



QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

MAY 2018



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Italy's Marconi Museum...and operating HF while in Italy

Don Minkoff, NK6A

Thursday, May 3, 2018

General Meeting: 7:30 pm
"What's Next?" group: 6:30 pm

Fred Hesse Community Park
29301 Hawthorne Blvd.
Rancho Palos Verdes, CA 90275
Visitors Welcome

(Please note: PVARC pre-meeting dinners at the Red Onion Restaurant have been discontinued but members are free to eat there or elsewhere on their own.)

At our May 3 meeting:

The PVARC's May 3 meeting at Hesse Park will feature Don Minkoff, NK6A, presenting his visit to Italy's Guglielmo Marconi Museum that honors the inventor of long-distance radio communication. Don will also discuss some of his low-power HF operating while in Italy.



Don was first licensed as a Novice in 1959 as WV6HYF. He was drawn to chasing DX and contesting in the early 80's but found that operating with 5W was also a fun challenge plus a quick route to winning certificates for contesting. The Heathkit HW8 was his entry into low power and portable operation in 1980. Taking a radio on camping vacations was as natural as packing a fishing rod in the Sierras or up in the Canadian Rockies. Smaller and lighter radios were built and taken on many hiking trips and even a cruise down the St. Lawrence Seaway. Don continues to be active in contesting and chasing DX but is drawn to the great outdoors, taking small, lightweight radios and antennas to mountain tops for Summits on the Air. The chance to be DX and operate in Europe plus climb a summit has resulted in a further addiction. Don holds a BA degree from Cal State University Northridge and spent 20 years in quality engineering and auditing positions in the automotive field of radio and navigation. ■

Some information from the Marconi Museum's website:

"The head office of Guglielmo Marconi Foundation is in Villa Griffone, the place where the Bolognese inventor began to develop the system of wireless telegraphy which then spread throughout the world.

Villa Griffone is located in Pontecchio Marconi, about 15 km from Bologna, Italy. The garden and the rooms of the villa are home to the Marconi Museum which is dedicated to the origins and development of radio communications. Villa Griffone is a National Monument.

A Research Center is also present inside the historical building, where researchers from the Ugo Bordoni Foundation, the University of Bologna and the same Marconi Foundation are intent on investigating in three different areas - history, research and training - making Villa Griffone a point of great interest for a wide audience."

Independent of Italy's Marconi Museum are three smaller "Marconi" commemorative sites in North America. On Cape Cod in North Chatham, MA, the Chatham Marconi Maritime Museum has Marconi's 1914 transmitter used for trans-Atlantic radio transmissions along with non-Marconi radio equipment later used for shipping and naval purposes. In eastern Canada two National Historic Sites commemorate Marconi's earliest radio stations. His first trans-Atlantic radio transmission from North America was sent on December 15, 1902, from Glace Bay on Nova Scotia's northeast coast using the call sign VAS. However, the Glace Bay site proved to be unreliable for North Atlantic radio communication. In 1905 much of Marconi's equipment moved to a new site six miles southeast of Glace Bay which Canada designated in 1983 as "The Marconi Wireless Station National Historic Site." The original Glace Bay site had been named in 1939 as "The Marconi National Historic Site" and its building today contains a small museum plus a modern amateur radio station. ■

The PVARC's upcoming meeting topics...

Our June 3 meeting program is a unique combination event. First, noted propagation expert Carl Luetzelschwab, K9LA, will speak to us via Skype from his home in Ft. Wayne, IN. Carl will discuss recent propagation conditions as we near the current solar cycle minimum...and provide predictions for the next few years. We'll have two projectors and screens to show both Carl speaking and his PowerPoint slides. Then, for this year's first installment of "Show Us Your Shack" our member Rocco Lardiere, N6KN, will present a video of his expansive ham shack with dozens of restored radios.

At our July 5th meeting Bob Brehm, AK6R and owner of Palomar Engineers, is speaking on "The Secrets of End-Fed Wire Antennas." Instead of meeting in August we hold our annual family picnic at Pt. Vicente Lighthouse on Sunday, August 19, in conjunction with International Lighthouse & Lightship Weekend.

Our September 6th monthly meeting has Tim Coker, N6WIN, speaking about "The Reverse Beacon Network" which many contesters and DXers use to check propagation conditions.

And back for an encore later in 2018....

Show Us Your Shack

We still seek four to six PVARC members to briefly (in 10-15 minutes) present their home amateur radio station, a portable ham station, or some kind of amateur radio project that fellow club members might find interesting. Have something you feel worthy of presenting at a future meeting? Contact our Vice President Ray Day, N6HE, at rayday@cox.net and let him know. ■

Other PVARC dates in 2018

- ◆ **PVARC monthly meeting at Hesse Park, McTaggart Hall**
1st Thursday each month, 7:30-9:30 pm, except in August and December
- ◆ **HF Enthusiasts Group meetings at Palos Verdes Library, Peninsula Center (Purcell Room)**
2nd Saturday each month, 10 am to Noon, except December
- ◆ **Walt Ordway, K1DFO, amateur radio license classes at Hesse Park**
April 29 and May 5; August 4 and 11; November 3 and 10; license exams Sat. after 2nd class dates
- ◆ **Field Day at Soleado Elementary School, Rancho Palos Verdes**
Saturday-Sunday, June 23-24
- ◆ **International Lighthouse & Lightship Weekend at Pt. Vicente Lighthouse**
Friday-Sunday, August 17-19; PVARC Family Picnic at the Lighthouse, Sunday, August 19
- ◆ **Public service events:** Ridgecrest Intermediate School 5K, April 29; Conquer the Bridge Run/Walk, September 3; Palos Verdes Half Marathon, November 17. TBD: RAT Beach Bike Tour.
- ◆ **PVARC Holiday Dinner: Los Verdes Golf Course, Rancho Palos Verdes**
Thursday, December 6

PVARC's HF Enthusiasts Group shows its eclectic nature

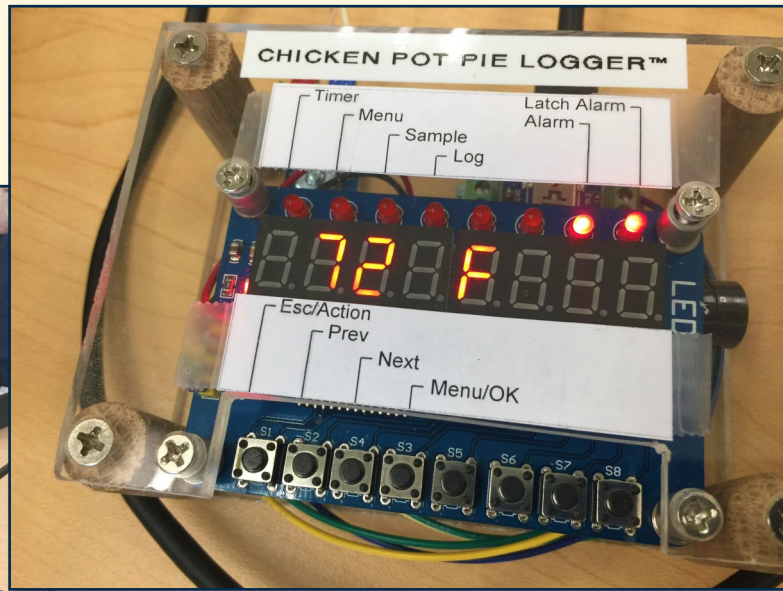
What does a frozen chicken pot pie have in common with amateur radio? Nothing really, except at our April 14 HF Enthusiasts meeting when one attendee showed a home-brew Arduino chicken pot pie logger (see photos below).

Also shown was a home-brew PACTOR modem and the impressively-thick manuals for the new FlexRadio 6600M software defined radio. Another attendee brought a meter that was capable of measuring E-Fields, H-Fields, and microwave energy.

Additional discussion focused on the new FT8 mode and QSLing—some still use paper log books!

The next HF Enthusiasts Group meeting will be Saturday, May 12, from 10:00 am to Noon in the Purcell Room of the Palos Verdes Library District's main branch near Peninsula Center. ■

Below (clockwise): Top left and top right photos show a chicken pot pie cooking logger based on an Arduino microprocessor.. Bottom right, a homemade PACTOR modem as an alternative to buying an expensive one. Bottom left, view of the meeting room with two other attendees not in the photograph.
PHOTOS: RAY DAY, N6HE



Great Study Aid for Upgrading Your Ham License

By Jerry Kendrick, **NG6R**

After many receive their first amateur radio license they are already thinking about upgrading. Motivations vary but the lure of expanded band/mode privileges plus challenges and satisfaction of achieving another knowledge rung have to be high on the list.

There are many approaches to preparing for the formidable tests. Some folks respond better in a classroom environment where material is presented by an instructor. Others prefer watching online videos in which an instructor covers the essential material in a logical manner. Still others prefer quietly reading material explaining concepts on which test questions are based. Yet another approach taken by many upgraders is to skip the concept-and-book-learning phase altogether and instead just take enough practice tests to eventually get a passing grade of 75% or higher on the real test. While we don't recommend the latter approach, its proponents argue that the real goal is to pass the test and get the license—not necessarily to master all the technical material embodied in the question pool.

As you know, the three question pools (Technician, 426 questions, July 2014–June 2018; General, 462 questions, July 2015–June 2019; and Extra, 712 questions, July 2016–June 2020) are published, along with all multiple choice answers, on various websites. So, if all questions that could appear on anyone's test are known, as well as the answer, why not just study the question pool and then take the test? Well, with only an arbitrarily selected 7% or 8% of the test pool questions appearing on anyone's test, it's challenging to ensure a passing grade without having a fairly good grasp of the entire pool. Memorizing the correct answers—often among several choices that might appear equally valid—can be daunting unless you really understand the technical basis for the correct answers.

Several websites offer a means to study for General and Extra class upgrades (or prepare for the Technician test, but if you're reading this you likely already have the entry-level ham license). These include: HamExam.org; KB6NU.com; ARRL.org; AA9PW.com; QRZ.com; eHam.net; and HamTestOnline. Most are

free, but some have a modest fee to receive the tracking stats for your individual progress. The site that I most highly recommend—and it is also **FREE**—is HamStudy.org.

HamStudy.org is an interactive online program that uses a unique flashcard approach for conveying the important principles, illustrated here for the Extra class material. [Similar structure exists for Technician and General question pools.] In their system, you proceed through the entire pool (712 questions for the Extra class pool). The program brings up the questions one at a time spread fairly evenly over the entire pool, based on providing progressive coverage over all ten sub-elements, E0-E9. Look at the flashcard example in Figure 1 below.

E9
C11

How is the far-field elevation pattern of a vertically polarized antenna affected by being mounted over seawater versus rocky ground?

- A. Both the high-angle and low-angle radiation decrease
- B. The high-angle radiation increases
- C. The low-angle radiation increases
- D. The low-angle radiation decreases

I don't know

E9
C11

Correct

How is the far-field elevation pattern of a vertically polarized antenna affected by being mounted over seawater versus rocky ground?

- A. Both the high-angle and low-angle radiation decrease
- B. The high-angle radiation increases
- C. **The low-angle radiation increases**
- D. The low-angle radiation decreases

Figure 1. Typical flashcard from the Extra class question pool. This is the 11th question from Group C (from within A-H groups) contained within the sub-element E9, i.e., the Extra class sub-element #9 on Antennas and Transmission Lines. The answer can be chosen on-screen or the option is available to select “I don't know.” Once a response is selected, an indicator shows up in the upper right corner enabling you to then see an explanation or clarification of the correct answer, as shown below in Figure 2.

Continued on next page ►

Great Study Aid for Upgrading Your Ham License

► Continued from previous page

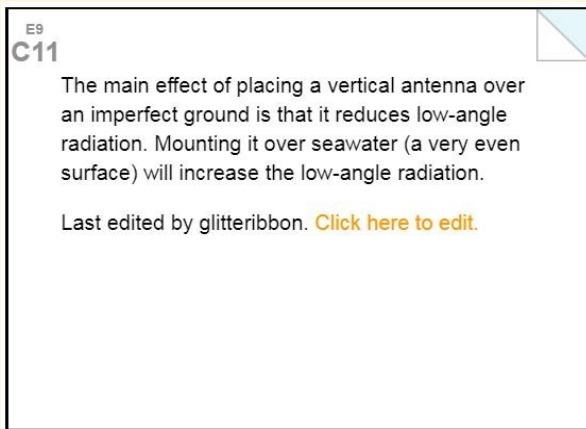


Figure 2. An explanation or clarification is available for anyone needing it—say, you got the wrong answer; or you got the right answer, but it was a guess; or you selected “I don’t know”; or you just want to reinforce the knowledge you already have about the principles embedded in the question/answer. Note that an opportunity is available for those who are recognized and approved-for-editing to make additions/corrections to the explanation/clarification language (much like the approach used by Wikipedia).

This unique on-screen flashcard approach embodies the best of both worlds—you get the test-taking experience applied on each question by being able to see all the possible answers to select the best one (or admit you don’t know); but you also can “flip the card over” by clicking on the upper right corner to see why the correct answer is the best of the available choices. This is a superb approach to learning.

In certain cases, there are memory aids placed on the back of the card for some Q&A’s that just have to be memorized. For example, one question asked about Hepburn maps and the answer was that they relate to characterizing tropospheric propagation. So, the memory association crutch was that you could really get sunBURNed in the TROPics. That mental image would indelibly imprint the correct answer should this question show up on the real test. That’s not to say that the explanations in general are glib and without substance. But, when basic physical principles cannot easily be applied, a memory crutch is often called for and is a welcomed aid in passing the test.

HamStudy.org’s website does have practice tests, just as all the other sites referenced above. But, this website’s prominent banner **“Don’t just practice for your ham radio license exam—study!”** emphasizes the importance of understanding the physical and electrical principles embodied in the questions.

Each time you miss a question or select “I don’t know,” that question will repeat, with what seems like an appropriate delay, later in the session so you can once again have an opportunity to correctly answer the question. This well-timed repetition is a really good feature of this site and is actually one of the reasons for its success in preparing candidates for the ham license test, as confirmed in unsolicited testimonials from its enthusiastic users.

So, if your near-term goal is a ham radio license upgrade, check out <https://hamstudy.org/>. Select either the General or Extra class option. And then select Study Flash Cards. The website keeps track of your individual progress and maps your readiness to take the real test. Good luck with your upgrade endeavors. ■

U.S. Amateur Radio License Trends, by Class						
Year-End	Extra	Advanced	General	Technician	Novice	Total Licenses
2017	145,034	41,938	174,206	377,902	9,056	748,136
2015	139,901	48,155	172,603	363,806	10,940	735,405
2013	133,391	54,293	167,257	349,163	13,097	717,201
2011	126,431	57,875	160,554	342,583	14,613	702,056
2009	119,403	60,863	150,479	333,505	17,167	681,114
2007	112,022	65,368	142,680	315,314	20,458	655,842
2005	107,440	74,221	135,067	319,125	26,747	662,600

SOURCE: Annual data published at <http://ah0a.org/FCC/Licenses.html>

A gargantuan public service weekend for Southern California hams in March 2018...and again in March 2019

By Diana Feinberg, AI6DF
QRO Editor

The weekend of March 17-18, 2018 was unlike any other for amateur radio public service in Southern California when nearly 500 hams operated at two high-profile annual events that coincided for the first time.

Separated by nearly 200 miles both the Los Angeles Marathon and Baker 2 Vegas Challenge Relay race extensively use ham operators along their respective routes. While 2018 was the first year both races were scheduled on the same weekend it turns out this will happen again on March 23-24, 2019.

That poses a challenge to the ham radio coordinators for these events because quite a few public service-oriented amateurs have historically operated at both races when several weeks apart.

Usually 80-90 operators work at the Los Angeles Marathon. But in March 2018 only 50 positions could be filled for the 33rd annual L.A. Marathon. Out at the 34th annual Baker 2 Vegas Challenge Relay 350 ham operators were at the various Stages (i.e., mile posts) supporting race relay teams plus about 100 hams in other capacities such as net control, the medical network, and radio administration. Baker 2 Vegas uses nearly 300 amateur frequencies on multiple bands along the 120-mile race route—plus Part 90 commercial frequencies.

Next March 23-24 both events will again be competing for their respective operator pool—and hopefully additional hams who haven't done either event will be available to help then.

There's an incredible sense of satisfaction from participating in these large-scale events. So, do consider either one in March 2019.



Top: View of Finish Line bridge under construction during overnight hours as seen from L.A. Marathon net control. Net Control operators were on-scene by 2:00 am.

Bottom: Net Control station at finish line in Santa Monica ready to go for Los Angeles Marathon's 2018 amateur radio coverage. All radio equipment—mobile transceivers, power supplies, batteries, AC and DC cables, coax lines, and antennas—had triple redundancy in case of any failure (additional equipment was stored off to right side.)

PHOTOS: DIANA FEINBERG, AI6DF

PVARC Club News

International Lighthouse & Lightship Weekend plans submitted

The PVARC recently submitted its application to the U.S. Coast Guard for using Pt. Vicente Lighthouse grounds during this year's International Lighthouse & Lightship Weekend, August 17-19. Our fellow member Bob Closson, W6HIP, is coordinator of our Lighthouse Weekend activity and prepared our request. If approved we will also hold our annual catered family picnic on Sunday, August 19. ■

PVARC operates at Ridgecrest Intermediate School 5K

Our member Walt Ordway, K1DFO, again headed the PVARC's radio operation at the Ridgecrest Intermediate School 5K on Sunday, April 29. This run/walk begins/ends on Norris Center Drive, taking two laps around the Promenade on the Peninsula Mall and adjacent streets. All went very well this year.

About 750 runners participated, primarily students in the Palos Verdes Peninsula Unified School District. The fastest finished in just under 20 minutes.

Our radio operators this year were: Steve KI6TEQ, Herb KM6DD, Mike N6DBS, Matthew N6MDC, David WA6PHS, Judy KM6RFE, Ginger KG6TAU, Cynthia AG6NW, Herb KO6RC, and Walt K1DFO. ■

Need PVARC member to coordinate PV Half Marathon coverage

We need a PVARC member to oversee our radio coverage for this year's Palos Verdes Half Marathon on Saturday, November 17. How about you?

Responsibilities include filling all needed operator positions, preparing instructions for all operators, and coordinating any arrangements for net control or needed operator equipment.

Walt Ordway, K1DFO, oversaw our Palos Verdes Marathon coverage and served as net control from 1984 through 2007. Denzel Dyer, KG6QWJ, took over in 2008-2009; then Diana Feinberg, AI6DF, served as organizer/net control during 2010-2016. Herb Stark, KO6RC, on behalf of the Rolling Hills Estates Kiwanis Club acted as the organizer in 2017. ■

Palos Verdes Amateur Radio Club

An American Radio Relay League Affiliated Club

Board of Directors:

President	Diana Feinberg, AI6DF
Vice President	Ray Day, N6HE
Treasurer	Peter Landon, KE6JPM
Secretary	Ron Wagner, AC6RW
Directors	Clay Davis, AB9A
	Gary Lopes, WA6MEM
Past Vice President	Mike Caulfield, AF6VT

Appointed Offices:

QRO Editor	Diana Feinberg, AI6DF
Webmaster	Kel Vanderlip, W6KCV
Club Librarian	Bryant Winchell, W2RGG
K6PV QSL Manager	Jeff Wolf, K6JW
K6PV Repeater Trustee	Mel Hughes, K6SY
LAACARC Delegate	Jeff Wolf, K6JW
VE Coordinator	Dave Scholler, KG6BPH
VE ARRL Liaison	Jerry Shaw, KI6RRD
Net Control Operators	Malin Dollinger, KO6MD; Dale Hanks, N6NNW; Bob Sylvest, AB6SY; Ron Wagner, AC6RW; Dan Yang, K6DPY

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Email us: k6pv@arrl.net

Website: www.k6pv.org

Mailing Address:

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

Monthly Meetings:

1st Thursday (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:

Gary Lopes, WA6MEM, gary@wa6mem.com

To order a Club jacket or patch:

Dave Scholler, KG6BPH, 310-373-8166

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Front page photo — *The flood-lit Pt. Vicente Lighthouse does its job after dark on a Friday night as seen from near Pt. Vicente Interpretive Center on April 27, 2018.* PHOTO: DIANA FEINBERG, AI6DF

PVARC Club News

Something new...

“What’s Next?”– no-stress, no-pressure help for our newer hams

Did you recently obtain your amateur radio license and wonder what to do next? Or you’ve had your license for several years and want to know more about avenues in amateur radio? Come to the PVARC’s “What’s Next?” gatherings at Hesse Park anytime from 6:30-7:20 pm just prior to our regular monthly meetings and ask for help with any question. We’re here to assist in a no-stress manner—and no ham radio-related question is considered “dumb” to ask.

Led by Ray Day, N6HE; Bob Millard, KE6JI; and Ron Wagner, AC6RW, we can help hams better understand how to operate their radios (and/or help purchase the best one for their budget.) We can also provide help on other ham radio subjects, whether for VHF/UHF bands or HF bands; public service or DXing/contesting, or ???

Among the most frequently asked questions by new hams are “Which radio to buy?” and “How do I program my radio?” If you have others we’re glad to help with those too. Look for Ray, Bob, and Ron off to one side of our room at Hesse Park while setup is underway for the main meeting. ■

Helpful guidelines when submitting QRO articles

Our **QRO** newsletter welcomes articles about technical subjects and PVARC member activities.

To facilitate layout and editing please send your article as two separate files: 1) all the text as a straight Microsoft Word file and 2) any photos, illustrations, or diagrams in a second file or as separate JPEG files. If possible please keep the text portion to not exceed 800 words. ■

QRO’s Dept. of Errors and Omissions

We strive for 100% accuracy in each issue but if you notice any errors or omissions in **QRO** please advise your **QRO** Editor, Diana AI6DF, at: ai6df@arrl.net. ■

WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2017-2018

Larry Fadden, KK6TXN

Steve Sheridan, KM6IQO

Pamela Gaume, KM6MMJ

Vincent Reher, KM6LGT

Bernadette Sabath, KM6SAB

Zvika Golan, KJ6LHL

Fred Cook, KE6AZB

Jeff Wolfe, KM6GYB

George Nestojko, WA6YBR

Irene Turner, KM6LGU

Dave Turner, KM6LGX

Don Wilt, WG6E

Don Putnick, NA6Z

George Rizkalla, KM6OXX

Alfred Visco, KM6OPB

Noel Park, KM6OPA

Michael Leyba, KK6KCH

John Tsohas, KM6OPE

Gregg Perkins, KM6OPD

Thomas Wynne, KM6QVW

Frank Attenello, KM6QVU

Debra Shrader, KM6QVX

Daniel Shrader, KM6QXC

Baldomero Fernandez, KM6QVV

Brian Keen, KM6QWC

Emanuele Rodrigues-Berardini, KM6QVZ

New site for PVARC's 2018 ARRL Field Day: Soleado Elementary School in RPV

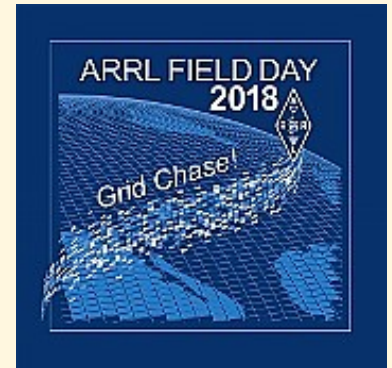
Mark your calendar for this year's ARRL Field Day. It's still on June 23-24 but we've changed sites: the PVARC is now operating from Soleado Elementary School on Longhill Drive in Rancho Palos Verdes.

We expected to again operate from Ridgecrest Intermediate School along the Peninsula's summit. But the Palos Verdes Peninsula Unified School District advised us Ridgecrest's campus will close on June 11 for an extended period into the summer months to upgrade the school's entire electrical system. This upgrade was projected to cost \$3.3 million—and appears to be the single largest maintenance expenditure in the school district's current budget.

While we still could have used Ridgecrest's soccer field for this year's Field Day there would be no restroom access...requiring us to rent a porta-potty or two. We are very appreciative the PVPUSD allowed us to use either of several elementary schools that had excellent antenna take-off directions for Field Day. Soleado Elementary was our first choice as an alternative to Ridgecrest...and marks a return of sorts since the PVARC's assistance with Soleado's 2013 amateur radio contact with the International Space Station.

Our former Field Day site for many years—Palos Verdes Peninsula High School at Silver Spur Road and Hawthorne Blvd.—is no longer available on 4th Sundays. That's because the popular Sunday Farmer's Market several years ago relocated to the high school's parking lot from the Peninsula Shopping Center.

Stand by for more info about Field Day...and see you there. ■



This year's ARRL Field Day logo.

COURTESY: ARRL WEBSITE



Above: Soleado Elementary School on Longhill Drive in Rancho Palos Verdes is this year's PVARC Field Day site on June 23-24. Soleado has excellent clear antenna paths from northwest to southeast—which covers the entire continental U.S. and Canada.

PHOTO: GOOGLE EARTH 3D IMAGE

PVARC and Local Calendar of Events

May 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 PVARC Net, 7:30 pm on K6PV repeater & 144.910 MHz link	2	3 PVARC May meeting, 7:30 pm, "What's Next," 6:30 pm—both at Hesse Park	4	5 K1DFO Tech & General clas- ses, Hesse Park, 9:30 am– 5:00 pm
6	7 7:00 pm: PVAN, NART, TARA, Gar- dena DCS nets 7:30 pm: L.A. County DCS nets	8 PVARC Net, 7:30 pm on K6PV repeater & 144.910 MHz link	9	10 So. Calif. DX Club meeting, 7:00 pm in Hawthorne	11	12 License tests, Hesse Park, 10 am. HF Enthusiasts Group, 10 am-Noon, PV Library Pur- cell Room
13	14 7:00 pm: PVAN, NART, TARA, Gar- dena DCS nets 7:30 pm: L.A. County DCS nets	15 PVARC Net, 7:30 pm on K6PV repeater & 144.910 MHz link	16	17	18 Dayton Hamvention	19 ARES-South meeting, Col- lege Medical Center Long Beach, 1-3 pm Dayton Hamvention
20 Dayton Hamvention	21 7:00 pm: PVAN, NART, TARA, Gar- dena DCS nets 7:30 pm: L.A. County DCS nets	22 PVARC Net, 7:30 pm on K6PV repeater & 144.910 MHz link	23	24	25	26 W6TRW Swap Meet, 7:00- 11:30 am, Northrop Grum- man
27	28 Memorial Day	29 PVARC Net, 7:30 pm on K6PV repeater & 144.910 MHz link	30	31		

Tell your friends and family about our upcoming ham license classes at Hesse Park

Two Free Amateur Radio Courses

FCC "Technician" course (entry level)

FCC "General" course (2nd level)

Each course is 2 sessions

The sessions will be on 4 August and 11 August 2018

Technician 9:30 AM to 1:30 PM both Saturdays (bring your lunch)

General 1:30 PM to 5:00 PM both Saturdays

The FCC tests will be 10:00 AM to noon on 18 August 2018

At the start of the 4 August Technician course, the Palos Verdes Amateur Radio Club will give a 30-minute presentation on how to get further involved with amateur radio.

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

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

There is no fee for either course.

Taking the FCC test is \$15.

Optional Material (sold at cost)

Gordon West books with all the FCC test questions,

\$22 for the Technician and \$26 for the General

Paper copy of Walt's Power Point charts,

\$22 for the Technician and \$22 for the General -

For courses sponsored by the Palos Verdes Amateur Radio Club, students thru grade 12 who pass their examination at a PVARC VE 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 VE 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.



Palos Verdes Amateur Radio Club
P.O. Box 2316
Palos Verdes Peninsula, CA 90274
www.n6rpv.net/pvarc or k6pv.org

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: _____

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 (\$20.00) \$ _____

Additional donation to support PVARC activities \$ _____

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.

I am applying for a new or renewal membership in the Palos Verdes Amateur Radio Club and understand that by accepting membership I agree to abide by the Club's constitution and by-laws (available on-line at: http://www.n6rpv.net/pvarc/constitution.htm or upon request.)

Signature: _____ Date: _____

Family Member Signature: _____ Date: _____

Family Member Signature: _____ Date: _____