



# QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

SEPTEMBER 2019



## Inside this month's QRO

Upcoming monthly meeting speakers .....	2
PVARC's International Lighthouse & Lightship Weekend .....	3-5
Ergonomic and design factors differentiating the three DMR HT transceivers supported by PVARC, by <i>Diana Feinberg, AI6DF</i> .....	6-12
PVARC's HF Enthusiasts Group meeting; Conquer the Bridge.....	13
PVARC club news.....	14-15
PVARC Calendar, September 2019.....	16
K1DFO's November 2019 ham license classes.....	17
CERT classes at Hesse Park, three Saturdays in October .....	18
PVARC membership renewal / application form .....	19

## Understanding DMR (Digital Mobile Radio)

**Thursday, Sept. 5, 2019**

6:30 pm: 1) "What's Next?" group...all ham radio questions welcome, and 2) separate "DMR Basics" group

7:30 pm: Main meeting and presentations

**Fred Hesse Community Park  
(McTaggart Hall)  
29301 Hawthorne Blvd.  
Rancho Palos Verdes, CA**

*Visitors always welcome*

## PVARC's upcoming meeting topics...

The PVARC's **September 5** meeting is devoted to understanding VHF/UHF Digital Mobile Radio (DMR) and our experiences since March 2019 when K6PV became a dual-mode repeater.

Our club directors and others have been working on a comprehensive but understandable presentation about DMR to demystify its complexity while explaining DMR's advantages. Some members will also show their DMR radios—both the three HT radio models for which PVARC is providing technical support and some non-supported DMR transceivers that work great if programmed properly. We say again: no one is obligated to purchase a DMR radio...K6PV still works with your analog FM radios but these cannot reach DMR talkgroups or use DMR's "time slots" allowing two simultaneous conversations on one frequency pair.

Our October 4 monthly meeting features an unusual speaker—noted telecommunications attorney Jonathan Kramer, W6JLK, will present "I'm from the government...and I'm here to...." (fill in the blank).

As an attorney at law admitted in California and New Mexico Jonathan heads Telecom Law Firm P.C. in Los Angeles and San Diego where he and his staff attorneys draft wireless telecommunications ordinances for local governments (including provisions and exclusions for ham operations) and process antenna siting permit applications. Also the co-author and co-editor of the FCC's national guide to radio frequency transmission safety guide, Jonathan regularly deals with RF safety concerns raised by the public, mainly in connection with cell towers.

The PVARC November meeting topic will be announced shortly.

**Save the date...**PVARC's 2019 Holiday Dinner is Thursday, December 12th, at Los Verdes Golf Course, 7000 W. Los Verdes Drive, Rancho Palos Verdes. We'll again have an expansive buffet dinner...same price as 2018...along with a guest speaker and our after-dinner prize drawings. You might get a prize that considerably exceeds the cost of your dinner. Details to follow starting in the October **QRO** issue. ■



### Get CERT trained

If you haven't taken Community Emergency Response Team (CERT) training several area classes are scheduled during Fall 2019. CERT training is a nationally-standardized 21-hour course developed through the Federal Emergency Management Agency (FEMA). One must complete all segments to receive a completion certificate.

**Palos Verdes Peninsula:** Los Angeles County Fire Department instructors are teaching CERT free of charge at Hesse Park on three Saturdays, October 5-12-19, from 9:00 am to 4:30 pm each day. Please see the flyer on page 17 of this **QRO** issue.

**Hermosa Beach:** Los Angeles County Fire Department is also teaching CERT at South Park, 425 Valley Drive, during Monday and Wednesday evenings from 6:00-9:00 pm from September 9 through October 2. To register see: <http://www.fire.lacounty.gov/lacofd-cert-program/lacofd-cert-registration/>

**Redondo Beach:** Redondo Beach Fire Department is teaching CERT from 6:30-9:00 pm Thursdays September 5 through October 26. Cost is \$40 for Redondo Beach residents and \$100 for non-residents. See: <http://www.rbcertaa.org/PDFs/CERT%20Academy%2055%20Application.pdf>. ■

# Some scenes from our International Lighthouse & Lightship Weekend at Pt. Vicente, August 16-18



**Left:** K6PV's hexbeam atop our antenna tower trailer next to the Pt. Vicente Lighthouse exhibit center building.

**Bottom right:** This year's weather was much cooler than the hot and very humid conditions of 2018 ILLW.

**Bottom left:** It's dark at Pt. Vicente after dark...the lighthouse is shown 40 minutes after sunset with its low-power LED beacon that replaced the historic Fresnel lens now on permanent display at Pt. Vicente Interpretive Center.



PHOTOS: DIANA FEINBERG, AI6DF

# Our HF radio operations during 2019 Lighthouse Weekend



**Left:** Annalise Little, KM6YGS, logs while another PVARC member operates (sorry, the cap visor obscured who was operating.)

PHOTO: RAY DAY, N6HE



**Right:** Few HF stations can say they operated underneath a boat but we did (of sorts.)

PHOTO: DIANA FEINBERG, AI6DF



**Left:** Bob Closson, W6HIP, shown operating our HF station, was our Lighthouse Weekend Coordinator with the Coast Guard. Thank you, Bob.

PHOTO: RAY DAY, N6HE

# Scenes from our Lighthouse Weekend picnic, Sunday, August 18



**Top left:** Our members' children had a chance to visit the Lighthouse exhibit building and K6PV HF station. PHOTO: DIANA FEINBERG, AI6DF



**Top right:** The PVARC picnic received a bonus flyover by seven vintage military planes. PHOTO: RAY DAY, N6HE



**Right:** PVARC members and guests await the arrival of our catered food. PHOTO: DIANA FEINBERG, AI6DF

**Below:** Our BBQ food arrives and eating is about to begin. PHOTO: DIANA FEINBERG, AI6DF



## Further comparing PVARC's three supported DMR HT radios: Consider the ergonomic and design factors differentiating them

By Diana Feinberg, AI6DF  
QRO Editor

Early in my ham radio life I discovered an unfortunate aspect of handheld transceivers: some HTs with either great technical specifications or low cost were actually lousy radios from ergonomic and usability standpoints.

After I became heavily involved with field operating at public service events and for Los Angeles County Disaster Communications Service I realized just how important a radio's external design would be—and often you really need to look beyond the basic technical specs.

Our April and May 2019 **QRO** issues published a comparison table of technical specifications differentiating the TYT UV380, AnyTone 868/878UV, and TERA TR-7400 DMR-capable transceivers. Now in this September **QRO** issue the following article compares these HTs on their ergonomics. (Those technical specs are reprinted on the next page to allow a fuller picture with ergonomics and usability.)

What made this article on HT ergonomics possible was a strange twist of events. Your **QRO** Editor initially bought a TERA TR-7400 because it had the best feel and its MIL-STD ratings made it the most durable of the three DMR radios PVARC currently supports. Then through work supporting other organizations AI6DF ended up buying the TYT UV380 and AnyTone 878UV HTs as well. It was a unique opportunity to sit all three radios side-by-side and put each through the motions of how I use handheld radios.

Be advised this article won't delve into the programming software for each radio. Although the software is quite similar between the three radio models there are a few quirks in naming the various settings. But for the most part all three programming packages have a lot of similarity with what Motorola and other Part 90 radio makers have done with their software over the past 10 years.

So to put my conclusion at the start of this article...Which of the three HT radios do I like best, all things considered?

My answer: If you can live with a single-band HT (which I happen to prefer due to better front-ends rejecting out of band signals) my first choice is still the TERA TR-7400. It is excellent in almost every aspect except its display isn't as bright as advertised. The other disappointment with the TERA is that front panel programming doesn't work well...you really need to use the software to add another channel.

My second choice would be the AnyTone 878UV because of its easy to use front panel and programming, bonus GPS and APRS capability, very bright (though busy) display screen, massive channel capacity, and ability to hold the entire worldwide DMR contact database that shows who's calling in your display like Caller ID. However as you'll see in the following pages this radio has some significant drawbacks if you do significant public service communication.

I am open to any comments about the usability of these radios but I am confident one of these will work for you.

*Continued on next page* ►

# By the numbers only: Comparing PVARC's supported DMR radios

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<b>PVARC-supported DMR radio models</b>  <b>Specifications and features:</b>	 <p><b>TYT UV-380</b> —also MD-380* (UHF), now discontinued</p>	 <p><b>Any-Tone 868UV 878UV</b></p>	 <p><b>TERA TR-7400</b></p>	<p><i>Not PVARC supported—shown for comparison only</i></p>  <p><b>Motorola XPR-7550</b></p>
Price (base unit), excluding sales tax	\$95-130	\$160-220, depending on accessories	\$249	\$1,100
Storage:	Channels: 3,000/1,000* Zones: 250 Talk Groups: N/A DMR database holds: Not stated	Channels: 4,000 Zones: 250 Talk Groups: 10,000 DMR database holds: 150,000 ham radio IDs	Channels: 1,024 Zones: 64 Talk Groups: 800 DMR database holds: 100,000 ham radio IDs	Channels: 1,000 Zones: 64 Talk Groups: In Channels DMR database holds: 1,000 ham radio IDs
Display type	LCD	TFT LCD	OLED (easier to read in bright daylight)	"Color display" but not otherwise specified
Frequencies covered	136-174 MHz and 400-480 MHz	136-174 MHz and 400-480 MHz	403-470 MHz	403-527 MHz
Transmit power levels	5.0/1.0 W	6.0/4.0/2.5/1.0 W	4.0/1.0 W	4.0/1.0 W
Frequency stability	±1.0 ppm	±2.5 ppm	±1.0 ppm	±0.5 ppm
Weather protection	None	None	IP67 waterproof	IP68 waterproof
Ruggedness: Military Standard tests claimed for vibration, shock, dust, water, temperature, humidity, etc.	(None stated)	(None stated)	MIL-STD 810 C/D/E/F/G	MIL-STD 810 C/D/E/F/G
Battery capacity (Li-ion)	2000 mAh	3100 mAh	2200 mAh	2,250 or 3,000 mAh
Rated audio output	1.0 Watt	1.0 Watt	1.5 Watts	0.5 Watt
Warranty	1 year	1 year	2 years	2 years
Reported quality of customer technical support	Depends on seller	Varies...Excellent from BridgeCom, none from Amazon.com	Excellent	Excellent if bought through authorized dealer
Other features		878UV has built-in GPS. Optional addition: 500 hours of voice recording or Bluetooth audio		Built-in WiFi, Bluetooth audio and data; optional IP Site connect

# By the ergonomics: Comparing PVARC's supported DMR radios

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## Front panel ease of access:



**Awkward:** Up/Down and menu selection keys difficult to use with thumb-only one-handed operation. May need to use both hands. Four-column keypad feels cramped. "Zero" button out of place, not at bottom of keypad like most radios.

Front panel programming of new frequencies is difficult...need to use the programming software.

**Excellent:** Up/Down arrows and menu selection keys in mid-section of radio easiest to use with thumb-only one-hand operation. Numeric keys are largest size among the three radios... and easiest to read.

Front panel programming for new channels is most accommodating of the three radios.

**Very Good:** Up/Down arrows and menu selection keys easy to use with thumb only. But numeric keys could have been bigger-sized.

Front panel programming of new frequencies is extremely limited...really need to rely on the software.

Also, **be advised this radio uses a non-standard speaker mic.** The other two HTs use the familiar Kenwood/Baofeng two-pin speaker/mic and headset connectors (3.5mm pin is mic and 2.5 mm pin for speaker.)

PHOTO: DIANA FEINBERG, AI6DF

# By the ergonomics: Comparing PVARC's supported DMR radios

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PHOTOS: DIANA FEINBERG, AI6DF

Push To Talk button location defines your physical grip on the radio:

PTT too low, has function button above which can be mistakenly pressed

Almost right

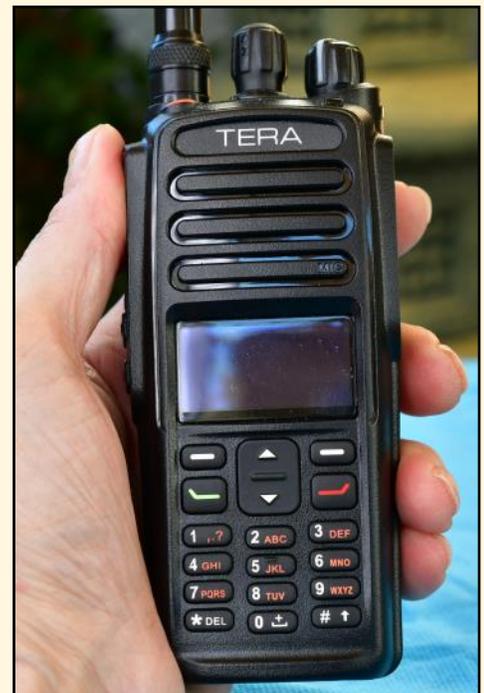
Perfect height



**Be careful:** Radio only fits in top third of your palm...could fall out of hand.



**Better:** Radio fits in center of your palm...more stable.



**Best:** Radio fits securely across entire palm...very stable, feels natural.

# By the ergonomics: Comparing PVARC's supported DMR radios

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## Usability with a public safety radio holster:

PHOTOS: DIANA FEINBERG, AI6DF



**Good:** Display is protected, speaker mostly open...but narrow spacing between top knobs makes for awkward finger access.



**Poor:** Display fully exposed to possible damage and speaker in center of radio is totally covered by holster...speaker mic needed with a holster.



**Excellent:** Display is protected and speaker face completely open. Narrow channel selector knob on top is easy to turn when radio in holster.

### What's on top makes for much better usability:

No channel selection markings atop AnyTone models due to their variable Zone sizing. This means radio must be removed from holster or belt and the screen viewed when changing channels to ensure having correct channel.



**Fair:** No programmable top button for emergency or scanning modes; hard to read channel selector (center) numbers in black on black.

**Fair:** Has programmable top button but no channel selector markings; knobs feel slippery without ribs

**Excellent:** Has programmable top button and high-contrast channel selector markings; great knobs

# By the ergonomics: Comparing PVARC's supported DMR radios

► Continued from previous page

## More on those knobs:

PHOTOS: DIANA FEINBERG, AI6DF



**Fair:** Knobs much too close together, awkward to turn if wearing gloves or have large fingers.

**Better:** Knobs slightly further apart than TYT, but have no position indicator marks.

**Best:** Knobs furthest apart, easy to grip and turn. Have easy to see position indicators



**Nice feature #1 on AnyTone 878UV:** Built-in GPS system works great but it's buried in the Menu options. Be advised: GPS screen only stays on for 10 seconds before reverting to home screen...if you haven't copied the coordinates by then you need to start all over through the Menus to reach the GPS.

**Nice feature #2 on AnyTone 878UV:** Also does APRS (Automatic Position Reporting System) in either analog or digital modes.

## Why you should consider a public safety radio holster instead of a belt clip:



Radio holsters for public safety professionals do two things: they angle the antenna away from your body and the holster swivels when you sit down. The typical radio belt clip puts the antenna right next to your body and doesn't swivel.

## By the ergonomics: Comparing PVARC's supported DMR radios

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Finally, about each radio's display screen:

PHOTO: DIANA FEINBERG, AI6DF



**Good:** Nice color display at low cost, but some screen items are very small...you will need your reading glasses.

**Best, but busy:** Very bright color screen but displays too much. Small dark blue indicators hard to read in brighter light. This display has enough real estate for GPS and APRS use, dual VFOs, and extensive Menu lists.

**Very good:** As single-band radio has clean, uncluttered screen that shows the basics. But not as high contrast display as the other two radios. Although marketed as having an OLED screen easily visible in bright sunlight that wasn't my experience. Photo above is with backlight at highest level.

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This completes my brief ergonomic tour of the PVARC's three supported DMR radios. All three models will be at our September 5 meeting along with some non-supported radios for comparison.

In considering whether to purchase one of these radios remember that beyond the numeric technical specifications usually "You get what you pay for" but "What you see is what you get." Hopefully this article has better explained the latter. ■

## Next HF Enthusiasts Group meeting at PV Library is Sept. 14

The PVARC's HF Enthusiasts Group next meets on September 14, 10:00 am to Noon, in the Palos Verdes Library's main branch (701 Silver Spur Rd / 650 Deep Valley Dr.) Purcell Room (behind the Reference Desk). Free parking is on the Library roof, in a parking structure on Deep Valley Drive, or inside a small parking area accessed from Silver Spur Rd. day in the County EOC.

Here are some topics discussed at the August 10 HFEG meeting with only six attendees due to the Dog Days of Summer (thanks to Ray Day, N6HE, for this recap):

- Neal N6YFM brought his finished station homebrew clock (a real work of art) – pics coming separately. Reported he's still getting used to FT4 and is loving his Flex.
- Malin KO6MD is getting into DMR.
- Don NA6Z will be participating in CW Academy Level II. He thinks DMR may not catch on in the long run.
- Ray N6HE bought a Connect Systems CS800D VHF/UHF DMR mobile transceiver on sale and is prepping it for installing it in the SUV.
- Carlos WD6Y described his progress on the long road to his having a 432 MHz moonbounce station.
- Don WG6E continues building a beautiful shack; SteppIR is still not assembled.

The Group also discussed how "Life" is more complicated and time-consuming these days. The desire to mess with electronic gadgets and make things work, previously almost exclusively the realm of ham radio, has been diluted by the electronic gadgets we all have in our "normal" lives now (wi-fi, Bluetooth, smart phones, etc.) ■

## Hams provide communication at Conquer the Bridge

Labor Day, Sept. 2, was the 11th annual Conquer the Bridge race with nearly 4,000 registered runners and walkers at this 5.3 mile event. Ham operators again provided communication from various points on the course.

The race started at 7:00 AM on Harbor Blvd. at 5th Street, went north on Harbor Blvd. to the Vincent Thomas bridge, then up and over the bridge to Navy Way on Terminal Island. The race turns around and then comes back over the same roads.

This year's fastest runner was a male who finished in 28 minutes; the final walker finished at 9:39 AM. The race went well with only a few minor injuries.

The radio operators this year were Herb KO6RC, Bob W6HIP, Bob AC6RM, Matthew N6MDC, Glenn KJ6ATN, Dave WA6PHS, Ralph AI6GP, Dave K9DBA, Ginger KG6TAU, Steve KI6TEQ, Cynthia AG6NW and Walt K1DFO. ■



**Above:** The Vincent Thomas Bridge over Los Angeles Harbor.  
PHOTO CREDIT: Creative Commons license, <https://commons.wikimedia.org/wiki/File:VTbridge2009.jpg>

## PVARC Club News

### Consider being an ARRL member

Please consider joining the American Radio Relay League (ARRL) if not currently a member. The ARRL is the only national organization representing amateur radio and has another significance for the PVARC: We receive benefits from being an ARRL-affiliated club. But being an ARRL-affiliated club requires at least 51% of club members also be ARRL members. Annual ARRL membership costs \$49 and includes the monthly QST magazine as well as access to numerous web-based materials and assistance with ham radio issues. Visit: [www.arrl.org/](http://www.arrl.org/) then click "Join/Renew." ■

### PVARC badges await pickup at next monthly meeting...or another time

Gary Lopes, WA6MEM, has the following new PVARC badges ready for distribution at our September 5, 2019, monthly meeting at Hesse Park or by special arrangement.

- K6MU
- KI6YMD
- NJ6I

To make special arrangements with Gary (or to order a badge) contact him at: [wa6mem@cox.net](mailto:wa6mem@cox.net). ■

### Embroidered PVARC patches available at monthly meetings

PVARC club patches are available at our monthly meetings for \$4 each. They may be sewn on any cap, jacket, shirt, or bag.

The four illustrations in the patch center are emblems of the Palos Verdes Peninsula's four cities (clockwise from top left: Palos Verdes Estates, Rolling Hills Estates, Rancho Palos Verdes and Rolling Hills.) ■



## 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 Bob Sylvest, AB6SY
Past Vice President	

### Appointed Offices:

QRO Editor	Diana Feinberg, AI6DF
Webmaster	Kel Vanderlip, W6KCV
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

### Contacts:

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Email us: [k6pv@arrl.net](mailto:k6pv@arrl.net)

Website: [www.k6pv.org](http://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 July and December in 2019) 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"):

**PVARC:** K6PV, 447.120 MHz

- **Analog FM:** (-), PL 100.0, CTCSS
- **Digital DMR:** 447.120 MHz (RX); 442.120 MHz (TX)  
Talkgroup 31060, Color Code 1, Time Slot 2

**"PV-West":** W6MTA, 449.980 MHz (-), PL 173.8, CTCSS

### To order a Club badge:

Gary Lopes, WA6MEM, [wa6mem@cox.net](mailto:wa6mem@cox.net)

### To order a Club jacket or patch:

Dave Scholler, KG6BPH, 310-373-8166

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Front page photo — Pt. Vicente Lighthouse 20 minutes before sunset on August 3, 2019. PHOTO: DIANA FEINBERG, AI6DF

## PVARC Club News

### PVARC upcoming dates in 2019

- ◆ **PVARC monthly meeting at Hesse Park, McTaggart Hall**  
1st Thursday each month, 7:30-9:30 pm, except in August and December. 6:30-7:25 pm, "What's Next?" group for newer hams and "DMR Basics".  
In 2019 only: No monthly meeting on July 4 due to Independence Day; special meeting August 1.
- ◆ **HF Enthusiasts Group meetings at Palos Verdes Library, Peninsula Center main branch**  
2nd Saturday every month, 10 am to Noon in the Purcell Room.
- ◆ **Walt Ordway, K1DFO, Technician and General amateur radio license classes at Hesse Park**  
Saturdays, November 2 and 9, 2019; license exam, November 16.
- ◆ **Public service events in 2019:**  
**Palos Verdes Half Marathon-10K-5K**, Nov. 16.
- ◆ **PVARC 2019 Holiday Dinner:** Dec. 12, Los Verdes Golf Course, Rancho Palos Verdes.

#### Non-PVARC Events of Note:

- ◆ **W6TRW Swap Meet:** last Saturday of each month, Northrop Grumman Space Park, North Redondo Beach, 7:00-11:30 am.
- ◆ **PACIFICON** (ARRL Pacific Division Convention) October 18-20, San Ramon, CA. ■

### Amateur Radio provides communication support at RHE Hills Are Alive 10K/5K

Many ham operators provided radio communications on August 10 for the 38th annual Rolling Hills Estates Hills Are Alive 10K & 5K races. Over 300 runners were in the two events. The good news was no runners got injured in the event although some very bad signage near the Botanic Gardens sent a bunch of 10K runners the wrong way.

The number of runners for this event has been getting lower each year. It will be interesting to see if they schedule a 2020 race.

Hams supporting this year's event were: Bob W6HIP, Mike K6HF, Herb KO6RC, Ginger KG6TAU, Sid KF6QFH, Fran KF6QFQ, Steve KI6TEQ, Mike KK6KCH, Jeff KD6BWV, Ralph AI6GP, Matthew N6MDC, Judy KM6RFE, Bob KM6VH, Bob AC6RM, Richard KJ6CBA, Dave WA6PHS, Jay KI6FVY, Melody KI6SPA, Cynthia AG6NW and Walt K1DFO. ■

### WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2018-2019

Neal Pollack, N6YFM  
Daniella Ward, KM6TRC  
Talbot Knighton, KM6TDF  
Dylan Brown, KM6TDI  
Robert Cullinan, NJ6I  
Ellen Tessitore, N6XJM  
Michael Vulpilat, KJ6RVU  
Brian Clebowicz, K6BRN  
Warren Arata, KM6YGR  
Chris Sundlee, N6CGS  
Brad Rachielles, KC6NNV  
Georgiann Keller, KM6YGM  
Annalise Little, KM6YGS  
Tim Couture, KM6QWA  
Frank Brown, KM6YGQ  
Charlie Hansen, AJ6HZ  
Diana DiDomenico, KM6IQN  
William McClure, W7QLI  
Rick Shigio, K6RTS  
David Calloway, K6DKC  
Jon Kuroyama, K6LDQ  
Ray Grace, WA6OWM  
Robert Keller, K9BGC  
Alex Marko, KD6LPA

## PVARC Calendar

September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<b>1</b>	<b>2</b> Public service event: "Conquer the Bridge" race across Vincent Thomas Bridge, Los Angeles Harbor	<b>3</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>4</b>	<b>5</b> PVARC meeting at Hesse Park: 6:30 pm: What's Next, DMR basics 7:30 pm: Main meeting	<b>6</b>	<b>7</b>
<b>8</b>	<b>9</b>	<b>10</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b> PVARC HF Enthusiasts Group, 10 am-Noon, Palos Verdes Library Peninsula Center Purcell Room
<b>15</b>	<b>16</b>	<b>17</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>22</b>	<b>23</b>	<b>24</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b> W6TRW Swap Meet, 7:00-11:30 am at Northrop Grumman, North Redondo Beach.
<b>29</b>	<b>30</b>					

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 (2<sup>nd</sup> level)

Each course is 2 sessions

The sessions will be on 2 and 9 November 2019

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

**General** 1:45 PM to 5:00 PM both Saturdays

The FCC tests will be 10:30 AM to noon on 16 November 2019

At the start of the 2 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, CA 90275

**Confirm your attendance to Walt, K1DFO at [waltordway@juno.com](mailto: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,

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

Paper copy of Walt's Power Point charts,

\$22 for the Technician and \$18 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.



## Community Emergency Response Training

Training Classes starting  
Saturday October 5, 2019

C.E.R.T. TRAINING IS COMING TO PALOS VERDES  
SIGN UP NOW!  
**FREE!**

The **Los Angeles County Fire Department** is proud to present this training to the public.

Following a major disaster, police, fire, and medical personnel may not be able to fully meet the demand. People will have to rely on each other to meet immediate life saving and life sustaining needs.

Developed through FEMA, the L.A. County Fire Department's **Community Emergency Response Training (CERT)** program provides basic training in safety and life saving skills for the public.

The course curriculum covers the following modules:

Saturday, October 5	Saturday, October 12	Saturday, October 19
1. Disaster Preparedness 2. Disaster Fire Suppression 3. Disaster Medical Ops 1	4. Disaster Medical Ops 2 5. Light Search & Rescue 6. Disaster Psychology	7. CERT Organization 8. Terrorism 9. Course Review & Disaster Simulation Exercise

The training course will be a series of three classes on:  
**October 5, 12 & 19<sup>th</sup> from 9:00 a.m. to 4:30 pm**

**Fred Hesse Park  
29301 Hawthorne Blvd,  
Rancho Palos Verdes, CA 90275**

C.E.R.T. training is free

Sign up by emailing [cheryldaw@gmail.com](mailto:cheryldaw@gmail.com) or 310 228-7803

Please include your name, phone number, and email address.

Class size is limited. Sign up today to reserve your seat.

CERT Class information is also posted on the Fire Department website: <http://fire.lacounty.gov>

\*Students must complete all 20 hours of the course to receive a certificate of completion. If you must miss any units, you can make them up anywhere CERT is taught to receive your certificate.



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 (\$20.00) \$ \_\_\_\_\_

Household and/or Family membership (\$25.00) \$ \_\_\_\_\_

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: \_\_\_\_\_