



MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

### **Остовек 2018**



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## "The Reverse Beacon Network"

Tim Coker, N6WIN

### Thursday, October 4, 2018

Fred Hesse Park 29301 Hawthorne Blvd. Rancho Palos Verdes, CA

6:30 pm: "What's Next?" for newer hams or anyone needing information about amateur radio.

7:30 pm: General Meeting, ending by 9:30 pm

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## PVARC's upcoming meeting topics...

Tim Coker, N6WIN, is speaking about "The Reverse Beacon Network" at our October 4th meeting. HF contesters and DXers use the Reverse Beacon Network to check propagation conditions through RBN hams worldwide. These RBN-participating hams' radios continuously monitor bands with "Skimmer" software that decodes all stations calling CQ in CW (and now RTTY). These decoded callsigns then get immediately uploaded onto the RBN website. So...if a RBN station in the L.A. area hears a station there's a good chance you will too.

Our November 1st meeting speaker is U.S. Coast Guard Auxiliary flotilla officer Kim Castrobran presenting the history of Pt. Vicente Lighthouse, including its former radio equipment. There's no monthly meeting at Hesse Park in December...instead we hold our annual Holiday Dinner (see additional information about the Holiday Dinner elsewhere in this **QRO** issue.)

Speaking elsewhere, your **QRO** Editor gave presentations about linked repeater systems of Southern California at September 2018 monthly meetings of the W6TRW Radio Club in north Torrance and the Antelope Valley Amateur Radio Club in Lancaster. This talk, an updated version of the PVARC November 2017 meeting presentation, will also be given at the October 3rd meeting of the Veterans Administration Hospital of Long Beach Amateur Radio Club.

## **PVARC upcoming 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
- Walt Ordway, K1DFO, amateur radio license classes at Hesse Park Up next: Saturdays, November 3 and 10; license exam November 17
- **Public service events:** Palos Verdes Half Marathon, November 17. Steve Collins, KI6TEQ, is leading our coverage.
- PVARC Holiday Dinner: Los Verdes Golf Course, Rancho Palos Verdes
   Thursday, December 6. Guest speaker: Manhattan Beach schools K-5 science teacher Joanne
   Mitchell, KM6BWB, on high-altitude balloon projects with Kindergarten through 5th grade students.

## Please hold your questions (...we'll have time for these after our speakers finish their presentation)

It is imperative we finish our monthly Hesse Park meetings by 9:30 pm so that park staff can re-set our meeting room and lock-up the entire facility by 10:00 pm. To do this we would appreciate if everyone at PVARC meetings holds questions for our speaker until the speaker finishes his/her talk.

Our September meeting ended at 9:50 pm. After we pack-up our meeting equipment and vacuum the room's carpet the park staff needs to set up lots of tables and chairs for a contract bridge group that meets early Friday morning. Many speakers pace their presentations to fit within an allotted time but speakers get thrown off course when questions are asked mid-stream. Some questions might even be answered in the next slide or two. So please hold your questions until our speakers finish—and we'll finish on time.

## Fall months focus on disaster preparedness...and ham radio shows how it is prepared for disasters

### By Diana Feinberg, Al6DF QRO Editor

Mid-September through mid-November has great weather in Southern California. Now these months are also a great focal point for disaster preparedness expos and exercises where amateur radio is present.

In our club's immediate area October 2018 is already shaping up as "Disaster Prep" month. Consider these:

- 1. Palos Verdes Peninsula schools on **October 2** have first monthly disaster amateur radio drill of new academic year, with the simplex portion operated from the Lomita Sheriff Station DCS radio room.
- 2. On Thursday, **October 18**, at 10:18 am the Great California ShakeOut earthquake drill hits all of our State. Amateur operators in L.A. County DCS and city radio groups will be transmitting the situation reports that cities send to the County EOC during a major disaster.
- Also on Thursday, October 18, the City of Rancho Palos Verdes is hosting a free presentation by Southern California Edison on the state of the Peninsula's electric grid (Hesse Park, 7 pm). Of concern to many, including hams: Edison's proposed plan to de-energize power lines near brushy areas during periods of high wind and/or low humidity.
- 4. On Thursday, **October 25**, the four Peninsula cities jointly sponsor a free lecture by noted seismologist Dr. Lucy Jones (Ph.D. in geophysics from M.I.T.) at Ridgecrest Intermediate School in RPV, 7:00 pm.
- 5. The four Peninsula cities will jointly sponsor the Peninsula Preparedness Expo at the Norris Pavilion on Indian Peak Road during 12 noon to 3 pm. Sunday, **October 28**. The PVARC is again having a booth there promoting amateur radio and other area radio groups (L.A. County DCS, RPV's PVAN, and PVE's NART) will be there too.
- 6. Thursday, **November 15**, is the Statewide Medical and Health Exercise with amateur radio providing back-up communication from hospitals. This year's exercise scenario is a major infectious disease.

Disaster preparedness expos have been happening throughout Los Angeles County lately with excellent amateur radio presence. The City of Long Beach's massive "Ready Long Beach" expo at Cal State University Long Beach on Sept. 15 attracted thousands of residents. On Saturday, Sept. 29, disaster preparedness expos were simultaneously held by the City of Los Angeles in Northridge (a huge event for the entire San Fernando Valley), by the City of Malibu at their City Hall, and an Earthquake Expo in Lancaster at a church there—with multiple ham radio groups at each. More such events are slated elsewhere.

We hope you and your family will be prepared for disasters...and as amateur radio operators also serve for the greater good.



**Above:** The City of Long Beach went all-out for its Ready Long Beach preparedness expo on Sept. 15 outside CSULB's Walter Pyramid arena

PHOTO: DIANA FEINBERG, AI6DF

# PVARC's September HF Enthusiasts Group had lively show & tell—next HF meeting is October 13

### Report by Malin Dollinger, KO6MD

Twelve PVARC members had a diversified discussion at the September 8th HF Enthusiasts Group meeting, including discussing antennas (towers in particular) and ways to achieve tall antennas in cities that attempt to limit or deny such structures. They'll be meeting next on October 13 at the PV Library.

Brian K6BRN mentioned an installation having the tower in the middle of the floor plan, with a movable framework such that when the tower is retracted downwards the antenna on top sits next to the roof and cannot be seen. Jeff K6JW cautioned that when obtaining a city permit be sure to have the permit only for the tower and not for the entire tower + antenna structure (antennas may be changed but towers stay there). The topic of RF exposure to neighbors brought out the importance of considering the radiation pattern of each specific antenna.

George WA6YBR again showed his small portable HF antenna, which disassembles into small carrying cases, and demonstrated an additional mounting platform fastened to a PVC pipe assembly for stability (see photo). Carlos WD6Y brought a thick 1931

telecommunications book, "Handbook of Wireless Telegraphy" (see photo), a fascinating and highly technical discussion of radio theory and practice. Jerry NG6R explained his solutions regarding nonworking amplifiers, illustrating analytical skills to discover and solve problems for which no prior explanations or solutions were known.

Jeff K6JW mentioned his upcoming trip to ARRL headquarters in Connecticut and urged everyone to go there at least once. He told us, "When you are on the ARRL radio and announce 'W1AW calling CQ,' you have an instant pileup of hams wishing to make the contact and obtain a W1AW QSL card." This writer was there a few years ago, and actually spoke with Jeff on SSB from W1AW.

Malin KO6MD showed his finally-completed restoration of a very large and heavy WWII Morse Code key from the bridge of a battleship. Made of bronze (photo) and weighing about 10 pounds in a waterproof housing it was guaranteed not to move around, especially when bolted to the bridge platform. It will be at the October PVARC meeting for everyone to see. Likely it was used to control signal lights to other ships and lighthouses, since only the bridge crew can see the other ship's communication searchlight. Actual CW communication was likely the task of the below-deck radio room.

Top right: George, WA6YBR, built this antenna mounting platform.

**Middle right:** Carlos, WD6Y, brought a 1931 technical book.

**Bottom right:** Malin, KO6MD, showed his restored 10-pound Morse key originally mounted on the bridge of a WWII battleship.

ALL PHOTOS: MALIN DOLLINGER, KO6MD







## Fiat Lux! *(Let there be light!)* (Adding LEDs into your next project)

### By Jerry Kendrick, NG6R

Light Emitting Diodes (LEDs) for electronics applications are inexpensive and generally last longer than incandescent bulbs; they should be considered the go-to device when your (new, repair or modification) project calls for lamps—whether it's a simple on/off indicator, background lighting in an analog display meter or a series of status lights of various colors. This article describes the nature of these devices and how to create a simple and inexpensive circuit to energize them.

LEDs are semiconductors with a single P-N junction. When that junction is forward biased, i.e., when a positive voltage is applied to the P side of the junction (anode, with more holes than electrons) and a negative voltage is applied to the N side of the junction (cathode, with more electrons than holes), the diode will conduct. If the forward voltage is large enough, the electrons and holes recombine at the junction and release energy in the form of photons. In other words, LEDs convert electrical energy directly into light; compare that to incandescent lamps that first convert electricity into heat, which in turn generates light. Thus, these devices are much more efficient for light generation, with very little wasted electricity. What a great feature: from electricity to light and virtually no heat in the process!

LEDs come in various colors. Color is determined by the selection of materials infused into the junction and range from purple on one end of the visual spectrum to red on the other (with several selections in between, such as blue, green, yellow and orange). Interestingly, a white LED is generally created by combining a blue LED with yellow phosphor. By the way, there are even infrared LEDs, ideal for certain applications operating outside the human eye's spectral response range.







**Figure 1 [5].** Generic construction and schematic symbol of LED lamps. Note that the exterior housing is almost symmetrical except for two features. There is a small flat spot on the cathode side of the device; this polarity indicator will be critical when wiring an electrical circuit to energize the lamp. Also, the anode lead on most LEDs is slightly longer than the cathode lead.

## Fiat Lux! (Adding LEDs into your next project)

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The LED has an interesting I-V curve (current vs. voltage). As the forward voltage across the device is increased, current will remain relatively low until a certain voltage is reached at which current will rise markedly. And, the voltage at which this occurs varies somewhat with the emission color of the diode, as can be seen in Figure 2. Experimenters have generally determined that irrespective of color, a reasonable brightness from LEDs is achieved at about 20mA of current. Much more than this value of current will produce increased brightness but at the cost of shortened life. The experimenter can adjust the current downward from 20mA if a lower brightness is appropriate for a particular application. However, a good rule of thumb is to generally plan on about 20mA of current, regardless of LED color. Voltage across the device at this current level can be about 2V for red color diodes up to about 4V for blue color diodes.



Figure 2 [5]. Two different internet references regarding voltage drop across LEDs of various colors. Generally, applications will plan for approximately 20mA of current and for a voltage drop of about 2V to 4V.

### Application example #1 (DC)

Let's look at a couple of applications of LEDs as status indicators or lighting sources in a ham radio project. Let's assume that DC voltage is available in this project and that it is approximately 12 volts. We'll later consider an application in which only AC voltage is available to energize our device. To proceed with the design, we observe that 12V is way too much voltage to apply directly to a diode of ANY color. Let's say this application is a power-on/off indicator for this 12V source and that we've chosen a green color diode for this purpose. Let's assume that we select 20mA as the diode current design point. We check the package in which the diode was delivered and find that the manufacturer claims a 2.5V voltage drop across the LED at 20mA of current. So, we need a voltage dropping resistor that will dissipate the voltage difference (12V - 2.5V) so that we end up with about 2.5V across the diode. Looking at Figure 3, we need the dropping resistor R to have a voltage across it of 9.5V (12V - 2.5V) and a current through it of 20mA or 0.02A. So, invoking Ohm's Law,  $R = V_R/I_{LED} = 9.5V/0.02A = 475$  ohms.

## Fiat Lux! (Adding LEDs into your next project)

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A standard and commonly available value of 470 ohms is selected. Now, to determine a safe wattage rating for this dropping resistor, we can calculate the power dissipated in it and then derate appropriately.  $P_R = V_R^2/R = (9.5)^2/470 = 0.19$  watts of dissipation. A half-watt resistor selection will provide more than a factor of two in power margin and a one-watt resistor would provide more than a factor of five. Either selection is OK, as a factor of two is generally considered adequate and safe [3].



### Application example #2 (AC)

Now, let's consider another application: Provide white backlighting for an analog display meter whose existing incandescent lamp operates from 6.3VAC. LEDs are basically DC devices that emit light when forward biased. And, LEDs are damaged when they are reverse biased with voltage exceeding a certain level. So, the safest approach is to convert the AC to DC and avoid placing a reverse voltage on the diode.

With the existing incandescent bulb operating at 6.3VAC (rms), the peak voltage is  $\sqrt{2}$  times the rms voltage, or 1.414 x 6.3V = 8.9V. Now, consider the circuit in Figure 4.



**Figure 4.** Circuit for generating DC voltage and current from an AC source for energizing LEDs. The right panel illustrates the effect of the two components in this circuit that converts AC to DC.

In Figure 4, the rectifying diode conducts only on the positive half cycle and the capacitor attempts to hold that voltage until the subsequent positive half cycle. The resistor R is the dropping resistor that limits the current flowing through the LED. How do we determine the component values we need for this circuit?

Since we know that the LED will generally operate around 20mA of current, the rectifying diode can be virtually any common inexpensive junction diode such as the ubiquitous 1N400X series of general purpose diodes (e.g., 1N4004), which have current ratings of one amp. Now for the resistor R, note that for the LED

## Fiat Lux! (Adding LEDs into your next project)

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at approximately 20mA of current with an assumed 3.0V of forward voltage (for this white LED), and assuming that the average DC voltage is close to the peak voltage of 8.9V (We'll come back to that assumption shortly.), we need a dropping resistor that will drop 5.9V (8.9V – 3.0V).

So, again invoking Ohm's Law,  $R = V_R/I_{LED} = 5.9V/0.02A = 295$  ohms. A standard and commonly available value of 300 ohms is selected. Again, to determine a safe wattage rating for this dropping resistor, we can calculate the power dissipated in it as follows:  $P_R = V_R^2/R = (5.9)^2/300 = 0.12$  watts of dissipation. A halfwatt or even quarter-watt resistor will be adequate.

Returning to the assumption about the average DC voltage supplied in this circuit, consider the effect of the electrolytic capacitor in Figure 4. During the period of time between peaks of the rectified half-wave voltage, the capacitor will slowly discharge at a rate determined by the effective load resistance across it. That "effective load resistance" is calculated using Ohm's Law as the approximate voltage across the load divided by the current through it, i.e.,  $R_{eff} = ~8.9V/0.02A = ~445$  ohms. We recall that the time constant (T) for discharging this capacitor is the product of  $R_{eff}$  and C, or 445 x C.

So, now we want to select a value of C that doesn't permit the voltage to discharge very much during this period between peaks. And, we know that the peaks recur every 1/60<sup>th</sup> of a second. So, if we want to keep the average voltage very close to the peak value of 8.9V, we might want to select a C that would force a time constant of, say, ten times that length of time, i.e., 1/6<sup>th</sup> of a second (or 0.167 seconds). Obviously, that would be overkill for this application, but also instructive to determine what value of C would result from this assumption.

Completing the calculation:

Time constant = T = R<sub>eff</sub> x C

So, C = T/R<sub>eff</sub> = 0.167/445 = 3.75 x 10<sup>-4</sup> Farads = 375 microfarads

Use of such a large value of capacitance would result in a really steady DC voltage, and with much less AC ripple than could be tolerated and still ensure flicker-free operation of the LED. (A value of 100  $\mu$ F has been used by the author for this particular application—front-panel meter backlighting in Heathkit SB-200 HF amplifier—with no flickering of the LED light. This particular capacitance value of 100  $\mu$ F would correspond to a time constant of about 1/20<sup>th</sup> of a second, or about 3 cycles of the AC.) Be sure to specify a voltage rating for the selected capacitor—at least twice the maximum voltage seen in the circuit, or in this example, twice 8.9V; so, a voltage rating of 25V would be a good choice [4].

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## Fiat Lux! (Adding LEDs into your next project)

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With these two examples as guides for both DC and AC voltage sources, an LED circuit can be synthesized for virtually any ham radio application. Just scale the components appropriately for the source voltage driving the LED and don't forget to properly size the wattage of the dropping resistor. PVARC club members, please contact the author if you need any (free) components for these circuits, including LEDs. (I have extras, enough for several lifetimes!) Figure 5 shows some photos of LED applications by the author.

(1) (2) (3) (4)



Figure 5. (1) Burned out "grain of wheat" incandescent bulb (0.115" diameter) vs. replacement LED; (2) Blue/purple LEDs installed as backlighting in author's TM-321A transceiver; (3) DIY powered speaker with green LED power-on indicator; (4) Pair of white LEDs adapted for meter display lighting in author's Tokyo Hy-Power HL-1.5KFX HF amplifier

### **References:**

- 1. Page 5, http://n6rpv.net/pvarc/2013QRO/QROJun2013.pdf
- 2. Page 6, http://n6rpv.net/pvarc/2017QRO/QROOct2017.pdf
- 3. https://www.pcboard.ca/led-dropping-resistor-calculator
- 4. http://www.learningaboutelectronics.com/Articles/What-does-the-voltage-rating-on-a-capacitor-mean
- 5. Graphics design by Diana Feinberg, AI6DF

### Schools sought for amateur radio contacts with International Space Station

The application period is from Oct. 1 until Nov. 30 for the next round of schools to talk with astronauts aboard the International Space Station via ham radio. If you have a school that might be interested please see the proposal guidelines and forms at :<u>http:// www.ariss.org/hosting-an-ariss-contact-in-the</u> <u>-us.html</u>. Proposals will need to show how a contact would integrate with STEM programs.

PVARC member Norm Thorn, K6UU, is an ARISS Mentor for Southern California and may be reached for further information at: norm@noroc.com. The photo at right shows Norm addressing students at Santa Ana's Mendez Fundamental Intermediate School just prior to a successful Space Station contact there on September 6, 2018.



## Heathkit SB-200 HF linear amplifier for sale



(Photo of actual amplifier for sale, 19 Sep 2018)

### Donated to PVARC from SK estate—fully restored, reconditioned, and tested by NG6R.

- Very clean, inside and out
- Wired for 120V AC; capable of 240V AC operation
- Pair of excellent US-made (hi-transconductance) 572B tubes
- One spare US-manufactured 572B tube included
- 600W+ output power on CW with 100W drive (note: 1000W instrument range in photo, right):
- All three Harbach mods installed:
  - New and updated high-voltage power supply board (2100V+)
  - New soft-start module (start-up surge protection)
  - New soft-key module (a must for modern transceivers)
- All new electrolytic capacitors throughout
- RF input jack (RCA style) replaced with SO-239
- Incandescent 6V AC meter backlighting bulb replaced with LED
- All rotary switch and relay contacts meticulously cleaned
- Copy of assembly manual and schematic included

Local pickup only, no shipping Will demonstrate to buyer's satisfaction prior to completion of sale Cash or certified check: \$700, or \$650 for PVARC club member—proceeds to PVARC Contact Jerry, NG6R or Diana, Al6DF



## **PVARC Club News**

**ORO** 

## Discounted PVARC badges still available to 12 more members

The PVARC Board would like as many members as possible to have club badges because they enable members to better recognize one another. To facilitate this objective for a limited time we are offering up to 25 members a club badge for just \$6.00 versus the normal \$13.50 cost. This subsidized offer is available only during September and October to the first 25 members requesting a badge. If interested please contact Gary Lopes, WA6MEM, at gary@wa6mem.com or see him at our September 6th monthly meeting. ■



### Embroidered PVARC patches available at meetings

PVARC club patches will be available at our monthly meetings for \$4 each. You may sew these onto any cap, jacket, shirt, or fabric bag.

## Amateur Extra license course in Long Beach during October

It's rare to find classes for the Amateur Extra license. But if you can spare four Saturdays this October and engage in several months of advance self-study there's such a course at the American Red Cross building in Long Beach.

Mark Chung, MD, KK6SMD, will teach this Extra course on Saturdays October 6, 13, 20, and 27 from 8:00 am to 5:00 pm each day. The \$75 fee includes handouts covering all 712 Amateur Extra questions, breakfasts, coffee, snacks, and cost for using the Red Cross facility. Mark KK6SMD is our ARRL Los Angeles Section Asst. Section Manager—Education. To register send your name, address, and check to:

Mark Chung, MD Box 575 13337 South Street Cerritos, CA 90703 Questions? mchung@prodigy.net

## **Palos Verdes Amateur Radio Club**

An American Radio Relay League Affiliated Club

### Board of Directors:

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Secretary	Ron Wagner, AC6RW
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Past Vice President	Mike Caulfield, AF6VT

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Website: www.k6pv.org

### Mailing Address:

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

#### Monthly Meetings:

1<sup>st</sup> 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 — Pt. Vicente Lighthouse illuminated by the final rays of light at dusk on September 21, 2018. PHOTO: DIANA FEINBERG, Ai6DF

### **PVARC Club News**

QRO

### **PVARC Holiday Dinner reservations** being taken through November 26

Reservations are now being accepted for our 2018 Holiday dinner at Los Verdes Golf Course in Rancho Palos Verdes on Thursday, Dec. 6. Spouses are welcomed but it's no problem for members to come solo.

The dinner invitation and menu, along with RSVP form, appear on page 14. Our menu is again a plentiful self -serve buffet...and this year there will be plenty of dessert cakes as well. (The Golf Course has been made aware there were no desserts for about onethird of our dinner attendees in 2016—that mistake won't be repeated.)

Speaking after dinner is Joanne Michael, KM6BWB, a Manhattan Beach teacher presenting her high-altitude balloon projects involving elementary school students.

And lastly...we'll have our eagerly-awaited prize drawings. Each dinner attendee will receive one ticket with an equal chance of winning. No additional tickets will be sold but you might win a prize significantly exceeding the cost of your dinner.

Our reservation deadline is 10 days before the dinner, making November 26 the final day to RSVP.

## 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

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 Neal Pollack, N6YFM Daniella Ward, KM6TRC Talbot Knighton, KM6TDF Dylan Brown, KM6TDI Robert Cullinan, KM5DI Ellen Tessitore, N6XJM Michael Vulpillat, KJ6RVU Brian Clebowicz, K6BRN

## **PVARC Club News**

### PVARC website re-design still underway

Later this year look for a completely new PVARC website at www.k6pv.org.

The PVARC Board of Directors has been working since early this year with our webmaster Kel Vanderlip, W6KCV, to use new web tools for enhancing our website utility. We are especially focusing the PVARC's website to have easier navigation and more design congruency with our **QRO** monthly newsletter.

Other website options going forward are to provide for additional media formats such as video and audio, indexing of **QRO** articles, and easy posting of photos and technical content. We are very thankful for the work our previous webmaster John Freeman, WW6WW, provided for more than a decade before turning over the website to Kel in early 2017. In the meantime, we also greatly appreciate fellow member Dale Hanks, N6NNW, providing free hosting for the PVARC's website after we moved from the www.palosverdes.com hosting service in late 2016.

### **PVARC 2019 dues renewal to have PayPal option**

In response to member inquiries and practices at some other amateur radio clubs the PVARC Board of Directors has decided to initiate a PayPal option for club dues and donations starting with the 2019 calendar year.

We have some technicalities to work out, including how to factor in PayPal fees that average slightly over 4% of the transaction value. Some groups add a small incremental fee to cover PayPal transaction costs and we are exploring whether to have such an increment. Adopting PayPal will also make our Treasurer's job easier by resulting in far fewer checks needing deposit and an easier audit trail. For members an added benefit is that Pay-Pal has a credit card payment option regardless of whether PayPal is linked to a bank account. Stand by for further details.

## **PVARC** assists with Part 90 radios at Concours d'Elegance

The 25<sup>th</sup> annual PV Concours d'Elegance was held on Sunday 30 September at the Robinson Helicopter facility in Torrance. The theme for the Concours this year was "California Style." The event went extremely well and had nearly 200 classic cars displayed.

As in past years many of the people who organize and manage the various elements of Concours d"Elegance need handheld radios for communication during the event. This year 87 commercial (FCC Part 90) handheld radios were rented with the coordination, distribution and support of this equipment all handled by ham radio operators in our club. Thanks for another job well done goes to Herb KO6RC, Cynthia AG6NW, and Walt K1DFO.

# Palos Verdes Half-Marathon, Nov. 18, is the PVARC's next public service event

This year's Palos Verdes Half-Marathon and 10K on Saturday, November 18, will be the PVARC's final 2018 public service event. PVARC member Steve Collins, KI6TEQ, is overseeing our Half-Marathon coverage and will soon be seeking radio operators at positions along the running route and at the Start/ Finish area. Please contact Steve at skibear90275@verizon.net if interested and able to serve.



## Please Join Us at the Palos Verdes Amateur Radio Club 2018 Holiday Dinner

Los Verdes Golf Course 7000 W. Los Verdes Drive, Rancho Palos Verdes, CA Thursday, December 6, 2018 Meet and Greet beginning at 6:30 pm, Dinner at 7:00 pm, followed by Program and Prizes

### **Dinner Buffet:**

Garden Salad with choice of two dressings

Spinach Salad with Feta Cheese and Pine Nuts

Fresh Baked Salmon with Sauce

Slow-Roasted Tri-Tip Beef with Mushroom Merlot Sauce

**Red Roasted Potatoes** 

Seasonal Vegetables

Warm Rolls and Butter

Plenty of Dessert Cake: Chocolate Layer and two other types of Cakes

Coffee, Decaf Coffee, Hot Tea, Iced Tea, and Water

### Palos Verdes Amateur Radio Club 2018 Holiday Dinner

Los Verdes Golf Course, Rancho Palos Verdes Thursday, December 6, 2018

Price per person: \$45 Number of people attending: \_\_\_\_\_

I would like to also donate: \$5 \_\_\_\_ \$10 \_\_\_\_ \$15 \_\_\_\_ Other amount\_\_\_\_\_

Total amount enclosed: \$\_\_\_\_\_ Please make check payable to the **Palos Verdes Amateur Radio Club** (All donations are applied towards club expenses for the evening.)

Name\_\_\_\_\_

Call Sign\_\_\_\_\_

Please pay at our monthly meetings or by mailing to: PVARC, PO Box 2316, Palos Verdes Peninsula, CA 90274

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## **PVARC October 2018 Calendar**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	<b>2</b> Weekly net on K6PV & 2M cross-link, 7:30 pm	3	4 7:30 pm PVARC Octo- ber general meeting, Hes- se Park	5	6
7	8	<b>9</b> Weekly net on K6PV & 2M cross-link, 7:30 pm	10	11	12	<b>13</b> 10a-Noon <b>PVARC HF</b> <b>Enthusiasts</b> Meeting, PV Main Library, Purcell Room
14	15	<b>16</b> Weekly net on K6PV & 2M cross-link, 7:30 pm	17	<b>18</b> 7:00 pm So Cal Edison presentation on Peninsula's electrical grid, Hesse Park	19	20
21	22	23 Weekly net on K6PV & 2M cross-link, 7:30 pm	24	<b>25</b> 7:00 pm Peninsula cit- ies present Dr. Lucy Jones free lecture at Ridgecrest IS	26	<b>27</b> W6TRW Swap Meet at Northrop Grumman, 7:00-11:30am
<b>28</b> Noon-3pm Peninsula Pre- paredness Ex- po, Norris Pa- vilion, RHE	29	<b>30</b> Weekly net on K6PV & 2M cross-link, 7:30 pm	31			

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

## **Two Free Amateur Radio Courses**

FCC <u>"Technician"</u> course (entry level) FCC <u>"General"</u> course (2<sup>nd</sup> level) <u>Each course is 2 sessions</u> <u>The sessions</u> will be on 3 November and 10 November 2018 <u>Technician</u> 9:30 AM to 1:30 PM both Saturdays (bring your lunch) <u>General</u> 1:30 PM to 5:00 PM both Saturdays The FCC tests will be 10:00 AM to noon on 17 November 2018

At the start of the 3 November 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 <u>no fee</u> for either course. Taking the FCC test is \$15.

Optional Material (sold at cost) Gordon West books with all the FCC test questions, \$26 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.

QRO	OCTOBER 2018				PAGE 1
READER TO LEADER	Palos Verdes Amateur Radio Club P.O. Box 2316 Palos Verdes Peninsula, CA 90274 <u>www.n6rpv.net/pvarc</u> or <u>k6pv.org</u>		New Member & Iembership Renewal Fo	RM	
New:	Or RENEWAL:MEMBERSHIP DATE:				
Last Name:	Firs	t Name:		Spouse:	
Street Address: _					
City:				Zip:	
Phone: Home	Wo	ork	0	Cell	
Email address: _	Email address:				
License Call:	License Clas	s:ARRL M	lember?	Birth Mo./Day:	
Other amateur rac	dio groups you belong	to:			
Additional House	hold and/or Family Me	mbers (if Applical	ole):		
Name	Call	Class	ARRL	_ Birth Mo./Day:	
Name	Call	Class	ARRL	_ Birth Mo./Day:	
Name	Call	Class	ARRL	_ Birth Mo./Day:	
		I	ndividual r	nembership (\$15.00) \$	
		Household and/	or Family r	nembership (\$20.00) \$	
	Α	dditional donatio	n to suppo	ort PVARC activities \$	
C	Cash: or Chec	k #: D	ate	TOTAL \$	
Please make checks	s payable to: Palos Verdes	Amateur Radio Clu	b; Dues bas	sed on January 1 <sup>st</sup> to December 31 <sup>st</sup>	year.
AI	l New and Renewal I	Member applica	tions mu	st be signed below.	
I am applying for a accepting members <u>http://www.n6rpv.n</u>	new or renewal member hip I agree to abide by th het/pvarc/constitution.htm	ship in the Palos V e Club's constituti or upon request.)	erdes Ama on and by-	teur Radio Club and understand th laws (available on-line at:	hat by
Signature:				Date:	_
Family Member Sig	gnature:			Date:	_

Family Member S	Signature:
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