



CELEBRATING
40 YEARS,
1975-2015,
THE
PALOS
VERDES
AMATEUR
RADIO CLUB

QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

JUNE 2015

“When the Grid Goes Down – Managing Emergency Power”

Speaker: Marty Woll, N6VI

When: PVARC Monthly Meeting,
7:30 pm, Wednesday,
June 17, 2015.

Where: Hesse Park Activity Room,
29301 Hawthorne Blvd.,
Rancho Palos Verdes, CA 90275.
Visitors Welcome.

Also, our optional pre-meeting dinner:
PVARC members and guests are welcome to
join our speaker at a 5:30 pm no-host pre-
meeting dinner at the Red Onion Restaurant,
736 Silver Spur Road, Rolling Hills Estates.
We're always in one of the back rooms.

Developing a power plan for times when AC power is out

ARRL Southwestern Division Vice-Director Marty Woll, N6VI, is speaking at the PVARC's June 17 meeting on a timely topic, “When the Grid Goes Down – Managing Emergency Power.”

Marty's presentation will focus on:

- Learning how to determine the power requirements for electrical and electronic equipment that will be run independent of commercial mains.
- How to quantify available power sources.
- How to develop a power budget to more closely match needs and sources.
- Safety measures for portable power sources and briefly discussing alternative-energy sources.

We hope you can attend—and become ready. ■

All PVARC members invited to participate in ARRL Field Day, June 27-28, at Ridgecrest Intermediate School

It's almost time for that ultimate moment each year in North American amateur radio: ARRL Field Day happens on June 27-28.

We'll be operating 24 hours continuously at Ridgecrest Intermediate School from 11:00 am Saturday to 11:00 am Sunday using emergency power (i.e., generators).

All PVARC members are encouraged to visit our Field Day site—whether to help set-up starting at 8:00 am Saturday, operate one of the radios, serve as a logger, begin operating on HF at our Get On The Air Station, or just observe. We will have separate stations for SSB, CW, and VHF/UHF as well as GOTA.

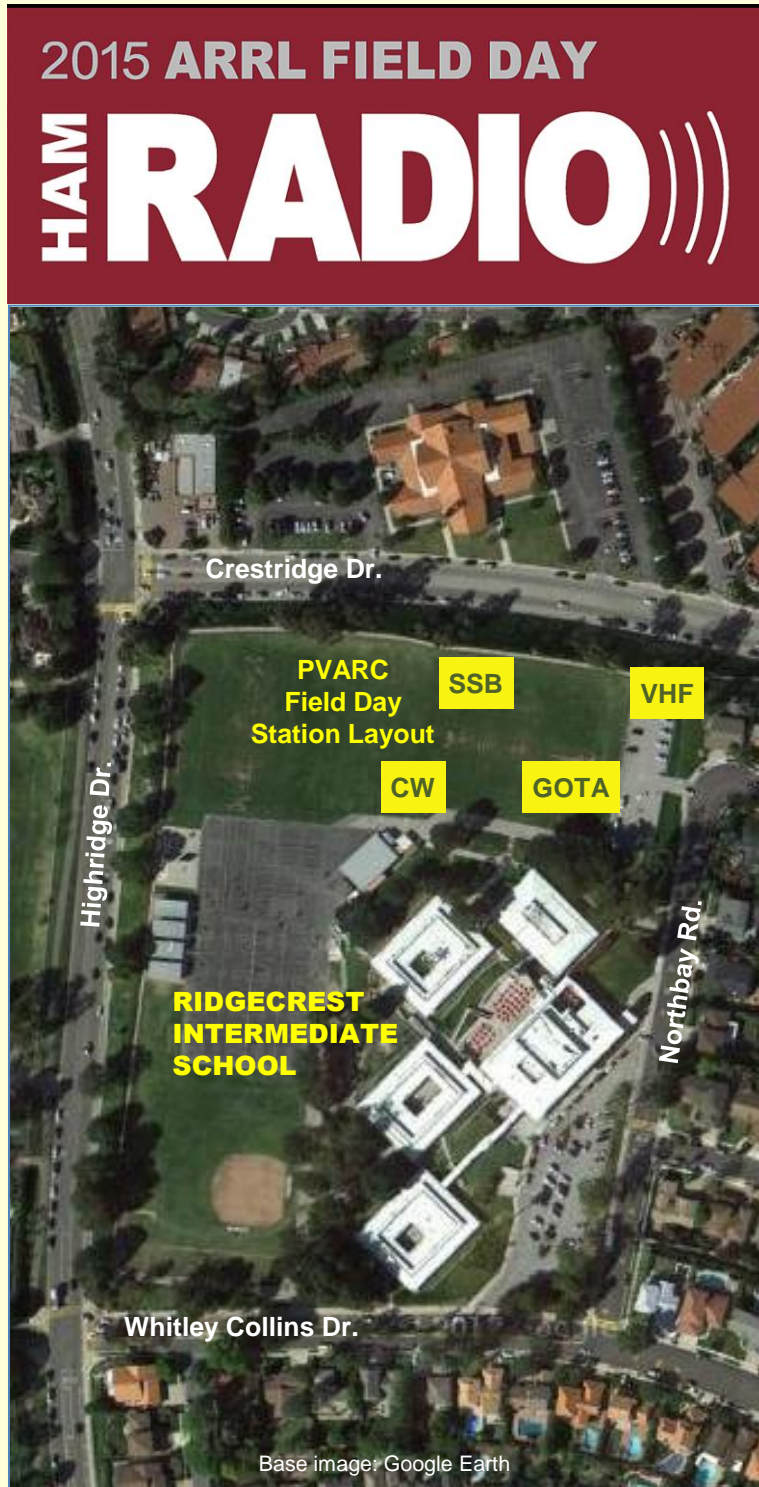
Our Chris Storey, KA6WNK, will again oversee our Get On The Air station with his Kenwood TS-440S radio. Chris is an excellent and very patient instructor, so do take advantage of this opportunity to experience HF bands regardless of your license class.

If you would like to help with our antenna setup we suggest you wear a hardhat. Gloves are also desirable.

If you come or operate at the PVARC's Field Day during overnight hours please bring a flashlight and an HT radio tuned to the K6PV repeater should local communication be necessary. Please note that smoking and alcoholic beverages are not allowed on school property.

This year we are highly confident the soccer field sprinkler system won't turn on during overnight hours. It's happened twice since we moved our Field Day site to Ridgecrest in 2011.

As always, we thank the Palos Verdes Peninsula Unified School District for allowing us use of a school site to demonstrate amateur radio's capability when the AC power goes down. ■



PVARC Short News Items

The PVARC's upcoming meeting topics...and beyond

The PVARC's July 15 meeting will be a full celebration of our club's 40th Anniversary. We hope to obtain an oral history of our club from this meeting before these memories disappear, so please attend and provide your recollections on what we did during each of our decades. There's no obligation to speak, but everyone should find this informative.

There's no club meeting in August, but we will again hold our annual family picnic at the Pt. Vicente Lighthouse on Sunday, August 16, during International Lighthouse & Lightship Weekend.

At our September 16 meeting PVARC members Blake Bartosh, KK6CZC, and Ray Day, N6HE, will present a "double-header" on two digital modes that need very little power for making long-distance contacts. Blake will discuss the new mode known as WSPR and Ray will cover the somewhat longer-established PSK31. We've never had a presentation on WSPR, so this will be new learning for most of us.

Elsewhere, the PVARC's International Lighthouse & Lightship Weekend presentation will be given next at HAMCON 2015--the 2015 ARRL Southwestern Division Convention--at the Torrance Marriott Hotel on Friday afternoon, September 11, when many convention attendees from Santa Barbara, the Inland Empire, and San Diego areas are expected to arrive at HAMCON. ■

Cox Communications to discuss its disaster plans on June 18 at Hesse Park

The public is invited to hear Cox Communications discuss their disaster and back-up plans for Cox's Peninsula cable system at 7:00 pm, Thursday, June 18, in Hesse Park's John McTaggart Hall.

This presentation is part of the City of Rancho Palos Verdes Emergency Preparedness Committee's ongoing program enabling residents to learn more about public utility network and emergency plans for the Peninsula cities in the event of an overwhelming disaster.

Although this program is organized by the City of Rancho Palos Verdes, residents of all cities are welcome to attend and ask questions following Cox's presentation.

Previous presentations in this series have been from California Water Service Co., Southern California Edison, Southern California Gas Co., and Verizon Communications (landline services including FiOS.) ■

Four new hams licensed, three upgrade, at PVARC's latest test session

Something unusual happened at the PVARC's May 25th Volunteer Examiner test session—there were fewer Technician licenses earned than advanced licenses.

Attendees at our May 25 testing earned one Extra class license, four General licenses, and two Technician licenses. Among those upgrading to General class was our own member Kel Vanderlip, KK6MNS, who subsequently made his first HF contacts from his home station.

Serving as the Volunteer Examiners at this session were Bill Leighton, KG6WVF; Curtis Jones, AE6CJ; Dan Colburn, W6DC; Diana Feinberg, AI6DF; and Ray Day, N6HE. Dave Scholler, KG6BPH, was the coordinator.

Our next test session is scheduled on Saturday, August 8, at Hesse Park following the July 25 and August 1 license classes taught by Walt Ordway, K1DFO. ■

The last words on last month's topic: Microphones

By Bob Sylvest, AB6SY

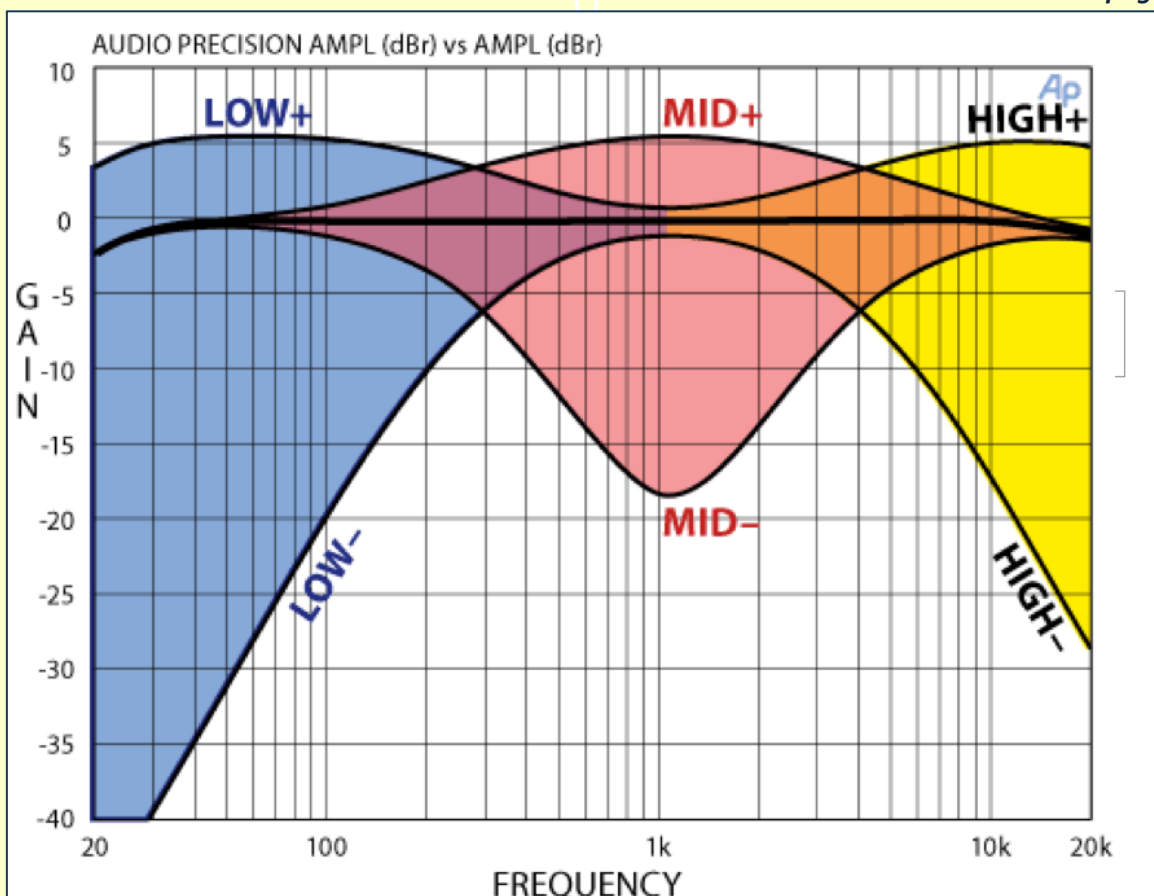
In a last-minute rush to complete my microphone presentation at last month's PVARC meeting, I glossed over a couple points that might be worth mentioning. The **QRO** editor has kindly allowed me a few words here to complete the story.

After talking about the different types of microphones (carbon, crystal, condenser/electret, ribbon and dynamic types) we took a look at various ways to tailor the signal of any microphone, once it had done what microphones all do: convert sound energy into varying voltage electrical patterns. What one does with these electrical pattern to feed the radio's input circuitry can "make or break" a clean transmission.

The two most widely used controls to achieve a desired sound are equalization and compression. Let's take these topics in that order.

We are all familiar with the tone controls on our car radios or home audio equipment. There are usually only two: a bass and a treble control. Many HF rigs have bass and treble input adjustments that adjust the sound power over a range of frequencies as shown in the figure below. This figure also shows a midrange adjustment, which all by itself might be very useful, and for two important reasons: the human voice is confined to the 300-3000 Hz range, so the "mid" adjustment addresses the main voice frequencies well, and, secondly, the electronics of most radios cut off the received audio below 300 and above 3000 Hz.

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More about last month's meeting topic: Microphones

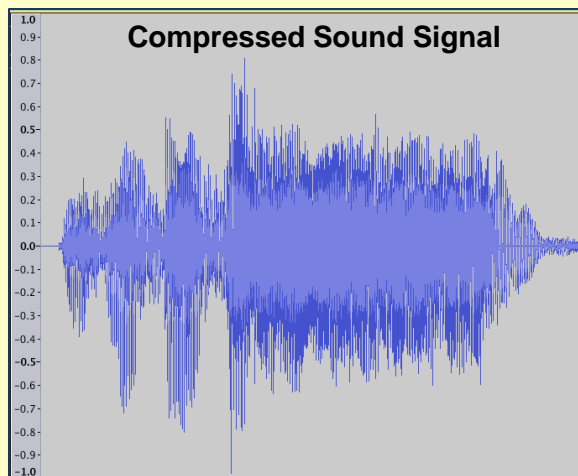
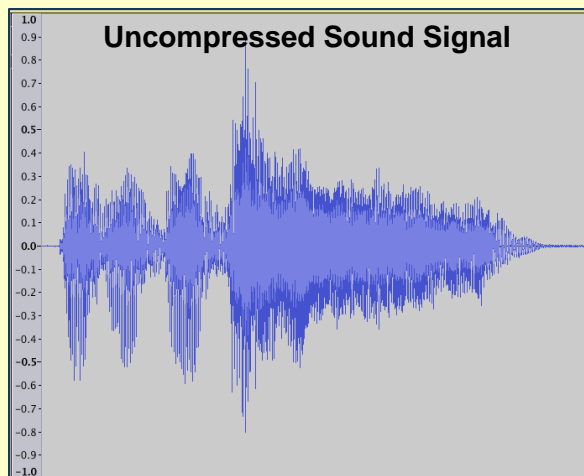
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So why even worry about the lower and higher frequencies? Well, the lower frequencies are where sound richness occurs, emphasizing the sounds of your own voice that resonate through your nasal cavities and to your ears. The upper frequencies are where articulation subtleties are identified. The difference between a "Shhhhh" sound and a "Ssssss" sound (try it) are in the 3000-7000 Hz range. So amplifying the signal in those frequencies can give clarity and crispness to the transmitted signal, even if the receiver only partly reproduces it. That is why so-called "DX elements" in some microphones are useful: they have a higher gain in those clarifying frequencies and the resulting radio signal punches more clarity through to the receiver, especially in the presence of QRM (man-made interference) or QRN (atmospheric interference).

A step up from a simple tone control is an equalizer--a series of multiple, narrow-band tone controls, each with the ability to selectively amplify or attenuate a narrow frequency range, say a few hundred Hertz. I'll not say much more about it, but many higher end transceivers (generally those costing over \$1,500) have multiple band input equalization. My Flex 3000, for example, has a 10-band input sound equalizer built in.

The second major sound-altering technology is compression (or its sister, expansion). Compression is short for "dynamic range compression" and simply means that the volume of loud sounds is reduced and the volume of quiet sounds is amplified. The differences are minimized. Usually there is a threshold above which loud sounds are reduced and another threshold below which quiet sounds are boosted.

The two sound signature figures below show an unaltered rendition and a compressed version of the first four sounds from *Beethoven's 5th Symphony*, "dit dit dit DAH" (or S T in code). Notice how the total amount of sound energy, i.e., the total amount of blue ink, is greater in the compressed signal. The maximum sound was actually reduced by the compression, but the minimums were increased.



Many hams watching their S-meters during SSB transmission (when there is no carrier to keep the needle hanging toward the high end) get carried away with the S-meter needle movement, thinking the more time the meter stays to the right, the more power they are putting out. They mistakenly assume that increased output translates to a better signal. And it does, up to a point. Beyond a certain level of compression, though, the signal loses clarity and starts to sound "duck-like" or as if you are speaking into a plastic cup. If you came along as a CB operator first, as I did, you probably remember hearing a lot of this sort of thing on AM, with splatter onto adjacent channels a very real problem.

So, while equalization and compression used properly can significantly enhance your intelligibility and overall transmission quality do realize that any good thing, taken to excess, can have the opposite effect. ■

Need a patch? New PVARC patches are here

If you've been waiting to buy a club patch for a hat, soft-side bag, shirt, jacket or whatever our new batch has arrived with higher-resolution stitching.

These patches are available for \$4 each. If you wish to purchase one (or more) they will be available at all our meetings or by contacting Dave Scholler, KG6BPH, at 310-373-8166 (email jdavidscholler@hotmail.com.) If you order a PVARC club jacket one of these patches is included and sewn onto the jacket's left front. ■



The new PVARC patches (**above**) have brighter thread colors and higher-resolution stitching compared to our previous batch of patches, shown **below**.



◆ PVARC's financial report is available upon request to any member.

Palos Verdes Amateur Radio Club

An American Radio Relay League Affiliated-Club

Board of Directors:

President	Diana Feinberg, AI6DF
Vice President	Mike Caulfield, AF6VT
Treasurer	Peter Landon, KE6JPM
Secretary	Laura Behenna, KK6BFI
Directors	Clay Davis, AB9A, Ray Day, N6HE

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K6PV QSL Manager	Jeff Wolf, K6JW
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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.

Repeaters (Open, though often listed as "Closed"):

Club: K6PV, 447.120 MHz (-), PL 100.0, CTCSS
"PV-West": K6IUM, 449.980 MHz (-), PL 173.8, 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— *The Pt. Vicente Lighthouse photographed on a June afternoon.*

PHOTO: DIANA FEINBERG, AI6DF

PVARC's antenna tower trailer re-finishing was much more than just a new coat of paint

We are extremely grateful to our 2009 and 2010 President Joe Pace, NZ6L, for his comprehensive efforts to re-finish the PVARC's antenna tower trailer during April and May 2015. Joe completely oversaw this project and personally performed many additional steps to ensure our trailer stays in excellent condition.

Joe reports on what he did besides coordinating the trailer frame re-coating:

"1) The wheel hubs were sandblasted, primed and enameled. The bearings were degreased, inspected and found to be in good shape. I repacked them with high-temp wheel bearing grease, with new seals. The bearings had been packed with normal grease and had single-lip seals -- replaced with double-lip seals, and new cotter pins.

2) The wheel hubs are unusual and the original manufacturer is no longer in business -- I was able to find seals from Applied Industrial Technologies (used to be King Bearing Corp.) When the bearings are inspected and repacked in the future, the seals can be removed without being destroyed in the process.

3) The outriggers are now set-up to be stowed within the square tube channels, and have a clevis pin/retainer to hold them in either the stowed or extended position. There is no need to remove them any longer -- this will make them much easier to use, as they are very heavy. Just support them neutrally and slide them out until the second hole appears, and drop the clevis pin in and insert the retainer.

4) All of the components were sandblasted, zinc primed, and powder coated with the exception of the wheel rims, hubs, and crank handles. Those were stripped, de-rusted, buffed, primed, and enameled. There is padding (handlebar wrap) on the forward tower support platform. All wiring and lights were replaced with new LED fixtures and harnesses with dedicated ground wiring (not using frame for ground).



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BOTH PHOTOS: JOE PACE, NZ6L

PVARC's antenna tower trailer re-finishing was much more than just a new coat of paint: NZ6L explains

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5) I discovered the Tri-Ex manufacturer's data plate -- it had been hidden by an open bin that was bolted on the front. The bin was in bad shape, and I decided to leave it off. The locking storage bin has a lot of capacity, and prevents items from being inadvertently left in the open bin.

6) Added a clevis pin and retainer for securing the mast -- we haven't had a clean way of doing this. Bike wrap to pad the tower from the powder-coat and new cinch cable assembly to hold the tower firmly when transporting.

7) All fasteners were replaced with stainless steel, with rubber washers and nylon sheets to protect the powder coat from being chipped/scratched. I sourced all of the fasteners and as much of the other materials and supplies as possible from local shops (Torrance Industrial Hardware/Lovelady, South Shores Hardware, Torrance Electronics, etc.) Other items, such as lighting and cabling were from Amazon to get the best price.)

8) Brass wire-brushed the tower and applied a general top-coat of zinc galvanizing tough-up paint. Tower brackets are secured with stainless steel fasteners buffered with UV resistant nylon and rubber washers. All nuts used are stainless Nyloc.

9) Wire harnesses are shrink tubed in visible areas and where abrasion protection is needed (under the axles and in the tongue area). License plate has nylon washers to buffer the plate to the frame.

10) Wheels were cleaned, stripped, derusted, buffed, and then primed with Rustoleum metal primer and enamel top-coat. Hub covers were sand blasted, zinc primed, and powder coated. Lug bolts were brushed and left natural to be able to see the torque rating imprint on them easily. These have been torqued to 92 ft lbs. Added Milton valve stem extenders/protectors. Dents in the wheel fenders were hammered out as best I could -- they look pretty good now.



PHOTOS:
JOE PACE, NZ6L



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Joe's account of PVARC's antenna tower trailer re-finishing: much more than just a new coat of paint

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11) Detail showing the retaining cable in the stowed position: When the tower is fully lowered and nested, the carabiner at the end of this cable clips onto the bottom, outer-most support flange of the tower. Then the tower crank is tightened a few clicks to extend it and put tension on this cable. Erecting winch should be tightened a click or two to keep that cable under some tension also. No need to add additional straps as we used to need to do.

12, 13) Everything in the stowed position. Note that there is a telescoping plate on the bottom of the tower -- the tower is aligned so that when it's in the vertical position, there's about a 1/2" gap to level ground. This plate can be lowered to make contact and a square head bolt tightened to secure it. The plate is angled slightly to keep it out of the way when the tower is erected.

14) Storage box was powder coated and is now carpeted to pad tools/supplies. Nylon discharge hose is slipped over the safety chains to provide padding between the chains and the trailer finish when used. And the most important tool is there.

15) Mast is padded and attached with rubber straps. These are the original straps and are in good shape.”

Thanks again to Joe for an amazing job renovating our tower trailer to look “new” again. ■

**BOTH PHOTOS:
 JOE PACE, NZ6L**



PVARC News:

Sign-up for HAMCON 2015 by July 31 at Early-Bird Rate



HAMCON 2015, the 2015 ARRL Southwestern Division Convention, comes to town September 11-13 at the Torrance Marriott Hotel adjacent to Del Amo Center.

One need not be an ARRL member to attend--all hams are welcome. The early registration fee is just \$22 through July 31 (\$27 thereafter), but you will learn and see a lot. All registrations also include four free door prize tickets—no additional tickets will be sold, making your chances of winning a ham radio prize equal to everyone else.

HAMCON will have four tracks of interesting concurrent talks on Emergency Communication; DXing and Contesting; General Amateur and Technical Topics; and Topics for Newer Hams.

HAMCON 2015 has already completely filled its 65-booth Vendor/Exhibitor Room in the Marriott's Grand Ballroom and several adjoining rooms. You'll be able to see and touch many brands of amateur equipment, including those not sold in ham radio stores (such as Elecraft and FlexRadio, to name two).

Keynote speakers for the Saturday lunch, Saturday night banquet, and Sunday breakfast will be announced in the months ahead. Attendees at each meal will participate in a special prize drawing following the speaker's program.

You can register by completing the form shown elsewhere in this QRO issue or by visiting HAMCON 2015's website at www.hamconinc.org and download a registration or register online using HAMCON's secure PayPal link.

The PVARC is one of 14 Los Angeles County and Orange County ham radio clubs behind HAMCON 2015. We'll be operating the Information Desk during the convention and hope many of our members can devote just two hours to staff our function. ■

WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2014-2015

JAMES MAXWELL, W6JBN

CARL BARNES, AI6BA

ALLEN BINDER, KK6MNU

HENRY BREMER, KK6MNO

SCOTT HARTNETT, KK6MNM

JAMES LIAO, KK6MNT

KELVIN VANDERLIP, JR., KK6MNS

RON WAGNER, AC6RW

PAT BREWSTER, KK6KCL

LUIS CARRANZA, KK6PIN

JOSEPH ENFIELD, KK6PIO

CHRIS SIOURIS, KK6PRU

SUSAN SIESS, KK6QLY

GARY FORISTER, N6HMR

TREVA FORISTER, N6HMS

PATRICK GARVEY, K6PDG

DAVID HARMON, KE6OJN

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JAMES NADAL, WA6RYA

ENDAF BUCKLEY, KG6FIY

DARIN JAMES, KK6QLW

ANTHONY BURNS, KK6SPH

KATHY HAYNES, KK6SPG

ROBERT MILLARD, KE6JI

DAISY MILLARD, (XYL) KE6JI

J. BRANDLIN, KK6TXM

THOMAS BACALJA, KK6ULM

GREG LUND, AI6IV

CANDACE KAWAHARA, KK6ULN

TIM MEADOWS, KK6ULL

As we prepare for 2015 Field Day, the PVARC's "DX members" Ernst and Ann Willert field-operated at a special four-day event honoring Germany's 90 years in the IARU

The PVARC's two "DX members" in Germany--Ernst (DK3FF/N6IDN) and Ann (DJ0IX/N6GVP) Willert--sent us these photos showing them operating at a four-day summer fest near Bonn celebrating Germany's 90th anniversary as a member of the International Amateur Radio Union. (For those who didn't already know, in 1984 Ann became the first woman to serve as PVARC President.)

Their German special event station had two very impressive 70' pneumatically-operated masts, one for an HF 5-element yagi and the other for multi-mode VHF/UHF including amateur TV and microwave bands. ■

ALL PHOTOS: COURTESY OF ERNST AND ANN WILLERT



Above: The Willerts--Ernst, DK3FF/N6IDN, and Ann, DJ0IX/N6GVP--shown wearing their PVARC badges at a recent German ham summer fest.

Center left: An F4 Phantom jet drag chute given to Ernst after he stopped flying was used as a canopy; in the background is the 70' HF pneumatic mast.

Bottom left: Ann operates CW with a Bencher key in the HF tent.

Bottom right: The special event's VHF/UHF/microwave antenna array, with VHF and UHF yagis, ATV, club repeater, and ham broadband net antennas all atop a 70' pneumatic mast.



Support ARRL efforts for H.R. 1301 to allow reasonable antennas where currently restricted by CC&R's

From the ARRL website

The Amateur Radio Parity Act of 2015 -- H.R.1301 -- has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep [Adam Kinzinger](#) (R-IL) introduced the bill on March 4 with 12 original co-sponsors from both sides of the aisle -- seven Republicans and five Democrats.

HR 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the [PRB-1](#) federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

ARRL members are urged to contact their US House members and ask them to sign on to the bill as a co-sponsor. We recommend sending the letter to your member of Congress to:

ARRL

Attn: HR 1301 grassroots campaign

225 Main St

Newington CT 06111

A draft copy of a letter you may send to your House of Representatives member can be found at: <http://www.arrl.org/files/file/HR%201301/1301%20-%20draft%20letter.doc>. Please note: Do not address this letter to either of your U.S. Senators as HR 1301 is currently legislation pending in the House of Representatives, not the Senate.

ARRL Legislation

HR 1301: Let's Get it Done.

Show Your Support for HR-1301

The Amateur Radio Parity Act of 2015

▶ [Learn More](#)



Above: Screenshot from ARRL website, www.arrl.org

Palos Verdes Amateur Radio Club 2015 Calendar

January							February							March							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28	19	20	21	22	23	24	25
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May							June							July							August						
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24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	23	24	25	26	27	28	29	

September							October							November							December							
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27	28	29	30				25	26	27	28	29	30	31	29	30						27	28	29	30	31			

2015 Major Contest Dates

- ARRL ■ CQ Magazine and Other
- Jan. 23-25: CQ Worldwide 160-Meter (CW)
- Jan. 24-25: ARRL January VHF Sweepstake
- Feb. 13-15: CQ Worldwide RTTY WPX
- Feb. 20-22: ARRL DX (CW)
- Feb. 28: North American RTTY QSO Party
- Feb. 28-29: CQ Worldwide 160-Meter (SSB)
- Mar. 6-8: ARRL DX (SSB)
- Mar. 27-29: CQ Worldwide SSB WPX
- May 29-31: CQ Worldwide CW WPX
- Jun. 13-14: ARRL June VHF Contest
- Jun. 27-28: ARRL Field Day
- July 11-12: IARU World Championships
- Jul. 18-19: CQ Worldwide VHF
- Jul. 18: North American RTTY QSO Party
- Aug. 1-2: ARRL UHF Contest
- Sept. 12-13: ARRL September VHF Contest
- Sept. 25-27: CQ Worldwide RTTY DX
- Oct. 3-4: California QSO Party
- Oct. 23-25: CQ Worldwide SSB DX
- Nov. 7-8: ARRL Sweepstakes (CW)
- Nov. 21-22: ARRL Sweepstakes (SSB)
- Nov. 27-29: CQ Worldwide CW DX
- Dec. 11-13: ARRL 10-Meter Contest
- Dec. 27-28: Worldwide Iron Ham Contest

 Club Meeting
 PVARC Public Service
 PVARC Ham License Class

PVARC Nets

Tuesdays at 7:30 pm on K6PV, 447.120 MHz (-), PL 100.0, and 144.910 MHz, Tone Squelch, PL 156.7

PVARC Meetings & Meals

Meetings 7:30 pm **3rd Wednesdays** except August and December at Fred Hesse Park, 29301 Hawthorne Blvd., Rancho Palos Verdes. Guests welcome. A no-host dinner at 5:30 pm before club meetings is held at the Red Onion Restaurant, 736 Silver Spur Road, Rolling Hills Estates.
3rd Sunday in August: Annual family picnic at Pt. Vicente Lighthouse.
December 10: Holiday dinner. Ports O'Call Restaurant, San Pedro.

Major Ham Radio Conventions

- Apr. 17-19:** International DX Convention, Visalia, CA
- May 15-17:** Dayton HamVention
- Sept. 11-13:** HAMCON 2015/ARRL Southwestern Div. Convention, Torrance Marriott Hotel

PVARC Public Service Events

- Apr. 26:** Ridgecrest Int. School 5K
- Aug. 8:** Rolling Hills Estates "Hills Are Alive" 5K/10K
- Sept. 7:** L.A. Harbor "Conquer the Bridge" Race
- Sept. 26:** RAT Beach Bike Tour
- Nov. 14:** P.V. Half-Marathon/10K

PVARC HF Operating Events

- Feb. 25-**
 - Mar 1:** Islands On The Air DXpedition, Catalina Island;
- June 27-28:** ARRL Field Day;
- Aug. 14-16:** Intl. Lighthouse Weekend, Pt. Vicente Lighthouse

PVARC Ham License Classes

- Fred Hesse Park (Fireside Room), 29301 Hawthorne Blvd., Rancho P.V.
- Feb. 21 & 28; May 2 & 16; July 25 & Aug. 1; 4th Qtr. TBA**



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

**NEW MEMBER &
 MEMBERSHIP RENEWAL FORM**

NEW: _____ **RENEWAL:** _____ **MEMBERSHIP DATE:** _____

Last Name: _____ **First Name:** _____ **Spouse:** _____

Street Address: _____

City: _____ **Zip:** _____

Phone: Home _____ [] **Work** _____ [] **Cell** _____ []
 (please indicate [x] which number(s) [limited to two] you would like included in the PVARC roster)

Email address: _____

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

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

Other Amateur Radio Groups You Belong To _____

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.**

In applying for or renewing my membership in the Palos Verdes Amateur Radio Club, I agree to abide by the Club's constitution and by-laws (available on-line at: <http://www.palosverdes.com/pvarc/constitution.htm> or upon request.

Signature: _____ **Date:** _____

Family Member Signature: _____ **Date:** _____

Tell your friends and relatives about the PVARC's July-August 2015 Technician and General license classes



Whether for emergency communication, communicating around the world, or learning a bit about electronics, there's nothing else like amateur radio (also known as "ham radio"). Amateur radio operators have long provided the communication "when all else fails" during disasters. Please tell your friends and relatives that with a short course, they can join the over 710,000 men, women, and children in the United States from all walks of life who are licensed to operate ham radios.

Two Free Amateur Radio Courses

FCC **"Technician"** course (entry level)

FCC **"General"** course (2nd level)

Each course is 2 sessions

The next sessions are on July 25 and August 1, 2015

Technician 9:30 AM to 1:45 PM both Saturdays

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

FCC tests will be 10:00 AM to Noon on Saturday, August 8, 2015.

The Palos Verdes Amateur Radio Club will make a brief presentation at 9:30 AM at the start of the July 25 Technician class on how to get further involved with amateur radio.

The location is Fred Hesse Park, 29301 Hawthorne Blvd., Rancho Palos Verdes.

Confirm your attendance to Walt, K1DFO at waltordway@juno.com

No fee for either course; taking the FCC Test is \$15. Optional Material (sold at cost):

- Gordon West book with all the FCC test questions,

\$22 for the Technician, \$26 for the General;

- Copy of PowerPoint charts: \$20 for the Technician, \$20 for the General.

For courses sponsored by the Palos Verdes Amateur Radio Club, students thru grade 12 who also pass their examination at a PVARC test session will, upon application to the Club, be eligible for reimbursement up to a maximum of \$50 to cover the cost of materials and the examination fee.

Everyone who obtains their first ham radio license through a PVARC test session, regardless of age, will receive a free membership in the Palos Verdes Amateur Radio Club for the remainder of the current calendar year.

For more information contact Walt, K1DFO, at waltordway@juno.com



HAMCON 2015 2015 ARRL Southwestern Division Convention

September 11-13, 2015
Torrance Marriott South Bay Hotel
3635 Fashion Way, Torrance, CA 90503

Convention Registration Form

Visit us at: www.hamconinc.org/

All attendees over 16 years old must have a separate paid registration; no charge for registered children under 16 when accompanied by paid Adult registrant. Children under 16 will receive different color ID.

Call Sign: _____

Last name: _____

First name: _____

Street or mailing address: _____

City: _____

State & ZIP Code: _____

E-mail address: _____

Phone: _____

Additional Attendee #1

Call Sign: _____

Adult: Child:

Last name: _____

First name: _____

Additional Attendee #2

Call Sign: _____

Adult: Child:

Last name: _____

First name: _____

Additional Attendee #3

Call Sign: _____

Adult: Child:

Last name: _____

First name: _____

Every adult Early Registrant receives a free Convention Pin or Patch (a \$5 value): # of Pins ____; Patches ____

	Per Person	x	Number	= \$ Total
Early Registration, postmarked by July 31, 2015:	\$22			
Regular Registration, Aug. 1-Sept. 13, 2015:	\$27			
Saturday Lunch** : __Chicken __Vegetarian	\$32			
Saturday Dinner** : __Chicken __Vegetarian	\$50			
Saturday Dinner** : __Beef (reflects hotel's cost)	\$58			
Sunday Breakfast** (plated meal: meat, eggs, +)	\$25			

** Each meal has a special prize drawing exclusively for attendees

Additional Convention Pins ____ or Patches ____ \$5 ea.

For discounted HAMCON room rates at the Torrance Marriott Hotel, visit www.hamconinc.org by Aug. 15, 2015; in Main Menu click on "Hotel Room Reservations"

Total Amount Paid:	
Cash	Check

Please send Registration Form and Check to:

For HAMCON staff use:
Registration received by: _____
Date received & registration #: _____
Amount received: \$ _____

HAMCON Inc.
c/o Margie Hoffman, KG6TBR
21612 Grovepark Dr.
Santa Clarita, CA 91350

Captions to photographs and other illustrations in this month's QRO

Certain software programs that convert the text of PDF files into spoken words reportedly have difficulty converting short stand-alone text items such as photo captions and text boxes. The following combines or explains all short text items in this month's QRO into a larger body of text to facilitate conversion into speech.

Page 1: The photo at upper left shows the Pt. Vicente Lighthouse on a June afternoon. The graphic at upper right is the ARRL logo.

Page 2: The photo at the bottom has the caption, "Left: A rare look at the PVARC's "Presidential Briefcase." No nuclear codes are inside but there are a few surviving records of our club's history, including the January 1976 list of Charter Members shown on the left side. (Don't ask how the stethoscope became part of the Presidential Briefcase.) PHOTO: DIANA FEINBERG, AI6DF

Page 3: On the right side are the ARRL 2015 Field Day logo and an aerial view of our Field Day site at Ridgecrest Intermediate School in Rancho Palos Verdes.

Page 5: An illustration at the bottom of the page shows the audio gain or losses across the audio frequency spectrum with adjustments to maximize speech in the mid-frequency range where human voices are.

Page 6: The two illustrations show the effect of dynamic range compression. The left illustration shows an uncompressed signal pattern with higher peaks and lower minimums while the right illustrations after compression shows lesser peaks but great minimums in the signal strength.

Page 7: The two illustrations on the left side show the new and the previous PVARC embroidered club patches.

Page 8: The top right photo shows the refinished wheel bearings and seals on our club's antenna tower trailer. The bottom right photo shows the entire tower trailer after being refinished, including replacing its rear tail lights and wiring. PHOTOS BY JOE PACE, NZ6L.

Page 9: The top right photo shows the new stainless steel fasteners with rubber washers and nylon sheets to prevent chipping and rust on the trailers new finish. The bottom right photo shows the re-finished tower trailer wheel fenders after the dents were pounded out, then cleaned, stripped of old paint, re-primed, and enamel coated. PHOTOS BY JOE PACE, NZ6L.

Page 10: The top left photo shows the telescoping plate at the base of the antenna tower on the tower trailer as part of an overall view showing the tower's resting position. The bottom left photo shows the newly-carpeted locked storage bin on the antenna tower trailer after the former open storage bin was removed due to excessive corrosion. PHOTOS BY JOE PACE, NZ6L.

Page 11: The illustration at the top left is the HAMCON 2015 logo.

Page 12: The four photos on this page about a German summer ham fest attended by our two members living in Germany have the captions, "Above: The Willerts--Ernst, DK3FF/N6IDN, and Ann, DJ0IX/N6GVP--shown wearing their PVARC badges at a recent German ham summer fest. **Center left:** An F4 Phantom jet drag chute given to Ernst after he stopped flying was used as a canopy; in the background is the 70' HF pneumatic mast. **Bottom left:** Ann operates CW with a Bencher key in the HF tent. **Bottom right:** The special event's VHF/UHF/ microwave antenna array, with VHF and UHF yagis, ATV, club repeater, and ham broadband net antennas all atop a 70' pneumatic mast.

Page 13: The photo at the bottom shows the U.S. Capitol building as part of the ARRL campaign behind bill HR 1301 to allow reasonable accommodation of ham antennas in homeowner associations with restrictive covenants.

Page 14: The entire page is the PVARC's 2015 activity calendar.

Page 15: The entire page is our club membership application.

Page 16: The entire page is the announcement about Walt Ordway's next ham radio license classes on July 25 and August 1.

Page 17: The entire page is the registration form for attending HAMCON 2015, the 2015 ARRL Southwestern Division Convention at the Torrance Marriott Hotel during Sept. 11-13, 2015.