At this writing, the program for the February meeting is still not finalized but, rest assured, I'm working to make it interesting.

My congratulations in advance to the new Board that will be elected at the February meeting. I'm sure the 2007 leadership will do a great job.

Dit dit.

73 es gud DX,  
JW, K6JW

Diplomacy is the art of saying "Nice doggie" until you can find a rock.

Will Rogers

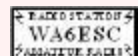
### IT IS THAT TIME OF YEAR AGAIN! DUES FOR 2007

Last year was a very good year for the Palos Verdes Amateur Radio Club. There were many activities and events that took place such as Field Day, PV-Marathon, Light House, Catalina Island IOTA, Antenna of the month, Holiday Dinner, the QRO and more. You don't want to be left out of this year's events. There are great plans ahead and super events for 2007. Stay connected and renew your dues now! At \$15 it's a bargain!

Please remit early. Its easy and almost painless with the new renewal form found on the last page of the QRO news letter.

Pay me at the meeting or you can mail your dues to the address on the form.

Thank you,  
Bill Harper, WA6ESC  
PVARC Treasurer



## Marathon Radio Operators!!

Denzel Dyer, KG6QWJ

PVARC volunteers will provide communications support for the Palos Verdes Marathon again this year. We provide operators for the race director and for the aid stations along the route. There will also be two, perhaps three, vehicular rovers patrolling segments of the course. The race begins at Point Fermin Park in San Pedro. Runners follow Paseo del Mar, Western Avenue, 25th Street - Palos Verdes Drive South, and Palos Verdes Drive West into Palos Verdes Estates, then turn and retrace the route back to Point Fermin.

The Marathon is scheduled for Saturday, 19 May (Armed Forces Day), with operations beginning at 6 a.m. In previous years, some very slow runners have finished in mid-afternoon. This year, we are told that the support will be cut off early in the afternoon.

As of early February, we still need 10 to 12 operators, and can find room for more.

Aside from being helpful to the Marathon, this is a good opportunity to practice radio operations and polish skills. The weather is typically great. The net is rather casual. Hand-held radios are entirely ad-

equated for almost all the assignments.

To volunteer, e-mail Denzel Dyer ([denzel.dyer@verizon.net](mailto:denzel.dyer@verizon.net)), or phone him at: 1-310-377-7579 (home) or 1-310-541-5320 (home office).

For more information check out the following websites:

The PVARC Website at [www.palosverdes.com/pvarc](http://www.palosverdes.com/pvarc). Go to News and Events and then to Marathon.

The PV Kiwanis Website at [www.palosverdes.com/kiwanis](http://www.palosverdes.com/kiwanis).

*Editor's note: This is the first year Denzel has managed this event. As you know, he is taking the job over from Walt Ordway and is, thereby, maintaining our Club's reputation as the people who make the marathon happen.*

*For those of you who don't get out much - here's a fine opportunity to spend the morning sitting with an HT in the warm sunshine at one of the stations on the route and watching other people sweat..*

*Let's help Denzel get a kick out of doing this event by giving him plenty of help so it's an easy job for him and for all of us.*

## Speaking of Marathons

The 23rd annual "Baker To Vegas Challenge Cup" will be held April 21 and 22<sup>nd</sup> this year. As most of you may know this is a 120 mile relay race beginning a few miles north of Baker CA and ending in Las Vegas NV. It is sponsored by the public service sector including police and fire departments as well as other services such as the FBI.

Each stage is approximately six miles long. Runners are started in groups of 20, so multiple stages will have runners at any given time. Multiple communication positions are required at the stage location as well as for overall communications. Not all activities require a radio license so it could be an activity to share with your family.

If you are interested, please email Comm. Capt. David Greenhut, at [N6HEL@ARRL.Net](mailto:N6HEL@ARRL.Net), or Eugene Humpherys at [ehumpherys@baylessengineering.com](mailto:ehumpherys@baylessengineering.com).

FEBRUARY 2007



# ARRL Summary Report

Bryant Winchell, W2RGG



## **PRESIDENT EXPRESSES APPRECIATION TO AMATEUR RADIO OPERATORS**

President George W. Bush has written the ARRL to recognize the just-ended Hello-Amateur-Radio public relations campaign and to extend “greetings to all those celebrating 100 years of voices over the airwaves.” The president said the centennial of Reginald Fessenden’s landmark Christmas Eve 1906 voice broadcast “opened the door for technological advances” that improved the lives of people around the world. [Ref.: *The ARRL Letter*, Vol. 26, No. 03, January 19, 2007]

## **IT’S OFFICIAL! MORSE CODE REQUIREMENT ENDS FRIDAY, FEBRUARY 23**

Circle Friday, February 23, on your calendar. That’s when the current 5 WPM Morse code requirement will officially disappear from the Amateur Radio Service Part 97 rules. Effective that date, applicants for a General or Amateur Extra class Amateur Radio license no longer will have to demonstrate proficiency in Morse code. They’ll just have to pass the applicable written examination.

The new rules also mean that starting February 23 all Technician licensees, whether or not they’ve passed a Morse code examination, will have CW privileges on 80, 40 and 15 meters and CW, RTTY, data and SSB privileges on 10 meters. Once the new rules go into effect Technicians may begin using their new privileges without any further action. Ref.: *The ARRL Letter*, Vol. 26, No. 04, January 26, 2007

## **ARRL ANNOUNCES HEADQUARTERS REORGANIZATION**

ARRL Chief Operating Officer Harold Kramer, WJ1B, this week announced several organizational changes at ARRL Headquarters, effective January 22. Under the modified organization, most functions of the former Membership Services Department and Field and Educational Services will be combined into a single unit, tentatively called the Programs and Services Department. The League also will establish a new Education Department. Ref.: *The ARRL Letter*, Vol. 26, No. 04, January 26, 2007

## **NEW VANITY CALL SIGN PROCESSING HIATUS CONTINUES**

The hold, on processing new Amateur Radio vanity call sign applications, remained in effect at week’s end, although FCC Wireless Telecommunications Bureau staff members have indicated informally that it would end very soon. The Commission stopped processing new vanity call sign applications while it modifies the software that handles vanity applications. The suspension, which does not affect vanity call sign renewals, resulted from a new Amateur Radio Service rule that went into effect December 15 to discourage the filing of multiple applications by one individual for the same call sign on the same receipt day. *ARRL Letter*, Vol. 26, No. 04, January 26, 2007

## **LEAGUE ROLLS OUT EMERGENCY RADIO PUBLIC RELATIONS CAMPAIGN WEB SITE**

“Ham Radio . . . Getting the message through for your family and community” is the theme of the League’s 2007 public relations campaign. The “Emergency Radio” Web site <<http://www.emergency-radio.org/>> debuted this week. ARRL Media and Public Relations Manager Allen Pitts, W1AGP, says the 2007 PR initiative picks up the momentum ARRL public information officers started during the just-ended “Hello” campaign. Ref.: *ARRL Letter*, Vol. 26, No. 05, February 2, 2007

**NO “CODE-FREE” UPGRADES AVAILABLE UNTIL FEBRUARY 23**

Code-free upgrades to General or Amateur Extra will not be available at volunteer examination sessions until the 5 WPM Morse code requirement disappears from the FCC’s Amateur Radio Service rules on February 23. ARRL Regulatory Information Specialist Dan Henderson, N1ND, says that, judging from the questions he’s been getting, many in the amateur community — including some Volunteer Examiners (VEs) — don’t fully understand the new rules and privileges resulting from the FCC’s Report and Order (R&O) in the “Morse code proceeding,” WT Docket 05-235 [http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-06-178A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-178A1.pdf). He stresses that VE teams may not accept upgrade applications in advance of February 23, then hold the paperwork. Ref: *ARRL Letter*, Vol. 26, No. 06, February 9, 2007

**AMATEUR RADIO VOLUNTEERS SUPPORT TORNADO RELIEF OPERATION**

*\*(Note from W2RGG- I’m including the following because of the quite extraordinary height of the repeater tower mentioned [oh, if we all should be so lucky –makes the proposed RPV Ham tower of 112 feet seem quite short!]) and the remark about having to use simplex)*

When deadly tornados struck Central Florida early Friday, February 2, Amateur Radio volunteers turned out to assist emergency managers and relief organizations to supplement communication and offer other support. Volusia County EC Fred Magliacane, KF4VRS, reports the adjacent KE8MR 145.23 MHz repeater was abruptly taken off the air after the storm toppled the 1500-foot commercial radio tower that had supported the repeater’s antenna,

“Over the past few years we have learned that we cannot always rely on repeaters,” Magliacane says. “We have trained our members to use simplex if and when the repeaters fail. One net a month we have a simplex net, and sometimes during the regular nets, we turn off the repeaters to see if our members remember to go to simplex.”. Ref.: *ARRL Letter*, Vol. 26, No. 06, February 9, 2007

**FCC NOW PROCESSING AMATEUR RADIO VANITY CALL SIGN BACKLOG**

The FCC has resumed processing new Amateur Radio vanity call sign applications. An initial stab at whittling down the backlog began February 8 — five weeks to the day after the Wireless Telecommunications Bureau (WTB) issued the last vanity call sign prior to the resumption. The Commission stopped processing new vanity call sign applications received on or after December 18 while it readied the Universal Licensing System (ULS) <<http://wireless.fcc.gov/uls/>> vanity application software to accommodate a December 15 rule change to discourage the filing of multiple applications for the same call sign. Ref.: *ARRL Letter*, Vol. 26, No. 06, February 9, 2007

**FSDXA ST BRANDON (3B7) DXPEDITION RECEIVES ARRL COLVIN AWARD**

A planned September DXpedition to St Brandon (3B7) will benefit from a \$5000 ARRL Colvin Award support grant. The Five Star DXers Association (FSDXA) team is scheduled to operate as 3B7C <<http://www.3b7c.com/>> from Isle du Sud from September 7 until September 24. Located in the Indian Ocean, St Brandon (Cargados Shoals) is part of the Republic of Mauritius and was number 45 overall on the latest available most-wanted list of DXCC entities, although West Coast US DXers put it at number 18. Ref.: *ARRL Letter*, Vol. 26, No. 06, February 9, 2007

What luck for rulers, that men do not think.  
Adolf Hitler



Our Antenna of the Month

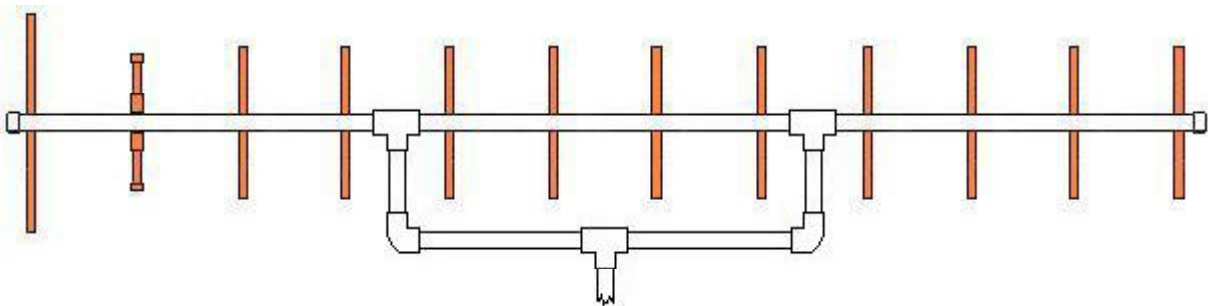


# “BIG BANG FOR SMALL BUCKS” YAGI

## BILL HARPER, WA6ESC



Rick and I continue in our pursuits of the low profile, neighbor friendly, hard to see, covert antenna. Unfortunately, distractions come along and in the long run the old adage, “bigger is better” tends to prove out. What originally started out as a simple three-element yagi, grew into a four-element experimental version. From there, to six elements, to stacked twin six element yagi’s, to the end result of a full scale twelve-element yagi for 450 MHz.



Staying with the conventional building materials, all the elements are made from lengths of half-inch copper pipe. The support boom is cut from three-quarter inch PVC pipe. At just under eight feet in length, additional support was required for the boom to hold the elements on a vertical plane, so a lower support shaft was affixed to the main support boom to aid in balancing the antenna.

Feeding the antenna is accomplished through an open hair pin tuning loop fed with a coaxial balun.

The end result is an inexpensive, simple to construct antenna made from common plumbing materials and which produces just over 14 Db of forward gain.

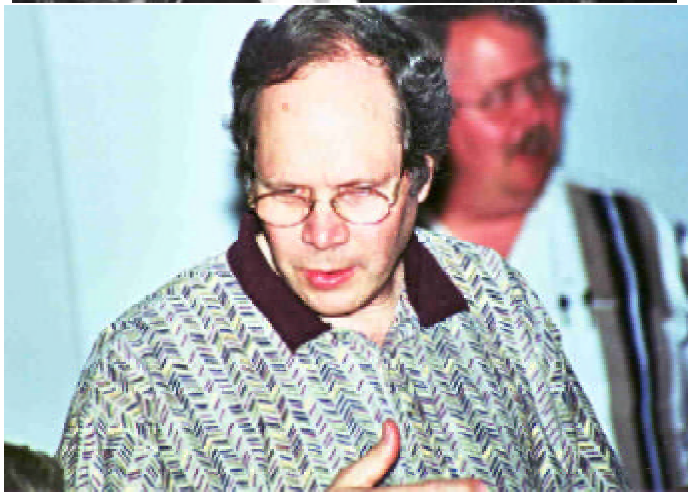
Rick and I have talked, and I think you’ll agree, between the two of us we’ve pretty much covered the gamut of various types and versions of UHF and VHF antenna. For the coming year, unless some whiz-bang or untried antenna design comes along, you’ll find us tuning up and down the band with antenna designs outside the VHF / UHF spectrum.

Till next time, 73 - *Bill*

|   |   |   |
|---|---|---|
| <p>Politics: A strife of interests masquerading as a contest of principles. The conduct of public affairs for private advantage.</p> <p>---Ambrose Bierce</p> | <p>Good thing we’ve still got politics in Texas— finest form of free entertainment ever invented.</p> <p>---Molly Ivins</p> | <p>The Democrats are the party that says government will make you smarter, taller, richer, and remove the crabgrass on your lawn. The Republicans are the party that says government doesn’t work and then they get elected and prove it.</p> <p>-----P.J. O’Rourke</p> |
|---|---|---|

**Question: What were we doing in 1999??**

**Answer: Pretty much the same thing we're doing now.**



Thanks to Emmett Ingram, W6BGN, for taking these pictures at a meeting seven years ago.





# FCC “Technician” Class

Amateur Radio Course

March 10, 10:00 a.m. to 4:30 p.m.

Hesse Park, 29301 Hawthorne Blvd

Rancho Palos Verdes

No pre-registration required

No fee for the course

Optional Material:

Copy of Power Point course charts, \$10.

Gorden West book with FCC test questions, \$15.

Students (through grade 12) who take this course and get their license will be reimbursed up to \$40 by the

Palos Verdes Amateur Radio Club

For more information contact

Walt Ordway, K1DFO, at [waltordway@juno.com](mailto:waltordway@juno.com)

An FCC test will be given on

17 March at Hesse Park, \$14.

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## Visalia International DX Convention 2007

The 2007 International DX Convention will take place April 27, 28 & 29, 2007 at the Holiday Inn Hotel & Conference Center in Visalia, California. This ARRL sanctioned convention is sponsored this year by the Northern California DX Club. It will feature programs from recent DX-Peditions and contest operations.

The Convention theme this year is, “**Elmering New DXers is Job Number One!**” Accordingly, a portion of the programming will be devoted to helping new DXers learn about how to be noticed in a pile-up, snag a “new one” and get that elusive QSL card.

Other Convention offerings will include: Forums, technical talks, door prizes, evening “attitude adjustments”, Saturday Barbecue Lunch and banquet, Sunday “power” breakfast, Exhibits and QSL card checking.

Information and registration forms are available on the Convention web page, [www.dxconvention.org](http://www.dxconvention.org) or contact Convention Registration Chairman, Dick Letrich, W6KM via Email at [dlw6km@aol.com](mailto:dlw6km@aol.com).

If you’re interested in DX or DXing, the Visalia International DX Convention is *the* place to be. We hope to see you there.

# OPPORTUNITIES

## February

**February 21** - PVARC Club meeting and elections for 2007 officers.

## March

**March 10** - Ham Radio Class-10:00 Hesse Park

**March 17** - Ham Radio Exams - Hesse Park

**March 21** - PVARC Club meeting

## April

**April 18** - PVARC Club meeting

**April 21-22**-Baker to Las Vegas race

**April 27, 28, 29**-DX Convention at Visalia

## May

**May 16** - PVARC Club meeting

**May 19** - Palos Verdes Marathon-With a new Organizer! Denzel Dyer, KG6QWJ, has offered to take over this year's marathon. When he calls to ask you to help, give him a break and say yes! If he doesn't call you, offer to help anyway. One morning worth of time. And it's fun!

## June

**June 20** - PVARC Meeting

**June 23 & 24** - Field Day Weekend!

**Board of Director's meetings** are held on the first Monday of the month at the president's house. All visitors are welcome.

**Repeater Board of Director's meetings** are held on an irregular schedule but all members are welcome to attend. Let a Board member know you're interested and someone will contact you when a meeting is scheduled.

Suppose you were an idiot, and suppose you were a member of Congress; but I repeat myself. -----Mark Twain

One of the penalties for refusing to participate in politics is that you end up being governed by your inferiors. -----Plato

I love California, I practically grew up in Phoenix. -----Dan Quayle

This is membership-renewal month. Take a moment to fill out the application (well, re-application) on the back page and send it to the Treasurer with your dues or bring it to the Club meeting.

## Who's Who? Find An Elmer

Antennas:

Bill Harper, WA6ESC;

Concours d'Elegance:

Rick Murray, K6WXA

Contesting:

Walt Ordway, K1DFO

CW:

Bill Pomeranz, KB6FB

DCS:

Jeff Wolf, K6JW

DX:

Bill Pomeranz, KB6FB

Education/Classes:

Jeff Wolf, K6JW

Field Day:

Walt Ordway, K1DFO

HF, Getting Started:

Jeff Wolf, K6JW

Lighthouse Events:

Bill Pomeranz, KB6FB

PVAN:

Dan Colburn, W6DC

PV Marathon

Rick Murray, K6WXA;

RHE 5K/10K

Alan Soderberg, W8CU

Denzel Dyer, KG6QWJ

Walt Ordway, K1DFO

*These Club members have all offered to share their skills. So feel free to contact them Find contact information in the Club Roster. Want to add your name to this list?*

*Contact the editor Ginger Clark, KG6TAU at ginger.garnett@gmail.com or 310.378.7894.*

# From the Webmaster...

*Rick Murray, K6WXA*

January, while usually a relatively slow period for the Club, was a busy month for the Club's website. If you haven't visited the site lately, or haven't taken a good look around at what's new, do it now. You'll find several changes have gone into the site.

If you missed the January Club meeting with its presentation on our excursion to Catalina Island, you'll find a link which has been created on the "News & Events" page under the 'Club Events' header which will take you to a page of selected photos from our trip. Under the same header, if you missed our Club's Christmas Party-- a huge success, you'll find a link to a page with photographs from the party.

The Palos Verdes Marathon is literally just around the corner. If you've worked this event in the past, or are planning on working this year's event, or maybe you're just interested in tagging along and assisting at one of the positions, the page covering the PV Marathon as well as all of the attachments, has been completely redone. A link is provided on the "News & Events" page under the 'Announcements' header for your convenience.


Also just around the corner is Field Day. In keeping with site maintenance, I'd invite you to go to the "News & Events" page and scroll down until you find the link for Field Day 2002. If there are any pictures you'd care to copy off, now is the time to do so as these files will be removed from the website come July.

PVAN now has its own dedicated website created by Herb Stark, KO6RC. At the opening page of the club's website, click on the "PV Alert Net" button to visit the new PVAN site and have a look around. Particularly of interest, is the "Facility" tab where you can view a gallery of pictures as the new RPV Emergency Communications Operations Center starts to take shape.

As a reminder, to stay abreast of changes to your website, always start your visit by clicking on the "What's New" button on the opening page.

PALOS VERDES PENINSULA NEWS

## OPINION



This is what Bob Landon's been up to recently. Fortunately it happened a few days before he was due to get new window panes. No one seems to realize that peacocks need internet access too.



### Need a Club Badge?

Contact Karen Freeman, KG6BNN  
310-541-6971 \$13

### Need a Club Patch?

Contact Dave Scholler, KG6BPH  
310-373-8166 \$5

### Want a new Club Jacket?

Contact Dave Scholler, KG6BPH  
310-373-8166 \$35-\$50



"The people have spoken, damn it"  
-----Anonymous politician



Palos Verdes Amateur Radio Club  
P.O. Box 2316  
Palos Verdes Peninsula, CA 90274

### New Membership Application and Member Renewal Form

New: \_\_\_\_\_ or Renewal: \_\_\_\_\_ Membership Date: \_\_\_\_\_

Individual \_\_\_\_ (\$15/Year) or Household and/or Family Membership \_\_\_\_ (\$17/Year)

(Applying) Member Information: Member Renewal same as Last Year? YES\_\_NO\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Spouse: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_

Email address: \_\_\_\_\_

*(Unless otherwise noted emails will be sent to the applying member only)*

License Call: \_\_\_\_\_ License Class: \_\_\_\_\_ ARRL Member? \_\_\_\_\_

Member of: DCS/RACES/ARES/PVAN \_\_\_\_\_ District \_\_\_\_\_ Unit ID # \_\_\_\_\_

**Additional Household and/or Family Members (if Applicable):**

Name \_\_\_\_\_ Call Sign \_\_\_\_\_ Class \_\_\_\_\_ ARRL \_\_\_\_\_

Name \_\_\_\_\_ Call Sign \_\_\_\_\_ Class \_\_\_\_\_ ARRL \_\_\_\_\_

Name \_\_\_\_\_ Call Sign \_\_\_\_\_ Class \_\_\_\_\_ ARRL \_\_\_\_\_

Individual membership (\$15.00) \$ \_\_\_\_\_  
Household and/or Family membership (\$17.00) \$ \_\_\_\_\_  
Donation to the John Alexander Fund \$ \_\_\_\_\_  
Donation to the Repeater Fund \$ \_\_\_\_\_  
Donation to PVARC \$ \_\_\_\_\_

Cash: \_\_\_\_\_ or Check: \_\_\_\_\_ Date \_\_\_\_\_ TOTAL \$ \_\_\_\_\_

Please make checks payable to: Palos Verdes Amateur Radio Club

Dues are based on the January 1<sup>st</sup> to December 31<sup>st</sup> calendar year.