



QRO

THE MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

May 2011

How You Can Work the Amateur Radio Satellites— Using Equipment You Probably Already Own

Clint Bradford, K6LCS, will give his presentation on “Working Amateur Satellites With Your HT” at our May 18th (Wednesday) meeting at 7:30 pm in Fred Hesse Park’s Activity Room.

Clint lives near Riverside and we are honored to have him in person at our club meeting. He also gives his satellite presentations to amateur radio clubs throughout the United States via Skype internet connections. Clint is Area Coordinator for AMSAT, the Radio Amateur Satellite Corporation.

He suggests you download a four -page PDF tutorial from his website at: <http://web.me.com/clintbradford/Work-Sat/Home.html> (where it says “CLICK HERE” in the “Start Here” section). ■

Photo (right):
Clint Bradford showing hams how to work an amateur satellite using an HT radio and simple VHF/UHF antenna.



Our President Speaks As Our Summer Events Near

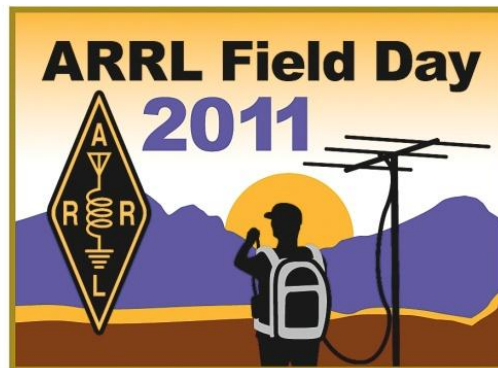
By Jeff Wolf, K6JW
PVARC President

As I write this, the weather is warm and summer beckons. What does that mean? It means Field Day and the Club picnic over Lighthouse Weekend, with Hamcon to follow in September. Let's take a look at each event.

Field Day this year will be over the weekend of 25-26 June, and the PVARC is planning its participation to occur, as usual, adjacent to the athletic field at Palos Verdes Peninsula High School (Hawthorne and Silver Spur). Annually, it's the biggest amateur radio event in terms of U.S. ham participation, and it pulls in many Canadians as well as a number of Central and South Americans.

What is Field Day? It's an emergency preparedness exercise dressed up as a contest. Participants are encouraged to set up stations under field conditions, independent of commercial power sources, and operate for 24 hours. The goal is to make contacts with as many other Field Day stations as possible and exchange a specific signal report with each contact. Contacts yield points, and various other achievements yield bonus points. Total scores are submitted to the ARRL and rankings are published in the December issue of QST. Field Day is both challenging and fun. The PVARC has participated for over 20 years on its own. (Before that, the Club used to team with Northrop.) All are invited to attend and no prior experience is necessary. We'll be providing specific details over the next month so you can determine the level and type of your participation. No amount is too little, so plan to attend even for a little while.

The weekend of 20-21 August will mark our annual International Lighthouse and Lightship



Weekend event at the Pt. Vicente Lighthouse, and on Sunday we'll have our annual picnic onsite, as well. ILLW is not a contest but, rather, it offers Club members and their guests an opportunity to spend time on the Pt. Vicente Lighthouse site and operate from the lighthouse, itself. Many lighthouses around the world will be activated by hams, and it's great fun to give out lighthouse contacts to "the deserving", i.e., to all those folks who want to work a lighthouse station. It's even more fun to work lighthouse to lighthouse. It's not a contest, and on-air conversation is encouraged. So, do plan to spend a little time on the mic over that weekend. The event, as all amateur events, runs on UTC, so it will start at 5 PM on Friday and run until the picnic ends on Sunday afternoon.

Finally, there's Hamcon, the ARRL Southwestern Division Convention. This year, it will be held (as it was in 2007) at the Torrance Marriott, right in our own backyard. In fact, the PVARC is one of the active promoters and supporters of the convention, so Club participation is essential and we'll be looking for volunteers to give some time working at the convention. Dates are Friday, Saturday, and Sunday, 9-11 September. If you register before 5/31, you can get the "early bird" registration rate of \$15. After that it's \$18 up to 8/1, and after that it's \$20. Register now and save.

We hope to see you at the upcoming regular Club meeting on 5/18. The program will be all about satellite communication, presented by Clint Bradford, K6LCS. Plan to join up for pre-meeting camaraderie and dinner at The Red Onion at 5:30.

73 es gud DX. ■

Monthly Program Notes from Our Vice President

By Bob Sylvest, AB6SY
PVARC Vice President

What does it take to collect contacts from all 3,077 counties in the USA?

Attendees at the April meeting found out from Walt Ordway, K1DFO. Walt achieved this amazing feat not once, but twice, and he is the first ever to contact all counties from a mobile station, earning him the distinction of serial number one in this category. Thanks again to Walt for a fun and enlightening special program.

The May meeting promises to be equally informative and entertaining. Our special speaker is Clint Bradford, K6LCS, whose presentation is entitled "Working Amateur Satellites With Your HT." Clint says, "Most hams already have the necessary equipment to work FM amateur satellites." It just takes a little know-how, which he will provide. He's known for lively and engaging presentations and for "keeping it simple".

Clint is the area coordinator for AMSAT, which was formed in 1969 as a non-profit educational organization to foster amateur radio's participation in space communication and research. AMSAT pioneered the concept of a small, 9-inch cube satellite in low earth orbit and has been involved with units as heavy as 1,400 pounds as well. Its vision is to provide wide area and continuous amateur radio coverage through deployed satellite systems. Complete information about AMSAT can be found at <http://www.amsat.org/amsat-new/index.php>.

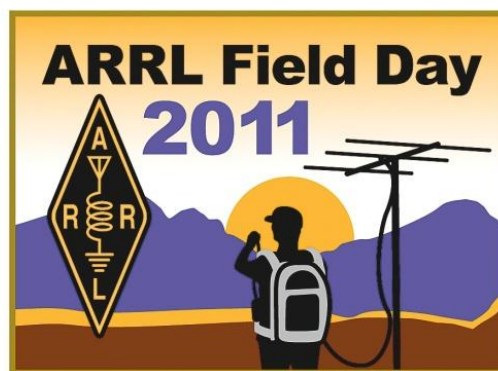
Clint offers his presentation across the country with a Skype link for the audio, but we are fortunate that he will travel from his Mira Loma home to attend the PVARC meeting in person.

In May he is also presenting to clubs in Tennessee, North Carolina and Georgia. He's a popular guy. He'll bring equipment to show and demonstrate at our meeting.

In preparation for the meeting, Clint suggests checking the following links:
http://web.me.com/clintbradford/Work-Sat/Sat_Skeds.html for a wealth of satellite schedule and status information links,
<http://www.n2yo.com/> for real time satellite tracking, and, of course, the AMSAT site noted above.

For June:

We are planning a "Field Day" primer covering everything you need to know about this premiere operating event and its proud history.



☞ The first Field Day was in 1933.

For July:

Dig out the camera and take a couple shots of your station, your antenna(s), your projects, anything of the sort that you'd be willing to share with the club. There could be something unique about your location or station or personal experience that would spark a good discussion with other hams. This meeting will offer a good chance to become familiar with other club members' stations and know-how. ■

Tracking amateur radio satellites: Here are some ways to do it

Several visually-attractive software packages can handle antenna rotators, Doppler frequency shift on certain radios, and satellite tracking info

Screenshot of SatPC32 software (by Erich, DK1TB, www.dk1tb.de); our member Knut, N6BNP uses this.

The screenshot shows the SatPC32 software interface. At the top, it displays the title bar 'SatPC32-Ya [Standard A:F0-29] [Registered to Erich Eichmann, DK1TB]'. Below the title bar is a menu bar with options: File, Tracking, Satellites, CAT, Rotor, Mode, Setup, Programs, Accy, ?. The main window features a 3D globe of Earth with several satellite orbits plotted. Labels on the globe include 'H CAPE1 Aos:17:42 maxE:13', 'D:40-51', 'E:01', 'F:GO-32 Aos:16:24 maxE:28', and 'G:ISS Aos:12:49 maxE:15'. Below the globe is a data table with columns: Azimuth, Elevation, MA, Height, Range, L, SSP, B, Orbit, Squint, Aos, Los, MaxE. The table contains the following data:

Azimuth	Elevation	MA	Height	Range	L	SSP	B	Orbit	Squint	Aos	Los	MaxE
288,4	32,2	250,6	810	1349	224	46	53182	--	*****	12:47	32	

At the bottom right of the interface, there are buttons labeled A through F, and G through L.

Below: Screenshot from Nova for Windows (from Northern Lights Software Associates, www.nlsa.com)

The screenshot shows the Nova software interface. It features a 2D map of the Earth with the orbit of the International Space Station (ISS) plotted. The ISS is labeled 'ISS (ZARYA)' and its current position is marked over 'Santon, NY'. To the right of the map is a detailed data table for the ISS (ZARYA):

1 Sat	ISS (ZARYA)
Azimuth	355,8°
Elevation	-43,9°
Range	9,412.5 km
Height	393.5 km
AOS time	06:29:09 UTC
LOS time	06:38:09 UTC
Until	10:38:45
Duration	00:09:00
AOS Az.	189°
Max El.	12°
LOS Az.	75°
Op Mode	1
Squint	0,0°
MA	53.9
Visual	Sun
Orbit #	20,787

At the bottom of the interface, there are several control buttons including a STOP button and various navigation icons.

▶ Tracking amateur radio satellites (continued): It's really simple to locate the "birds"!

Several free websites can provide satellite pass times and other tracking data

AMSAT Online Satellite Pass Predictions

Launch Pad	Navigator	Sat Status	Keps	Passes	News	Store	Members
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AMSAT Online Satellite Pass Predictions - AO-51

[View the current location of AO-51](#)

Date (UTC)	AOS (UTC)	Duration	AOS Azimuth	Maximum Elevation	Max El Azimuth	LOS Azimuth	LOS (UTC)
09 May 11	06:59:38	00:14:08	139	28	84	1	07:13:46
09 May 11	08:38:13	00:14:24	193	28	248	335	08:52:37
09 May 11	19:12:08	00:10:44	40	11	100	142	19:22:52
09 May 11	20:49:45	00:13:58	7	59	285	203	21:03:43
09 May 11	22:30:58	00:07:12	332	4	306	270	22:38:10
10 May 11	06:21:52	00:11:39	115	12	56	13	06:33:31
10 May 11	07:58:15	00:15:06	171	72	231	346	08:13:21
10 May 11	09:40:49	00:09:07	234	5	260	309	09:49:56
10 May 11	20:10:21	00:13:54	18	50	105	181	20:24:15
10 May 11	21:49:57	00:11:29	350	14	289	239	22:01:26

www.amsat.org website partial screenshot shows satellite passes (click on "Passes", then satellite and your location.)

REAL TIME SATELLITE TRACKING

- POPULAR CATEGORIES**
 - [GEOSTATIONARY](#) [BRIGHTEST](#)
 - [WEATHER](#) [NOAA](#)
 - [IRIDIUM](#) [GLOBALSTAR](#)
 - [MILITARY](#) [AMATEUR RADIO](#)
 - [TV SATELLITES](#) [GPS OPERATIONAL](#)
- UP IN YOUR SKY**
 - [GPS](#)
 - [IRIDIUM](#)
 - [GLOBALSTAR](#)
 - [SIRIUS/XM](#)
 - [WHAT'S UP?](#)
- OTHER SATELLITE FEATURES**
 - [ALL CATEGORIES](#) [SEARCH DATABASE](#)
 - [BROWSE BY LAUNCH](#) [ALERTS BY SMS](#)
 - [STORM TRACKING](#) [FAQ](#)
 - [SEND FEEDBACK](#) [PREFERENCES](#)
 - [SATELLITE LINKS](#) [SUPPORT N2YO.COM](#)

[Sign in](#)

Find a satellite... [Advanced](#)

AMSAT OSCAR 40

LOCAL TIME:	0:0:22
UTC:	07:00:22
LATITUDE:	-7.51
LONGITUDE:	-153.4
ALTITUDE [km]:	49425.14
ALTITUDE [mi]:	30711.36
SPEED [km/s]:	2.72
SPEED [mi/s]:	1.69
AZIMUTH:	225.4 SW
ELEVATION:	+31.4
RA:	11h 39m 32s
DEC:	-12° 54' 9"
The satellite is in day light	
PERIOD:	1147m

[Make A Donation](#)

RECOMMENDED RESOURCES

- [IP2Location IP Geolocation](#)
- [Find your Magnetic Declination](#)

YOUR CURRENT LOCATION

Your IP address: **71.102.115.37**
 Latitude: **33.849182°**
 Longitude: **-118.388408°**
 Magnetic decl.: **12° 38' E**

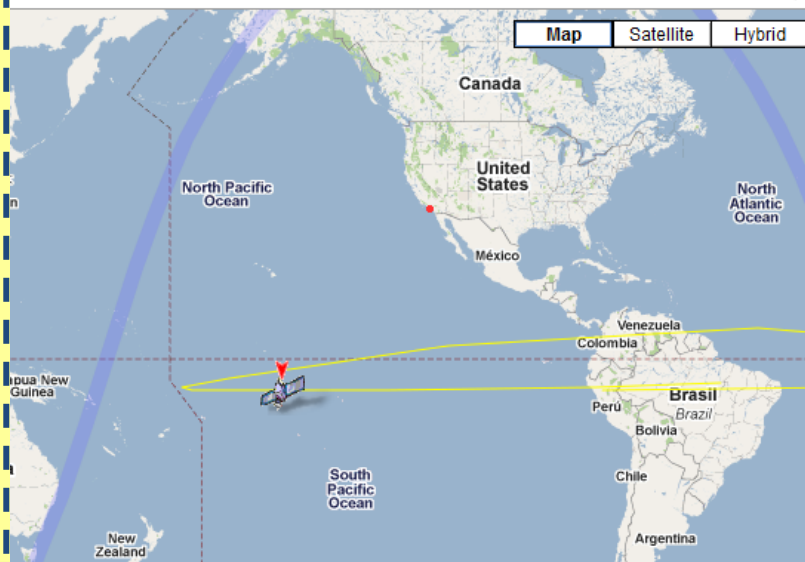
[Set your custom location](#)

Related Results

- [Location Shuttle](#)
- [Find Sales on Location](#)

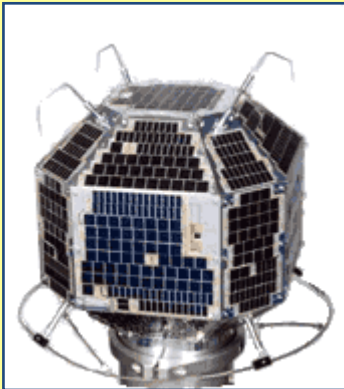
www.n2yo.com website partial screenshot of satellite tracking data: this shows AO-40; select the satellite desired.

Real time tracker Try it for free now! [Yast.com](#)
 Serial Maps, Satellite Photos & More With The Free Maps Appbar [Maps.alot.com](#)
 Military Intelligence Training at an Accredited Program. Apply. www.IntelligenceDegreeLeap.com



► Have we now got you interested in working the satellites?

Some “birds” that Palos Verdes Peninsula hams could have contact with



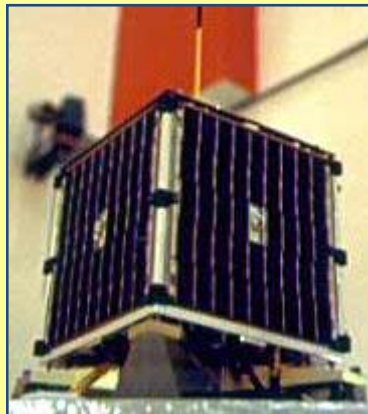
Fuji-Oscar 29 (FO-29)

Launched: 1996

Weight: 110 lbs.

Uplink: 145.900–146.000 MHz (SSB/CW)

Downlink: 435.800 – 435.900 MHz (SSB/CW)



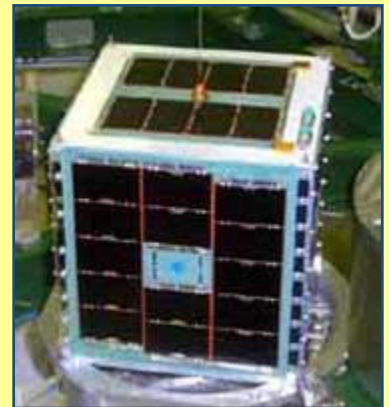
AMRAD-Oscar 27 (AO-27)

Launched: 1993

Weight: 26.0 lbs.

Uplink: 145.850 MHz (FM)

Downlink: 436.795 MHz (FM)



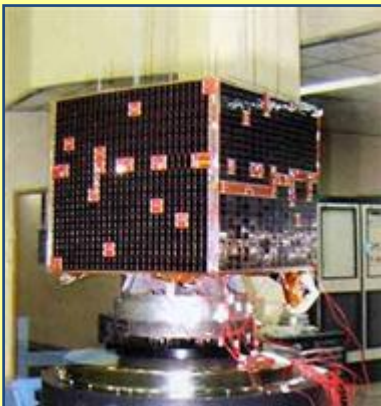
AMSAT-Oscar 51 (AO-51)

Launched: 2004

Weight: 24.6 lbs.

Uplink: 145.880 MHz (FM)

Downlink: 435.150 MHz (FM)



VUSat-Oscar 52 (VO-52)

Launched: 2005

Weight: 93.7 lbs.

Dual transponders, listen for the correct beacon.

If beacon carrier on 145.936 MHz—

Uplink: 435.2200 - 435.2800 MHz (SSB/CW); **Downlink:** 145.9300 - 145.8700 MHz (SSB/CW)

If CW beacon on 145.860 MHz:--

Uplink: 435.2250 - 435.2750 MHz (SSB/CW); **Downlink:** 145.9250 - 145.8750 MHz (SSB/CW)



International Space Station (ARISS)

Launched: 1998 (first section)

For crew contact from amateurs in ITU Regions 2 & 3:

Uplink: 144.490 MHz (FM)

Downlink: 145.800 MHz (FM)

FM voice repeater, worldwide:

Uplink: 437.800 MHz (FM)

Downlink: 145.800 MHz (FM)



PV-Pete

Launched: 2007(?)

Current Weight: 11.5 lbs. (avg.)

Messy **downlink** onto driveways, roofs, or yards. Beacon signal turned on in early a.m. hours. ■

All satellite photos and information courtesy of AMSAT, the Radio Amateur Satellite Corporation. www.amsat.org

Photo of International Space Station, courtesy of NASA;
Photo of PV-Pete by AI6DF

Short QSO's in This Month's QRO...

PVARC VE Teams License 15 New Hams Since March

PVARC's Volunteer Examiners conducted two recent VE sessions at Hesse Park that licensed 15 new amateurs and upgraded two others.

Our most recent VE session on May 7 resulted in eight Technician licenses and one upgrade to General class. Serving as VE's were: Matthew Cruse, N6MDC; Diana Feinberg, AI6DF; Joe Locascio, K5KT; and Alan Soderberg, W8CU.

Our March 12th VE session tested nine applicants, resulting in five Technician and two General licenses, plus a General upgrade. The VE team consisted of Steve Collins, KI6TEQ; Diana Feinberg, AI6DF; Bill Leighton, KG6WVF; Joe Locascio, K5KT; and Jeff Wolf, K6JW. Dave Scholler, KG6BPH, was the session coordinator for both test sessions. ■

K6SY Named "DXer of the Year"

Congratulations to our own Mel Hughes, K6SY, who received the prestigious "DXer of the Year" Award last month at the International DX Convention in Visalia. Mel is very high in the DX standings and has also worked extensively for the Southern California DX Club to make these DX conventions great successes. ■

PVARC Members Asked to Help At 2011 Concours d'Elegance

This year's PV Concours d'Elegance will be on Sunday, September 18, at the Trump National Golf Course. Several PVARC members have performed a volunteer function for many years to rent and issue commercial HT radios to other Concours volunteers who need such radios at the event. All volunteers get free parking, free admission, a free box lunch and, once the radios are issued in the morning, tour the Concours and see all the cars.

Walt Ordway, K1DFO, needs a few more volunteers to help issue the HT's on the morning of September 18th. Contact him at (310) 541-4007, or e-mail him at walt.ordway@yahoo.com. ■

PVARC Public Service Recap

Ridgecrest Intermediate School 5K Run

Ridgecrest Intermediate School's annual 5K Run was finally held on April 17 after being twice postponed due to Rolling Hills Estates' 5K horse trail being too wet. The Ridgecrest 5K was eventually run on the paved loop road in the South Coast Botanical Gardens and the race went very well. The only real issue was there were only 270 parking stalls at that facility and over 600 runners were expected. But somehow everyone made it to the event.

The following hams provided communications support for the 5K Run: Cynthia KJ6GPG, Curtis KI6KUK, Denzel KG6QWJ, Herb KO6RC, Jay KI6FVY, and Walt K1DFO. ■

American Diabetes Association's "Tour de Cure" 100-Mile Bicycle Tour

Two PVARC members learned a lot on May 1 about providing ham radio support for a large bicycle tour.

Lovell, KI6VZS, and Diana, AI6DF, were SAG vehicle radio operators at the American Diabetes Association's "Tour de Cure" event attracting nearly 2,400 bicyclists to the Queen Mary in Long Beach. All bicyclists crossed both the Gerald Desmond Bridge in Long Beach Harbor and the Vincent Thomas Bridge over Los Angeles Harbor before heading onto four routes. The longest route was 100 miles and stretched well-into Orange County after circling the Palos Verdes Peninsula.

PVARC was asked for amateur operators to assist the event's lead radio group, the Motorcycling Amateur Radio Club. What we learned will greatly improve our capability at any bicycle tour where PVARC has the lead communication role. ■

P.V. Marathon is Saturday, May 14

So far 26 PVARC members have volunteered to provide radio communication for this year's Palos Verdes Marathon. We'll report on it next month. ■

January 2011						
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May 2011						
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August 2011						
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October 2011						
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November 2011						
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December 2011						
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

PALOS VERDES AMATEUR RADIO CLUB 2011 SCHEDULE OF EVENTS



Weekly Club Nets:

All members and guests are invited to check-in to our Club net every Tuesday at 7:30 pm on the K6PV repeater, 447.120 MHz (-), PL 100.0.

Monthly No-Host Dinners:

Prior to each month's General Meeting, join club members (and often our speaker) at 5:30 pm for a No-Host dinner at the Red Onion Restaurant, 736 Silver Spur Road, Rolling Hills Estates.

- May 14th – Palos Verdes Marathon
- May 18th – General Meeting
- June 15th – General Meeting
- June 25th-26th – ARRL Field Day!
- July 20st – General Meeting
- August 13th – RHE 5K/10K Run/5K Walk
- August 19st-21nd – Lighthouse Weekend
- August 21nd – Summer Picnic at Pt. Vicente
- September 5th – Conquer the Bridge Run
- September 9th-11th – HAMCON 2011
- September 18th – Concours d'Elegance
- September 21th – General Meeting
- September 24th – RAT Beach Bike Tour
- October 19th – General Meeting
- November 16th – General Meeting
- December 14nd – Holiday Dinner, Ports O'Call Restaurant, San Pedro

Have a Photo of the Pt. Vicente Lighthouse to share in QRO?

Do you have an interesting photo of the Pt. Vicente Lighthouse you are willing to let us publish on QRO's front page? This lighthouse is an icon for our club. Email your photos to the QRO editor. ■

Don't Forget to Check-In to PVARC's Tuesday Nets on K6PV

All members are invited to check in during PVARC's weekly nets every Tuesday from 7:30-8:00 pm using the K6PV repeater.

We also encourage different members to serve as Guest Net Control Operators on the first Tuesday of each month. Let a club officer know if you are interested in serving as a guest net control. There's no obligation to serve again as net control, but it's an interesting experience.

Regular net control operators on other Tuesdays each month are: Knut Myhre, N6BNP, on 2nd Tuesdays; Daniel Yang, K6DPY, on 3rd Tuesdays; Bob Sylvest, AB6SY, on 4th Tuesdays; and Bill Harper, WA6ESC, on any 5th Tuesdays. ■

Take Advantage Now of Hamcon 2011's Early-Bird Registration through May 31

It's a great value to register before May 31 for the ARRL Southwest Division's Hamcon 2011 Convention at the Torrance Marriott. You'll save \$5 on the registration fee and also receive a free convention pin (a \$5 value). A registration form is on the last page of this month's **QRO**. ■

PVARC Treasurer's Report, 05-04-2011

PVARC General Fund	\$2,464.37
John Alexander Fund	\$997.00
Repeater Fund	\$1,251.86
Total Bank Balance	\$4, 713.23

2011 Membership to-date	130
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Palos Verdes Amateur Radio Club

An American Radio Relay League Affiliated-Club

Board of Directors:

President	Jeff Wolf, K6JW
Vice President	Bob Sylvest, AB6SY
Treasurer	Diana Feinberg, AI6DF
Secretary	Chuck McCown, K6CTM
Past President	Joe Pace, NZ6L
Directors:	Clay Davis, AB9A
	Mel Hughes, K6SY

Appointed Offices:

Interim QRO Editor	Diana Feinberg, AI6DF
Asst. to Editor	Paige Omoto, KI6MAH
Webmaster	John Freeman, WW6WW
Club Librarian	Bryant Winchell, W2RGG
VE Coordinator	Dave Scholler, KG6BPH
VE Liaison	Diana Feinberg, AI6DF
LAACARC Rep	Joe Pace, NZ6L
Yahoo PVARC Group Moderator	Daniel Yang, K6DPY

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Webmaster: 310-541-6971, jfree@cox.net

Email us: k6pv@arrrl.net

Website: www.palosverdes.com/pvarc

Mailing Address:

Palos Verdes Amateur Radio Club
PO Box 2316
Palos Verdes Peninsula, CA 90274-8316

Monthly Meetings:

Third Wednesday (except August and December) at 7:30 pm at Fred Hesse Park, 29301 Hawthorne Blvd., Rancho Palos Verdes, CA. Visitors always welcome.

Club Repeater (Open):

K6PV, 447.120 MHz (-), PL 100.0, CTCSS

To order a Club badge:

Karen Freeman, KG6BNN, 310-541-6971

To order a Club jacket or patch:

Dave Scholler, KG6BPH, 310-373-8166

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Front page photo of Pt. Vicente Lighthouse by:
AI6DF



Palos Verdes Amateur Radio Club
 P.O. Box 2316
 Palos Verdes Peninsula, CA 90274
 www.palosverdes.com/pvarc

**NEW MEMBER &
 MEMBERSHIP RENEWAL FORM**

NEW: _____ or RENEWAL: _____ MEMBERSHIP DATE: _____

Last Name: _____ First Name: _____ Spouse: _____

Street Address: _____

City: _____ Zip: _____

Phone: Home _____ Work _____ Cell _____

Email address: _____

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

License Call: _____ License Class: _____ ARRL Member _____ Birth Mo./Day: _____

Member of: (DCS, ARES, PVAN, NART) _____ District _____ Unit ID # _____

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

Name _____ Call _____ Class _____ ARRL _____ Birth Mo./Day: _____

Name _____ Call _____ Class _____ ARRL _____ Birth Mo./Day: _____

Name _____ Call _____ Class _____ ARRL _____ Birth Mo./Day: _____

Individual membership (\$15.00) \$ _____

Household and/or Family membership (\$17.00) \$ _____

Donation to the John Alexander Fund \$ _____

Donation to the Repeater Fund \$ _____

Other Donation to PVARC \$ _____

Cash: _____ or Check #: _____ Date _____ TOTAL \$ _____

Please make checks payable to: Palos Verdes Amateur Radio Club; Dues based on January 1st to December 31st year.
 All New and Renewal Member applications must be signed below.

Using amateur radio equipment improperly or ignoring safety practices can lead to injury or other harm. Don't try to perform amateur radio operations you might learn through PVARC or elsewhere unless you are certain they are safe for you. If something doesn't feel right, either: 1) do not do it; 2) look for another approach; or 3) ask for assistance from someone who is more experienced. PVARC wants you and your family to be safe and enjoy amateur radio to its fullest. Your signature below acknowledges that you will take responsibility for keeping safety foremost when working with amateur radio equipment or at events.

Signature: _____ Date: _____

Family Member Signature: _____ Date: _____

PVARC's amateur radio license courses taught by Walt Ordway, K1DFO, will be on vacation during the summer months. Walt's next classes start on September 24th. Please tell your friends, neighbors, and family members.

Two Amateur Radio Courses

FCC "Technician" course (entry level)

FCC "General" course (2nd level)

Each course is 2 sessions

The 2 sessions are on September 24 & October 1

Technician 10:00 AM to 2:00 PM both Saturdays

General 2:15 PM to 5:00 PM both Saturdays

FCC tests will be 10 AM to noon on October 8

The location is Hesse Park

29301 Hawthorne Blvd.

Rancho Palos Verdes

- No pre-registration required -**
- No fee for either course -**
- Taking the FCC Test is \$15 -**

Optional Material

- Gordon West book with all the FCC test questions,
\$22 for the Technician and \$22 for the General -**
- Copy of my Power Point charts,
\$18 for the Technician and \$18 for the General -**

Students (thru grade 12) who take this course and get their license are eligible to be reimbursed up to \$50 by the Palos Verdes Amateur Radio Club

For more information contact

Walt, K1DFO, at walt.ordway@yahoo.com

**ANNOUNCING
THE NEXT SW DIVISION CONVENTION**



HAMCON 2011

ARRL Southwest Division
Amateur Radio Convention
"COMMUNICATIONS
AROUND THE WORLD"

September 9, 10, & 11, 2011

Marriott Torrance South Bay

3635 Fashion Way, Torrance, CA 90503 1-800-228-9290

Hotel Reservation Code: HAMCON

COME JOIN THE FUN

AND

EXPERIENCE WHAT HAM RADIO HAS TO OFFER

CW

W1AW/6

DX

SPECIAL EVENT STATION

LUNCH

VENDORS

ANTENNAS

BANQUET

EXHIBITORS

WOUFF HONG

EVEN SOMETHING TO DO
FOR THAT NON HAM

TECHNICAL TALKS

IN YOUR LIFE

BREAKFAST

RADIO DEMOS

EMCOMM

T-HUNTING

DOOR PRIZES

VE EXAMS

GREAT PROGRAMS

ELMERS

ELECTRONICS

TECHNOLOGY

FOR INFORMATION UPDATES AND THE LATEST NEWS

VISIT OUR WEBSITE: HAMCONINC.ORG



HAMCON 2011

ARRL Southwest Division Amateur Radio Convention September 9, 10, & 11, 2011 Marriott Torrance South Bay

3635 Fashion Way, Torrance, CA 90503 1-800-228-9290 Hotel Reservation Code: HAMCON

REGISTRATION FORM

ALL ATTENDEES MUST BE REGISTERED - Please list all additional attendees
No Charge for Children under 16 when Accompanied by a Registered Adult

Call Sign: _____ Last Name: _____ First Name: _____

Address: _____ City: _____

State: _____ Zip Code: _____ Email: _____

ADDITIONAL ATTENDEES (all adults must pay admission)

NAME (PLEASE PRINT)	CALLSIGN	CHILD	ADULT
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

REGISTRATION OPTIONS	Price	Qty	Total
EARLY BIRD (Postmarked/Submitted by May 31, 2011) Convention Pin Included	\$15.00	_____ @ \$15.00 =	\$ _____
PRE-REGISTRATION (Postmarked/Submitted by Aug. 1, 2011)	\$18.00	_____ @ \$18.00 =	\$ _____
ON-SITE REGISTRATION	\$20.00	_____ @ \$20.00 =	\$ _____
Convention Pins (While Supplies Last)	\$ 5.00	_____ @ \$ 5.00 =	\$ _____
Breakfast Tickets	\$25.00	_____ @ \$25.00 =	\$ _____
Luncheon Tickets	\$30.00	_____ @ \$30.00 =	\$ _____
Banquet Tickets _____ Beef _____ Chicken _____ Vegetarian	\$45.00	_____ @ \$45.00 =	\$ _____
Excursion (Bus Tour from Hotel to The Getty Museum)	\$30.00	_____ @ \$30.00 =	\$ _____
Seating is limited - Reserve your seat now!		TOTAL: \$	_____

Mail / Make Checks Payable To:
HAMCON, INC.
P.O. Box 333
Pomona, CA 91768
For Information Updates Visit
HAMCONINC.ORG

STAFF USE ONLY

Date Received: _____ # Adults Registered _____
Children Registered _____ # Pins Ordered _____
Check # _____ Receipt # _____
Comments: _____