



QRO

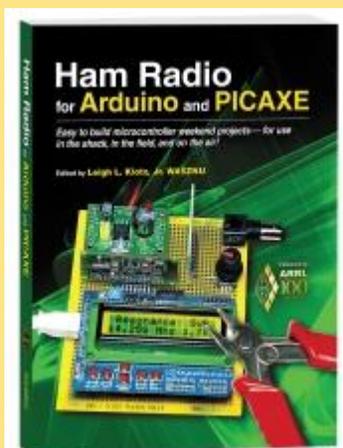
THE MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

JULY 2014

Using inexpensive PICAXE, Arduino, and Raspberry Pi microprocessors for ham radio applications...and more

One of the most fascinating new areas in amateur radio is applying very low-cost micro-processors to ham equipment or controlling ham operations.

Our speaker at Hesse Park on July 16th is an expert on this. Bill Prats, K6ACJ, will discuss practical uses of PICAXE, Arduino, and Raspberry Pi with amateur radio. Bill knows what he speaks as he is co-author of the ARRL's recent book on this subject, "Ham Radio for Arduino and PICAXE." ■



"PICAXE, Arduino, and Raspberry Pi for Amateur Radio"

Speaker: Bill Prats, K6ACJ

When: PVARC Monthly Meeting, 7:30 pm,
Wednesday, July 16, 2014.
Visitors Welcome.

Where: Fred Hesse Park Activity Room,
29301 Hawthorne Blvd.,
Rancho Palos Verdes

Please note: No pre-meeting dinner at the Red Onion Restaurant this month.

This circuit board is a complete \$45 Raspberry Pi computer, including USB port.

Also at PVARC's July 16, 2014, Monthly Meeting...

- Free electronic components salvaged from PC power supplies
- Opportunity to briefly describe your ham activities
- Drawing for a \$25 Ham Radio Outlet gift certificate

Our July 16th meeting will have some free electronic parts available for any member to take. Jerry Kendrick, NG6R, donated these components salvaged from numerous computer power supplies. In particular, there are many small 12-volt fans that might be suitable for externally cooling radio equipment. The boards from these power supplies also have components of potential interest to some.

At the start of this month's meeting we'll again let everyone introduce themselves and optionally briefly mention their recent activities. We know there are months when each of us has no time for ham radio, work/family issues take precedence, or maybe there's nothing we'd like to share.

We'll also hold our monthly drawing for a \$25 Ham Radio Outlet gift certificate at the meeting's end. All who joined or renewed their PVARC membership in 2014 are automatically entered in the drawing and the winning name drawn must be present. Ralph, KJ6ZYD, won the HRO gift certificate at our June meeting after the first nine names drawn were not present.

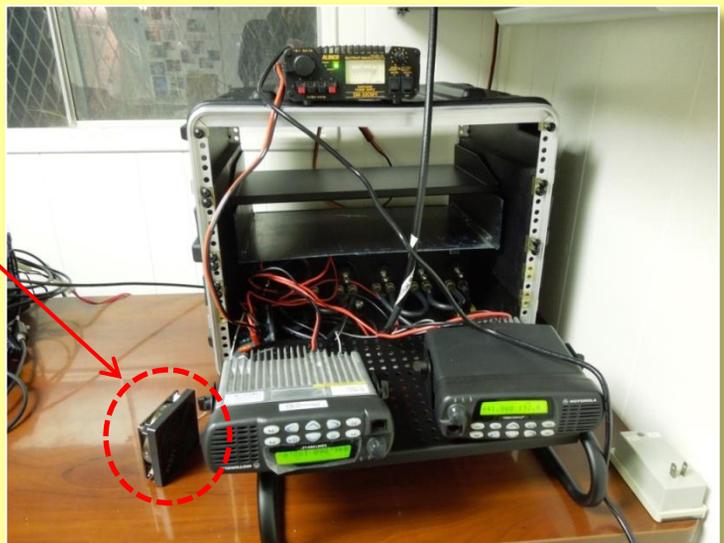
This Month at Elmer's

Elmer's Corner won't be held at this month's club meeting due to audio-visual and video equipment being set up for our speaker's presentation.

Look elsewhere in this **QRO** issue for a "substitute" Elmer's Corner tip from a Swedish ham. He very cleverly eliminated the need for external speakers with QRP, HF, and VHF/UHF mobile radios that have very small "tinny" top-mounted speakers—especially when operating outdoors. You never know what inexpensive ham radio items you can find at The Home Depot, Lowes, or Ace Hardware!

Corner

Many used 12-volt fans such as this will be available for free at our July 16 meeting. The small computer fan shown here cooled the heat sink of the left-side Motorola radio used for our 440 MHz porta-peater transmitter during the 2013 Palos Verdes Half Marathon.



Today's "one word of advice" for graduates isn't "Plastics"

By Diana Feinberg, AI6DF
PVARC President

It's been 47 years since the 1967 motion picture *The Graduate* with Dustin Hoffman exposed us to that memorable "one word of advice" for a new college graduate's future: "Plastics."

While mentioned then in a fictional context, "plastics" actually enjoyed a great real-world run over the next 40 years, finding its way deeper into our lives by replacing glass, ceramic, metal, or paper materials in products we use.

Plastics have also made their way into a lot of ham radio products since 1967—and into a lot of landfill waste as well. But all things considered and with a drum roll, today's cinematic and real-world "one word of advice" to new graduates and ham radio operators alike should now be: "Software."

It's safe to declare "software" has made far more changes in amateur radio practices than hardware during the past few decades.

"Software" is now following "plastics" in reducing some needs for glass, ceramic, metal, and paper—and even plastic itself. Consider in no particular order what software does for ham radio in 2014 (vs. in 1967):

- Now "defines" some radios (SDR), completely or partially
- Enables radio programming and rig control
- Handles logging
- Handles contest scoring, ham radio awards
- Manages QSL'ing
- Runs DX cluster and spotting networks
- Encodes/decodes digital communications (RTTY, PSK-31, CW, MT-63, others)
- Enables rapidly finding/exchanging information and photographs with other hams via email, websites, other media
- Quickly models or analyzes antennas, other electronic components
- Allows easily designing electronic circuits
- Teaches amateur radio principles and CW, gives practice test exams

- Allows remote control of amateur stations from anywhere (your station or someone else's)
- Allows using a PC, tablet, or low-cost microprocessor to interface with compact circuit boards that substitute for expensive discrete test devices such as oscilloscopes, spectrum analyzers, battery analyzers, signal generators
- Enables producing and viewing ham radio publications in digital formats—no paper required. (In fact, you are doing this right now!)

All of which brings us to our club's July 16th meeting topic: using inexpensive readily-available microprocessors and microprocessor boards for ham radio projects (and more).

Several PVARC members are known to have built ham radio devices with these low-cost microprocessors. For example, Dale N6NNW used a Raspberry Pi to build a SignalLink™ equivalent digital interface at about half the cost for MT-63 2K NBEMS messaging. Mel K6SY recently showed the Southern California DX Club his tiny Raspberry Pi "computer" that controls a complex DX cluster packet system alerting users when needed DX entities are heard on the air. A dedicated PC formerly ran this network.

Imagination will only lead to more uses for inexpensive microprocessors in our daily lives. But they require programming—and interfacing with other software and physical devices—to do their jobs. That's where software knowledge is essential, along with how to use other software ham radio relies upon.

If "software" is indeed the new "one word of advice" for graduates and hams, "software" might become ham radio's long-sought common denominator with the youthful new operators we so anxiously seek.

In the meantime, we do have two friendly words of advice regarding our July 16th club meeting: "Be there." ■

2014 Field Day Re-cap

No lawn sprinklers overnight = better PVARC Field Day score in 2014 and a great event, despite propagation

Field Day Year * Indicates the lawn sprinklers turned on overnight	(A) K6PV (as a 2A Station) Total Points	(B) K6PV Rank, of U.S. & Canada Field Day stations, All classes	(C) K6PV Rank, among all 2A stations in ARRL SW Division	(D) K6PV Rank, of all 2A stations in LAX Section
2014	4,932	???	???	???
2013*	4,248	331 st of 2,548 (top 13% of all Field Day stations)	5 th of 26	1 st of 5
2012	5,188	259 th of 2,617	5 th of 24	1 st of 8
2011*	4,492	341 st of 2,632	6 th of 24	1 st of 5
2010	5,468	219 th of 2,617	5 th of 31	1 st of 8
2009*	3,930	391 st of 2,603	9 th of 27	3 rd of 7
2008	4,160	332 nd of 2,409	4 th of 27	1 st of 9
2007	3,216	511 th of 2,331	6 th of 28	2 nd of 7
2006	5,242	223 rd of 2,169	4 th of 30	2 nd of 5
2005	6,216	162 nd of 2,199	3 rd of 32	2 nd of 8
2004	7,118	126 th of 2,242	3 rd of 30	2 nd of 7
2003	6,192	126 th of 2,079	4 th of 37	3 rd of 8
2002	6,246	194 th of 2,099	3 rd of 28	1 st of 7

The PVARC's 2014 Field Day score totaled 4,932 points, a 16% gain over 2013 when Ridgecrest Intermediate School's soccer field sprinkler system mysteriously turned-on overnight.

While our tents weren't pounded with water this year during the overnight hours, HF propagation on Saturday, June 28, was definitely a problem.

A vast thunderstorm belt in the Midwest and Southeastern states created severe noise affecting our SSB "search and pounce" strategy on 20- and 15-meters during Field Day's first 12 hours. We heard many loud stations in the Midwest and South calling CQ, but they couldn't hear K6PV or other stations answering.

These high-noise conditions resulted in several PVARC operators commenting that they hadn't observed so many stations requesting repeats of Field Day contact information. SSB exchanges that would normally require 15 seconds to complete were instead taking a minute or more—if at all.

Our CW station repeatedly called CQ on 15-meters after Field Day started at 1100 hours Saturday—and with few replies we wondered where was everyone else. It soon became obvious FD stations in much of the country just couldn't hear above the noise. ■

2014 Field Day Re-cap

PVARC's 2014 FD QSO count increased sharply on 40-, 15-, and 6-meter SSB—plus a satellite contact worth 100 points

This year's 16% increase in Field Day points for K6PV largely came through much stronger results on SSB, as shown in the table below. We did very well on 40- and 15-meter SSB, along with significantly more contacts at our VHF/UHF and GOTA stations. Chris Storey, KA6WNL, not only oversaw our GOTA station this year but also made a satellite contact earning us another 100 points.

The PVARC's SSB station had a slow start Saturday with our "search & pounce" strategy not working due to atmospheric noise in the eastern U.S. Just when things were looking bleak, Bill Pomeranz KB6FB came for his 11:00 pm Saturday to 3:00 am Sunday stint at the SSB station. Suddenly the noise began dropping and Bill's contesting skills were making 60+ QSO's per hour. Our totals started rising sharply overnight. Bob Closson W6HIP took over at 3:00 am Sunday, with Clay Davis AB9A and Peter Landon KE6JPM doing a "fast and furious" wrap-up on 15-meters before Field Day ended at 11:00 am Sunday.

Field Day QSOs	K6PV -- CW				K6PV-- SSB / FM			
	2014	2013	2012	2011	2014	2013	2012	2011
Band	2014	2013	2012	2011	2014	2013	2012	2011
160m	--	--	--	--	--	--	--	--
80m	--	--	--	6	24	53	31	10
40m	160	206	--	179	107	27	24	17
20m	208	209	319	203	241	297	310	198
15m	180	167	389	256	211	91	273	58
10m	46	--	--	71	--	3	1	18
6m	--	--	--	--	115	55	47	108
2m	--	--	--	--	11	19	29	18
1.25m	--	--	--	--	3	--	--	14
Other	--	--	--	--	4	5	7	--
Satellite	--	--	--	--	1	--	1	--
GOTA	--	--	--	--	46	25	--	--
Total	594	582	708	715	763	575	723	441

In another rapid Sunday morning finish Mel Hughes K6SY capitalized on a large number of 6-meter sporadic-E openings. In contrast, Saturday had been very quiet on the VHF/UHF bands.

Our CW operators Rocco Lardiere N6KN, Jerry Kendrick NG6R, and Jeff Wolf K6JW adapted to this year's band conditions and did a great job with the opportunities at hand.

This year's CW station used the club's large Mosley tri-band Yagi for the first time in years. Rocco generously donated his time earlier this year to completely refurbish this antenna, whose band traps needed extensive cleaning.

2014's Field Day just ended, but we're already excited about 2015's contest. ■

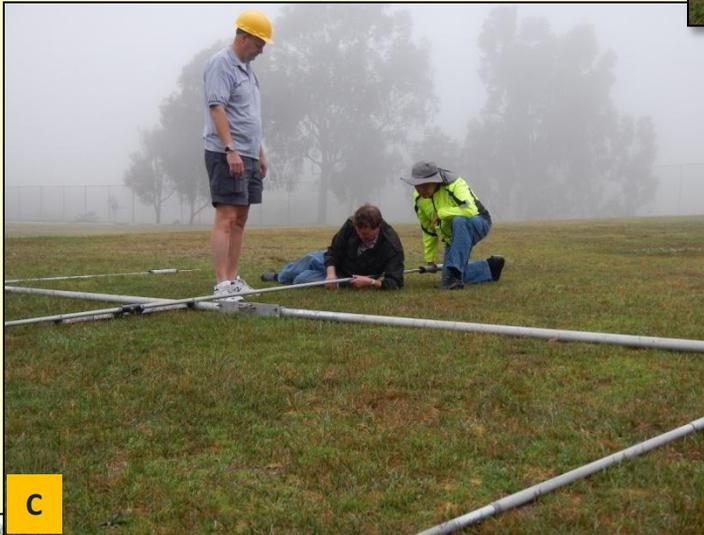
A few scenes from the PVARC's 2014 Field Day...



A



B



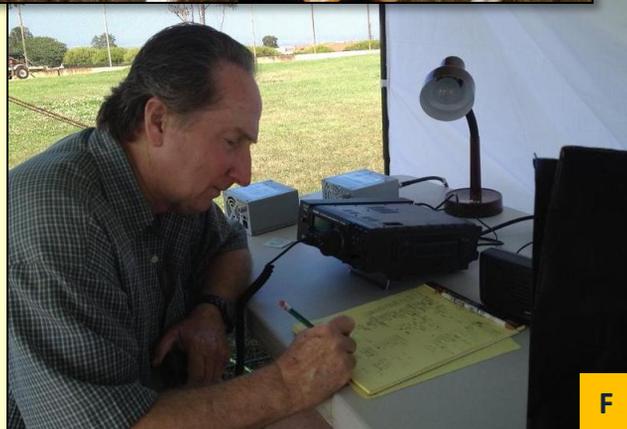
C



D



E



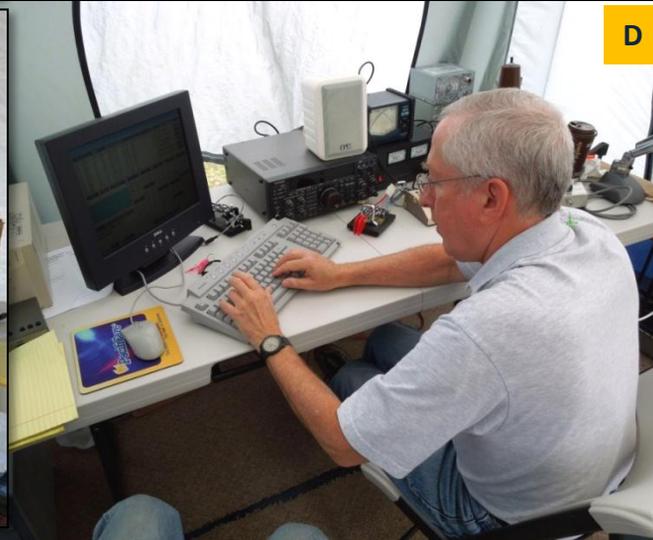
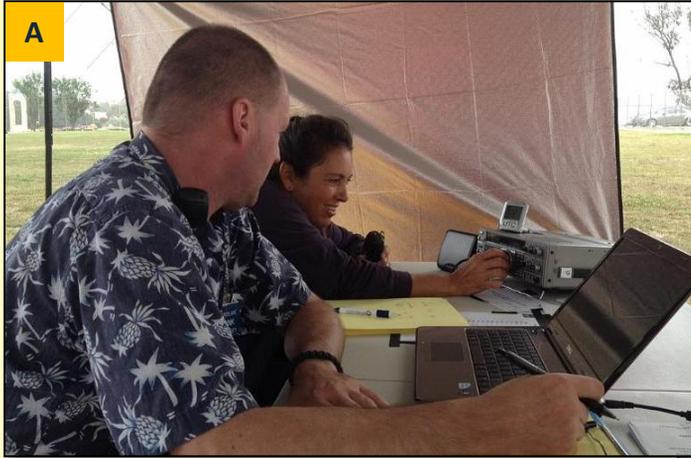
F

PICTURED ABOVE

A: The day before Field Day, Dale N6NNW hitches PVARC's tower trailer to his truck for transport to Ridgecrest school.
B: In Saturday morning mist Bob W6HIP and Clay AB9A assemble the SSB beam antenna provided by Dale, N6NNW.
C: Peter KE6JPM, Rocco N6KN, and James KK6MNT assemble our club's Mosley tri-band Yagi for CW station. **D:** Walt K1DFO winches tower into upright position. **E:** Mel K6SY operating the VHF/UHF station in parking lot. **F:** Clay AB9A operating the SSB station.

PHOTO CREDITS: A, C, & D, DIANA FEINBERG, AI6DF; B & E, JOHN FREEMAN, WW6WW; F, MALIN DOLLINGER, KO6MD

...and more photos from the PVARC's 2014 Field Day



PICTURED ABOVE

A: Laura KK6BFI operates the GOTA station with GOTA Coach Chris KA6WNK. **B:** Rocco N6KN starting up the CW station. **C:** RPV Mayor Jerry Duhovic (left) makes 15-meter SSB contacts at GOTA station with GOTA Coach Chris KA6WNK. **D:** Jeff K6JW operates Sunday morning CW on 10-meters. **E:** Jerry NG6R operating 40-meter CW at 2:30 am Sunday. **F:** Bob W6HIP operating the SSB station at 4:30 am Sunday.

PHOTO CREDITS: A & C, MALIN DOLLINGER, KO6MD; B, D, E, & F, DIANA FEINBERG, AI6DF

Thank You to Everyone Who Made the PVARC's 2014 Field Day a Great Day at Ridgecrest Intermediate School

(If you attended but didn't sign in--you might not be listed below)

PVARC Members On-Site

Laura Behenna, KK6BFI
 David Bloodgood, K6WN
 Frank Campion, N6HLR
 Ken Carr, K6HRN
 Mike Caulfield, AF6VT
 Herb Clarkson, KM6DD
 Bob Closson, W6HIP
 Dan Colburn, W6DC
 Matthew Cruse, N6MDC
 Clay Davis, AB9A
 Malin Dollinger, KO6MD
 Diana Feinberg, AI6DF
 John Freeman, WW6WW
 Dale Hanks, N6NNW
 Mel Hughes, K6SY (and K6PV trustee)
 Jerry Kendrick, NG6R
 Peter Landon, KE6JPM
 Rocco Lardiere, N6KN
 Jim Liao, KK6MNT
 Cindy Matsuda, KJ6NWO
 Jim Maxwell, W6JBN
 Walt Ordway, K1DFO
 Joe Pace, NZ6L
 Bill Pomeranz, KB6FB
 Dick Rath, WA6NSR
 Theresa Rath, WA6LKV
 Chris Storey, KA6WNK
 Norm Thorn, K6UU
 Brian Tilley, KA6UHM
 Fran Wielin, KF6QFG
 Sid Wielin, KF6QFH
 Jeff Wolf, K6JW

Other Hams and Visitors

Brian Agnew (No callsign)
 Gary Kaneshiro, KJ6HUJ
 Terri Kendrick (No callsign)
 Tina Masisie (No callsign)
 Gerry Scheneman, K6MRB
 Diane Shibata, KK6GZO
 Glenn Shibata, KJ6ATN
 Michael Vupillat, KJ6RVU

Visiting ARRL Officials

David Greenhut, N6HD, ARRL LAX Section Manager
 Dr. Kate Hutton, K6HTN, LAX Section NTS Manager
 Jim Stoker, AG6EF, ARES Section Emergency Coordinator

PVARC Members Providing Equipment

Radio Equipment, Antennas, Coax, and Computers

Clay Davis, AB9A
 Diana Feinberg, AI6DF
 Dale Hanks, N6NNW
 Mel Hughes, K6SY
 Jerry Kendrick, NG6R
 Rocco Lardiere, N6KN
 Peter Landon, KE6JPM
 Chris Storey, KA6WNK
 Jeff Wolf, K6JW

Generators

Bob Closson, W6HIP
 Dan Colburn, W6DC
 Dale Hanks, N6NNW
 Mel Hughes, K6SY
 Jerry Kendrick, NG6R
 Walt Ordway, K1DFO
 Joe Pace, NZ6L
 Norm Thorn, K6UU
 Jeff Wolf, K6JW

Canopies, Tents, and Furniture

Diana Feinberg, AI6DF
 Mel Hughes, K6SY
 Peter Landon, KE6JPM
 Fran Wielin, KF6QFG
 Sid Wielin, KF6QFH

Tower Trailer Transport

Mike Caulfield, AF6VT
 Clay Davis, AB9A
 Dale Hanks, N6NNW
 Peter Landon, KE6JPM

Special thanks to the Palos Verdes Peninsula Unified School District for allowing us to use Ridgecrest Intermediate School as our site.

Visiting Elected Officials

The Hon. Jerry Duhovic,
 Mayor of the City of Rancho Palos Verdes
 Fran Wielin, KF6QFG and
 Trustee, Palos Verdes Library District

This clever audio enhancer is low cost, has no wires, great for outdoors, and stores other items during transit

QRO Editor's Note: The following article and photographs by Swedish amateur operator Dejan Petrovic, SA3BOW, appeared in the July 2014 issue of the North American QRP CW Club's **NAQCC News** (Editor: Paul Huff, N8XMS) and are reprinted below with permission. For more information on the NAQCC visit their website at: <http://www.naqcc.info/>. The simple audio enhancement shown will work with many other QRP, HF, and VHF/UHF radios that have small "tinny"-sounding top-side speakers. ■

By Dejan Petrovic, SA3BOW

Here's a non-electro gadget "add on" improving audio on the Yaesu FT-817. Some years ago I happened to notice that the sound quality was improved when holding my logbook at an angle above the FT-817 speaker. Now, after the little grey ones have had time to process it, I have capitalized on that observation. I bought an "el cheapo" 50-millimeter X 87.5° plastic sewage bend. Then I (and this is a smart move!) asked my beautiful XYL to cut off both ends and spray it with a grey-brown-green colour that I have a weak spot for. On my own I took a "bungy" from something and added shrink tube on the end to prevent "fluffing".

The photos give the other details. I am not the person to explain the cause of audio improvement. But when it is processed through the bend it becomes noticeably better. It is not just a matter of being able to use a lower setting on the volume knob. The direction adjustment feature is just another benefit and well worth the trouble on its own.

This contraption is so rigid one can shake the whole shebang. The little strap thingy? Not needed, but I am a sucker for grey-brown-green! ■



PHOTOS: DEJAN PETROVIC, SA3BOW

Our International Lighthouse Weekend Needs PVARC Members: Are You Available?

This year's International Lighthouse and Lightship Weekend on August 15-17 features our club's annual family picnic on Sunday, August 17, at the Pt. Vicente Lighthouse.

Already 350 lighthouses worldwide (including Pt. Vicente) are registered for this year's ILLW, with over 600 ultimately expected. But we also need PVARC volunteers to sign up for helping with our picnic and radio operations.

This year the PVARC Board felt it was wiser to break our picnic logistics into smaller portions that are easier to manage. By sub-dividing our food procurement, food preparation, and site setup into separate, smaller components everything should be quite manageable for all. No stress, no mess. Much like our Field Day, we intend to have all Lighthouse Weekend components come together "just-in-time."

There's no charge to attend our picnic. The PVARC will again provide all the meats and associated items, as well as plates, utensils, and beverages. We ask each family attending to kindly bring a pot luck side-dish, dessert, or other food item. No problem if you would like to bring healthy side dishes like tofu or quinoa—or a decadent dessert.

Do you have a large grill that can be brought? Or some durable folding tables and chairs? Perhaps a canopy? We'll help get any items safely between the Lighthouse area and the front gate.

Contact Diana, AI6DF, at ai6df@arrl.net or Clay, AB9A, at ab9a@arrl.net if you can assist—and regardless, we'll see you at the Lighthouse. ■

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Pt. Vicente Lighthouse during the 2013 ILLW: If you operate there at night they'll leave the light on for you.
PHOTO: AI6DF

PVARC Short News Items

The PVARC's upcoming meeting schedule is...

Just a reminder...Our club's annual family picnic at the Pt. Vicente Lighthouse on Sunday, August 17, during International Lighthouse and Lightship Weekend replaces an August meeting at Hesse Park. (See the article elsewhere in this **QRO** issue for more information about Lighthouse Weekend.)

Our September and October programs at Hesse Park are being finalized and to be announced soon. The PVARC's pre-meeting dinner at the Red Onion Restaurant returns on Wednesday, September 17. As reported, this month's pre-meeting dinner won't be held because most of the frequent participants (as well as our speaker) are unable to attend due to travel or other factors.

Free laminating of wallet-sized FCC amateur licenses will be repeated later this year by popular demand. Since our June 18 meeting additional members have asked about bringing back the laminator on another monthly meeting date.

Finally, our annual Holiday Dinner is set for Wednesday, December 10, at the Ports O'Call Restaurant in San Pedro. We'll be using the same room as last year's dinner. This event also doubles as our December meeting. Reservation information and further details will be announced in September. ■

This year's Labor Day "Conquer the Bridge" race only has the 5.3-Mile Run/Walk, no Half-Marathon

We've learned the 2014 Labor Day "Conquer the Bridge" run/walk across the Vincent Thomas Bridge above Los Angeles Harbor will only use the race's original 5.3-mile course. The additional Half-Marathon that debuted last year will not be held in 2014 due to Port of Los Angeles permitting issues.

Staging the Half-Marathon before the 5.3 mile run/walk meant longer street closures in San Pedro and on Terminal Island. The added Half-Marathon also required the PVARC's radio operators to be stationed

on the bridge and San Pedro streets at much earlier hours.

The inaugural Half-Marathon in 2013 resulted in PVARC operators arriving when the bridge's blue night lights were still on, as shown at left.

We are looking forward to providing amateur radio communication along this year's 5.3-mile route. Walt Ordway, K1DFO, again heads our radio operator team at this public service event. ■



PHOTO CREDIT: CONQUER THE BRIDGE WEBSITE, <http://conquerthebridge.com/>

PVARC Short News Items

Bill introduced in U.S. House of Representatives proposes extending PRB-1 to CC&R's, other private contracts

It's a reality: Nearly 90% of all new homes built in the U.S. every year reportedly have covenants or other restrictions to protect builder or lender interests and often the homeowners as well. These restrictions, among other things, make erecting external amateur radio antennas increasingly difficult for many hams—even if just a very modest VHF/UHF antenna mounted on a chimney or roofline.

Bill H.R. 4969, introduced in the U.S. House of Representatives on June 25, 2014, has the intent of extending “reasonable accommodation” for amateur radio antennas to properties covered by covenants, conditions, and restrictions (collectively known as CC&R's). The FCC PRB-1 rule requiring cities and states to make reasonable accommodation for amateur antennas have generally been followed, but the rule did not apply to any property with private land use restrictions such as CC&R's.

The H.R. 4969 bill has been referred to the House Committee on Energy and Commerce. As with any Congressional legislation, a bill can take many turns before it becomes law—or not, including not moving out of Committee. The bill, as introduced, mentions the long-standing role of amateur radio in emergency communication.

The ARRL is developing suggested guidelines for amateur operators to use when contacting their Member of Congress regarding H.R. 4969 and asks hams to wait for these guidelines.

To find the mailing address, e-mail address or telephone numbers for your Representative, visit the House of Representatives website at: www.house.gov/representatives/find.

The entire text of H.R. 4969, as it currently stands, may be found on the ARRL website at: <http://www.arrl.org/files/media/News/HR4969.pdf> or the House of Representatives website at: <http://thomas.loc.gov/home/LegislativeData.php?n=BSS;c=113> and entering H.R. 4969 in the Search box. The ARRL website will have additional information as it becomes available (click on <http://www.arrl.org/current-legislation>

113TH CONGRESS
2D SESSION

H. R. 4969

To direct the Federal Communications Commission to extend to private land use restrictions its rule relating to reasonable accommodation of amateur service communications.

IN THE HOUSE OF REPRESENTATIVES

JUNE 25, 2014

Mr. KINZINGER of Illinois (for himself and Mr. COURTNEY) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To direct the Federal Communications Commission to extend to private land use restrictions its rule relating to reasonable accommodation of amateur service communications.

PVARC Short News Items

PVARC receives donations of old radio publications

Our club recently received as donations various historic amateur radio books and magazine issues.

These publications came from several long-time hams who were not PVARC members, but they felt our members might have an interest in these materials dating to the 1920's and 1930's.

We're currently cataloging these publications and assessing their respective conditions. Eventually PVARC members will be able to view these works.

It's our observation that few ham radio clubs maintain libraries of amateur-related books and magazines. Stay tuned for further details. ■

Cross-band setup operating for PVARC's Tuesday Night Nets

We hope members have enjoyed the 2-meter simplex to 440 MHz repeater cross-band link enabling those near Lunada Bay, lower Hesse Park, and the Golden Cove areas to reach our club's weekly nets.

Net participants from the Peninsula's west side can use a 2-meter simplex frequency, currently 144.910 MHz, Tone Squelch, PL 156.7, to get onto K6PV's 447.120 MHz repeater frequency pair. This link is only applied during our Tuesday night nets and not active 24/7.

On most Tuesday nights our cross-band link operates from the QTH of Mel Hughes, K6SY, and Doris Hughes, K6KSY. Herb Clarkson, KM6DD, will operate the cross-band link from his QTH above Hesse Park when Mel and Doris aren't available.

As many know, 144.910 MHz is the only designated 2-meter crossband frequency allowed by Southern California's amateur 2-meter frequency coordination group, TASMA. ■

◆ 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	Malin Dollinger, KO6MD
Treasurer	Peter Landon, KE6JPM
Secretary	Mike Caulfield, AF6VT
Directors	Clay Davis, AB9A, Ray Day, N6HE

Appointed Offices:

QRO Editor	Diana Feinberg, AI6DF
Webmaster	John Freeman, WW6WW
Club Librarian	Bryant Winchell, W2RGG
K6PV Repeater Trustee	Mel Hughes, K6SY
LAACARC Delegate	Jeff Wolf, K6JW
VE Coordinator	Dave Scholler, KG6BPH
VE Liaison	Diana Feinberg, AI6DF
Net Control Operators	Malin Dollinger, KO6MD, Dale Hanks, N6NNW, Peter Landon, KE6JPM, Bob Sylvest, AB6SY, Dan Yang, K6DPY

Contacts:

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Email us: k6pv@arrl.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.

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 at dusk, July 9, 2014.*

PHOTO: DIANA FEINBERG, AI6DF

PVARC Short News Items

Updated club roster now on PVARC website

We recently updated our club roster to reflect all 2014 membership information as of June 24. Another roster update will occur later this month.

The roster is on our website at: www.palosverdes.com/pvarc/files/PVARC_ROSTER.xls as an Excel spreadsheet.

The PVARC roster is still password-protected; ask a club officer if you need the password. Please heed our request not to share the PVARC roster with unaffiliated persons or groups and not to use the roster for commercial or political purposes. ■

Interested in serving as a PVARC Net Control Operator?

We truly appreciate the services of club members who act as Net Control Operators for the PVARC's weekly Tuesday night nets. Being an NCO also enhances one's radio operating skills.

Our Net Control Operator group periodically has vacancies as incumbent NCOs move to other activities. Additionally, we have other members who might want a turn serving as a Net Control Operator.

How about you? Please let Diana, AI6DF, know at ai6df@arrl.net if you would be interested in handling our NCO duties on one Tuesday each month. Rest assured: We have backup Net Control Operators in case a scheduled operator is traveling or unavailable.

Our club's weekly nets started in 2008 with the initial Net Control Operator team of Bill Harper, WA6ESC; Denzel Dyer, KG6QWJ; Homer Meek, K6HKT; and Knut Myhre, N6BNP. A few months later Diana Feinberg, AI6DF, became the fifth Net Control Operator and served until early 2010. The other initial Net Control Operators continued until 2011 or 2012. They too are welcome to serve again as an NCO if they desire. ■

WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2013-2014

LARRY SHAPIRO, K6RO
 NICHOLAS WAGNER, KB6PL
 STEVE MARSCHKE, KK6EOS
 DEBBIE MARSCHKE, KK6EOW
 ANDREW DeCRISTOFARO, KI6BKD
 DOMINIC DeCRISTOFARO, KI6BOO
 RICHARD CARL, KF6ZRF
 DON BEAUMONT, KE6PMN
 CINDY SATTler, KK6EOZ
 DAVE HELD, WA6PHS
 RAPHAEL YOON, KJ6ZYD
 JOEL PASTOR, WJ1P
 TERRI PASTOR, W6BMD
 THOMAS BACALJA
 ERIC OLSON, KK6JPV
 JAMES MAXWELL, W6JBN
 CARL BARNES, AI6BA
 ALLEN BINDER, KK6MNU
 HENRY BREMER, KK6MNO
 SCOTT HARTNETT, KK6MNM
 JAMES LIAO, KK6MNT
 RICARDO QUINONES, KK6MNQ
 SHAWN SORBOM, KK6MNN
 KELVIN VANDERLIP, JR., KK6MNS
 RON WAGNER, KI6FHB

Palos Verdes Amateur Radio Club 2014 Calendar

January						
S	M	T	W	T	F	S
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April						
S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

July						
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

October						
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26	27	28	29	30	31	

February						
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16	17	18	19	20	21	22
23	24	25	26	27	28	

May						
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August						
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					1	2
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November						
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						1
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16	17	18	19	20	21	22
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30						

March						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June						
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

September						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- xx Club Meeting
- xx Club Net
- xx PVARC HF Operations
- xx PVARC Public Service
- xx Ham Convention
- xx PVARC Ham License Class

2014 Major Contest Dates

- ARRL
- CQ Magazine and Other

- Jan. 4-5: ARRL RTTY Roundup
- Jan. 18-19: ARRL January VHF Sweepstakes
- Jan. 24-26: CQ Worldwide 160-Meter (CW)
- Feb. 8-9: CQ Worldwide RTTY WPX
- Feb. 14-16: ARRL DX (CW)
- Feb. 22: North American RTTY QSO Party
- Feb. 21-22: CQ Worldwide 160-Meter (SSB)
- Mar. 1-2: ARRL DX (SSB)
- Mar. 28-30: CQ Worldwide SSB WPX
- May 23-25: CQ Worldwide CW WPX
- Jun. 14-16: ARRL June VHF Contest
- Jun. 28-29: ARRL Field Day
- July 12-13: IARU World Championships
- Jul. 18-20: CQ Worldwide VHF
- Aug. 2-3: ARRL UHF Contest
- Sept. 13-14: ARRL September VHF Contest
- Sept. 26-28: CQ Worldwide RTTY DX
- Oct. 4-5: California QSO Party
- Oct. 24-26: CQ Worldwide SSB DX
- Nov. 1-2: ARRL Sweepstakes (CW)
- Nov. 15-16: ARRL Sweepstakes (SSB)
- Nov. 28-30: CQ Worldwide CW DX
- Dec. 5-7: ARRL 160-Meter Contest
- Dec. 13-14: ARRL 10-Meter Contest

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 February (2nd Wed.), August and December (no meeting) 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. 4-6: Intl. DX Convention, Visalia
- May 16-18: Dayton HamVention
- July 17-19: ARRL 100th, Hartford
- Sept. 12-14: ARRL SW Div., S.Diego.

PVARC Public Service Events

August 9: Rolling Hills Estates "Hills Are Alive" 5K/10K

Sept. 1: L.A. Harbor "Conquer the Bridge" Race

Sept. 20: RAT Beach Bike Tour
Oct. 12: Mary's Promenade 5K/10K

PVARC HF Operating Events

- Feb. 19-23: Islands On The Air DXpedition, Catalina Island;
- June 28-29: ARRL Field Day;
- August 15-17: Intl. Lighthouse Weekend, Pt. Vicente Lighthouse

PVARC Ham License Classes

Fred Hesse Park (Fireside Room), 29301 Hawthorne Blvd., Rancho PV

Feb. 8 & 15; May 3 & 10; Sept. 20 & 27



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 September 2014 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 20 September & 27 September 2014

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, 4 October 2014

The Palos Verdes Amateur Radio Club will make a brief presentation at 9:30 AM at the start of the 20 September Technician class on how to get further involved with amateur radio.

The location is Fred 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 (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

(The Fine Print: The following cruise is not sponsored by the PVARC. This ad is shown solely for the convenience of our members and neither conveys nor implies any endorsement or assumption of liability by the Palos Verdes Amateur Radio Club.)

***My Pin Money Travel, LLC Announces
Its Fourth Amateur Radio Cruise
MPMT'S HAM RADIO CRUISE 4
On the Carnival Magic April 19, 2015 for 7 Days***

**The perfect gift for the “hard to buy for” person.
Great vacation with family and friends**

Planned activities onboard include seminars conducted during days at sea, working Maritime Mobile on two ship installed HF stations with DX for all licensed amateurs and all the fun of a Carnival Cruise! Special arrangements have been made with Carnival Cruise Lines for two HF operating stations and antennas.

Cruise from Galveston, Tx. To Belize, plus
Roatan and Cozumel returning to Galveston.



Only 48 cabins reserved. Book quickly - don't miss the great prices & extras!*

All prices are double occupancy and include government taxes and fees. You may book an Inside Cabin or a Balcony Cabin as part of our reserved group price until November 20, 2014.

After that date, prices are subject to availability.

(Ocean View, Cove Balcony and Suites available by special arrangements.)

DEPOSIT of \$250 PER PERSON DUE AT BOOKING in order to assign your stateroom.

*Each guaranteed stateroom also receives a \$25 onboard credit, bottle of wine and 2 tote bags.
TRAVEL INSURANCE IS OPTIONAL, BUT HIGHLY RECOMMENDED.

Cruise through Debbie Rumfield, N5DSR with My Pin Money Travel, LLC (MPMT) who can be reached at mypinmoneytravel@yahoo.com or by telephone at 832-656-0731.

This event is organized by Lance Rumfield, WD5X, in an effort to offer amateurs the ability to enjoy the rare opportunity of operating at sea while participating in a terrific vacation.

**Carnival reserves the right to add a fuel surcharge of \$9 per person per day if oil goes to \$70/barrel

**NOTE: U.S. Customs recommend all cruise passengers possess a valid
U.S. passport in order to board the ship!!!!!!**

(The Fine Print: The following cruise is not sponsored by the PVARC. This ad is shown solely for the convenience of our members and neither conveys nor implies any endorsement or assumption of liability by the Palos Verdes Amateur Radio Club.)

Details about the 2015 Ham Radio Cruise, continued

Operating Details as planned:

Two Kenwood TS-480 HX (or similar) HF mobile transceivers with two screwdriver antennas will be installed on the ship's aft railing. Stations and antennas will be on opposite sides of the ship at the stern. Bring your own keyers/phones/computers /interfaces/etc!!! (Sorry - no HF operation or external antennas of any kind will be allowed from individual staterooms, balconies, or public areas.

Houston Amateur Radio Supply has again graciously agreed to be our sponsor !!! **Thanks Dave!!!**

Personal Handi-Talkies may be used on the Carnival Magic while at sea!!!

Special permission to operate onboard the Carnival Magic has been arranged as long as proper licensing is obtained and formal agreements between Carnival and My Pin Money Travel are acknowledged and followed.

Amateur operation will be while in U.S. or international waters.

Each participating amateur will receive a copy of the authorization to operate as signed by the Captain of the Magic, Technical Coordinator, Travel Agent and the amateur!

Licensing Requirements:

If you wish to operate a station or handheld while on board, copies of the following documents must be submitted to Debbie as soon as possible as it may take up to 90 days to acquire all required documents and we must have documents submitted to Carnival before final guaranteed selling date:

- 1) Copy of valid U.S. amateur license
- 2) Confirmation of completed IARP application. Please send your paperwork, photo and monies to the ARRL immediately as this process takes time. The ARRL will forward a batch of the permits to Debbie shortly before sailing. She will forward you a copy of your permit and provide you the original IARP once on the ship.

Please consider joining us in 2015. We had a great time in 2011, 2013 and 2014 and look forward to another great event!!!!

Note: Only licensed amateurs who are participants of this limited opportunity group event will be allowed to operate amateur equipment while on the Carnival Magic.

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 top left shows the Pt. Vicente Lighthouse at dusk on July 9, 2014. The photo at bottom left shows the ARRL book co-authored by our speaker Bill Prats, K6ACJ. The photo at bottom right behind text showing our meeting details is a Raspberry Pi computer board.

Page 2: The photo at the bottom of the page has the caption, "Many used 12-volt fans such as this will be available for free at our July 16 meeting. The small computer fan shown here cooled the heat sink of the left-side Motorola radio used for our 440 MHz porta-peater transmitter during the 2013 Palos Verdes Half Marathon. "

Page 4: The table on the left side shows the PVARC's Field Day results from 2002 through 2014.

Page 5: The table on the left side shows how many QSO's the PVARC made on each band each year during Field Days 2011 through 2014.

Page 6: Six photographs from Field Day comprising this page have the combined caption at the bottom, "PICTURED ABOVE. **A:** The day before Field Day, Dale N6NNW hitches PVARC's tower trailer to his truck for transport to Ridgecrest school. **B:** In Saturday morning mist Bob W6HIP and Clay AB9A assemble the SSB beam antenna provided by Dale, N6NNW. **C:** Peter KE6JPM, Rocco N6KN, and James KK6MNT assemble our club's Mosley tri-band Yagi for CW station. **D:** Walt K1DFO winches tower into upright position. **E:** Mel K6SY operating the VHF/UHF station in parking lot. **F:** Clay AB9A operating the SSB station. PHOTO CREDITS: A, C, & D, DIANA FEINBERG, AI6DF; B & E, JOHN FREEMAN, WW6WW; F, MALIN DOLLINGER, KO6MD"

Page 7: Six Field Day photographs on this page have the combined caption, "PICTURED ABOVE: **A:** Laura KK6BFI operates the GOTA station with GOTA Coach Chris KA6WNK. **B:** Rocco N6KN starting up the CW station. **C:** RPV Mayor Jerry Duhovic (left) makes 15-meter SSB contacts at GOTA station with GOTA Coach Chris KA6WNK. **D:** Jeff K6JW operates Sunday morning CW on 10-meters. **E:** Jerry NG6R operating 40-meter CW at 2:30 am Sunday. **F:** Bob W6HIP operating the SSB station at 4:30 am Sunday. PHOTO CREDITS: A & C, MALIN DOLLINGER, KO6MD; B, D, E, & F, DIANA FEINBERG, AI6DF "

Page 8: A large photo comprising the background for this entire page shows the club's antenna trailer tower at Ridgecrest Intermediate School with the names of all Field Day participants superimposed over the photograph.

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

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 9: Two photographs at the bottom show the curved pipe which Swedish amateur Dejan, SA3BOW, used to enhance the audio from his Yaesu FT-817. PHOTOS by Dejan Petrovic, SA3BOW.

Page 10: The photo at the bottom shows the Pt. Vicente Lighthouse at night with the caption, "Pt. Vicente Lighthouse during the 2013 ILLW: If you operate there at night they'll leave the light on for you. PHOTO: AI6DF .

Page 11: The photo at the bottom of the page shows the Vincent Thomas Bridge over Los Angeles Harbor with its night lighting illuminated. PHOTO CREDIT: CONQUER THE BRIDGE WEBSITE, <http://conquerthebridge.com/>

Page 12: The illustration at lower right shows the top half of H.R. 4969's first page.

Page 15: The entire page is the club's calendar of events for 2014.

Page 16: The entire page is our club's membership application and renewal form.

Page 17: The entire page is the flyer announcing Walt Ordway's next ham radio training classes in September 2014.

Page 18-19: Both pages are a flyer announcing a ham radio cruise leaving from Galveston, Texas, next year.