



# QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

OCTOBER 2019



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**"I'm here from the  
government and I'm  
here to...(you fill in the  
blank)"**

**Telecommunications Attorney  
Jonathan Kramer, W6JLK**

**Thursday, October 3, 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  
presentation

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

## PVARC's upcoming meeting topics...

The PVARC's October 3 monthly meeting has an unusual speaker. Noted telecommunications attorney Jonathan Kramer, W6JLK, of Santa Monica will present what he calls "I'm from the government...and I'm here to....." (*you 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 radio frequency transmission safety guide, Jonathan regularly deals with RF safety concerns raised by the public, mainly in connection with cell towers.

First licensed as a Novice in 1971 Jonathan has been an Amateur Extra Class operator for the past 20 years. He also holds five other FCC licenses/endorsements, a California communication contractors license, and is an appointed Volunteer Counsel (attorney) for the ARRL Southwestern Division. You won't want to miss this interesting speaker.



Jonathan Kramer, W6JLK

The PVARC November meeting topic is about Amateur Radio on the International Space Station presented by Brian Johnson, AB6UI, along with Norm Thorn, K6UU—both ARISS coordinators for Southern California.

**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...with a guest speaker and after-dinner prize drawings. You might come away with a prize exceeding the cost of your dinner. See the invitation and RSVP on the next page. ■



## Get CERT trained now

Twenty seats are still available for free Community Emergency Response Team (CERT) training at Hesse Park on Saturdays, October 5-12-19 (see the flyer on page 12). If you haven't taken CERT training this is a great opportunity to do so...or take the CERT program again as a refresher. Your **QRO** Editor took CERT training at Hesse Park in early 2005 and has found the knowledge gained extremely worthwhile.

Los Angeles County Fire Department instructors teach this valuable program that helps residents respond to disaster situations in their homes and those of neighbors. Among other things, CERT students will extinguish live fires (in fire pans) under Fire Department supervision, learn when situations are safe (or unsafe) for volunteers or homeowners to render aid, and develop basic first aid skills at stopping bleeding or splinting broken bones.

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. To register for the October 5-12-19 course email to: [cheryldaw@gmail.com](mailto:cheryldaw@gmail.com). ■



## Please Join Us at the Palos Verdes Amateur Radio Club 2019 Holiday Dinner

Los Verdes Golf Course

7000 W. Los Verdes Drive, Rancho Palos Verdes, CA

Thursday, December 12, 2019

### Dinner Buffet:

Garden Salad with choice of two dressings

Spinach Salad with Feta Cheese and Pine  
Nuts

Fresh Fruit Platter

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

#### 2019 Holiday Dinner

Los Verdes Golf Course, Rancho Palos Verdes  
Thursday, December 12, 2019

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:

**Palos Verdes Amateur Radio Club**

**PO Box 2316**

**Palos Verdes Peninsula, CA 90274**

Or pay via **PayPal** to: **PVARC90274@gmail.com**  
(List name and number attending in Message to  
Recipient)

*(All donations are applied towards club expenses  
for the evening.)*



## If it's Fall it's time for disaster preparedness and amateur radio

By Diana Feinberg, AI6DF  
QRO Editor

If you do not belong to a disaster amateur radio group now is the time of year to join one and further ham radio's ability to provide communication "When All Else Fails."

The Fall months have long been disaster preparedness season: the weather then is usually nice and numerous disaster prep expos and events happen each month. For example, September is designated "National Preparedness Month" by the Federal Emergency Management Agency; mid-October is always the Great California ShakeOut (this year on October 17 at 10:17 am); and November is when all hospitals in California participate in the Statewide Healthcare and Medical Exercise. Ham operators participate in many of these exercises to train for their role providing back-up emergency communication.



It's important for hams to train since our primary threats—earthquakes—have no advance warning.

*Continued on next page ►*

**Left:** The City of Long Beach held its annual "Ready Long Beach" event outside the Walter Pyramid arena at Cal State University Long Beach on September 28, 2019. Note the "rock concert" type rigging and stage with 14-foot television screen. Dozens of exhibitors and thousands of people were there.

**Below:** Also at "Ready Long Beach"...these massive fire trucks with 100-foot ladders and platform nozzles were from Marathon Oil's Carson refinery (formerly ARCO) and the truck at right from Marathon's Wilmington refinery. The radio mast in the center is on the LA Sheriff's Department mobile communications truck, partly staffed by DCS members for the event.

PHOTOS: DIANA FEINBERG, AI6DF



## If it's Fall it's time for disaster preparedness and amateur radio

► *Continued from previous page*

Besides the "Ready Long Beach" expo on September 28 with five amateur radio groups having exhibits there were similar though smaller events held by the City of Downey and in the Eastern San Fernando Valley. On October 12 there's a massive disaster prep expo in Northridge for the SF Valley with significant ham radio presence and on Sunday, October 27, the PVARC will be one of four ham radio groups exhibiting at the Prepared Peninsula disaster readiness expo inside the Norris Pavilion on Indian Peak Road in Rolling Hills Estates.

Looking for a disaster amateur radio group to join? Here are some choices in the South Bay depending on your residence or work location. Be advised that training and other opportunities vary by organization:

- Rancho Palos Verdes' Peninsula Volunteer Alert Network (PVAN): <http://n6rpv.net/pvan/>
- Palos Verdes Estates Neighborhood Amateur Radio Team (NART): [http://www.palosverdes.com/nart/nart\\_website/Welcome.html](http://www.palosverdes.com/nart/nart_website/Welcome.html)
- Torrance Amateur Radio Association (TARA): <http://taranet.org/>
- L.A. County Disaster Communications Service (Lomita / So. L.A. Sheriff Stations, DCS): <https://www.qsl.net/lmtdcs/>
- Los Angeles City Fire Dept. Auxiliary Communication Service (ACS): <http://lafdacs.org/>
- Manhattan Beach CERT: <http://mbcerta.org/>
- ARRL Amateur Radio Emergency Service (ARES) at hospitals: <http://www.arrllax.org/index.php?page=ares>

Hopefully one or two of these disaster amateur radio groups will work for you. ■

## ARRL Official Observer program ended September 30... ...new ARRL-FCC Volunteer Monitor program starts October 1

After nearly 85 years the ARRL's Official Observer program completed its work on September 30, 2019. The OO program enabled selected Observers to contact other hams for ensuring operating compliance with Federal Communication Commission rules...and to recognize outstanding operation.

Replacing the Official Observer program is a new ARRL/FCC initiative known as the Volunteer Monitor program which took effect on October 1, 2019. Volunteer Monitors are carefully vetted and will extensively monitor bands to provide documentation of non-compliant operation which the ARRL will route to the FCC for potential action. Unlike the OO program Volunteer Monitors will have access to remote receiver sites for expanding their monitoring footprint...and Volunteer Monitors will not have any direct contact with non-compliant hams.

Over 200 Volunteer Monitor applicants were interviewed by VM Program Administrator Riley Hollingsworth, K4ZDH and formerly FCC Special Counsel overseeing enforcement of the amateur radio service. We wish them well with their new responsibilities and thank the Official Observers for their work. PVARC Vice President Ray Day, N6HE, has been the Official Observer Coordinator for the ARRL Los Angeles Section since 2016 and I personally thank him for his exemplary service. — Diana Feinberg, AI6DF ■



## Pt. Vicente Lighthouse Fresnel lens now on display at PVIC

Until 2013 an International Lighthouse & Lightship Weekend highlight for PVARC members and guests was ascending the Pt. Vicente Lighthouse's spiraling stairs to the magnificent French-built Fresnel lens atop the lighthouse.

This lens was always lit and rotating 24/7, enabling seeing how this early 20th-Century apparatus projected light 26 miles on a clear night. Since April 2019 this lens has been on permanent display at ground-level inside the Pt. Vicente Interpretive Center—although the light is no longer on.

Some background: Due to potential environmental hazards reflecting construction materials in its day Pt. Vicente Lighthouse became progressively off-limits to public access. In 2013 access to the lens room was no longer allowed but we still operated HF radios from the lighthouse ground floor. By 2015 the entire lighthouse interior was cordoned off and our annual ILLW radio operation moved to the nearby museum building.

Several years ago when the U.S. Coast Guard sought to replace Pt. Vicente's Fresnel lens with a modern LED array the City of Rancho Palos Verdes reached an agreement to display the Fresnel lens at PVIC (photo below). The new LED lens only reaches 14 miles on clear nights and simply pulses on-off. The majestic rise-sweep-decay of intense light from the Fresnel lens no longer enchants evening viewers at Pt. Vicente but those vivid beams remain in many of our lighthouse photos. ■

**PHOTO:**  
DIANA FEINBERG, AI6DF  
SEPTEMBER 21, 2019



## Next HF Enthusiasts Group meeting at PV Library is October 12

The PVARC's HF Enthusiasts Group next meets on Saturday, October 12, 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.

Here are a few of the topics discussed at our September 14 HFEG meeting with 11 attendees:

- Carlos WD6Y showed the low-noise amplifier he is building for moon-bounce operation (bottom right photo). It has separate ports for the vertical and horizontal antennas, relays providing 80dB isolation.
- Neal N6YFM discussed different battery characteristics and reported getting an Agilent frequency counter for \$600.
- Mike KK6KCH and others discussed their experiences with lithium iron phosphate batteries
- Clay AB9A discussed the Zumspot hotspot for DMR. On the other hand, he felt the OpenSpot2 provides easier ability to check status via the web.
- Jeff K6JW updated his StepIR HF antenna saga....the relay and controller box need replacement as does an element housing unit.
- Bob AC6RM demonstrated his SDRPlay receiver which covers from 150kHz to 2 GHz as a software defined radio. It now has improved software with a new interface that allows using this receiver also as a spectrum analyzer.
- Diana AI6DF at the meeting opened for the first time the box of a Colibri direct digital sampling HF receiver she won at the 2017 DX Convention in Visalia. She said this receiver appears to be almost the equivalent of a Flex 6400's receiver section—and her Colibri is another case of having too many toys and not enough time to play with them.

Hope you can make it to the next HFEG meeting. ■



Bob AC6RM demonstrated the improved software for SDRPlay receivers.

PHOTO: DIANA FEINBERG, AI6DF



## 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 PVARC badges ready for distribution at our October 3, 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:

QRO Editor: 310-544-2917, [ai6df@arrl.net](mailto:ai6df@arrl.net)

Webmaster: 310-742-6123, [kelvin@vanderlip.org](mailto:kelvin@vanderlip.org)

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 atop its bluffs an hour before sunset on September 27, 2019. PHOTO: DIANA FEINBERG,



## 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. ■

### PVARC team set for 2019 Palos Verdes Half Marathon radio coverage

The PVARC's final 2019 public service event is the Palos Verdes Half Marathon/10K on Saturday, November 16.

Steve Collins, KI6TEQ, is again heading our radio coverage and reports nearly all the needed operator positions are filled. Separately the Half Marathon website (as of September 30) indicates runner registration is already 75% full.

The Palos Verdes Half Marathon is billed as "Southern California's most scenic half marathon" with most of the course—for both runners and radio operators—with in view of the Pacific Ocean. ■

### 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 Kuoyama, K6LDQ  
Ray Grace, WA6OWM  
Robert Keller, K9BGC  
Alex Marko, KD6LPA

## PVARC Calendar

October 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		<b>1</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>2</b>	<b>3</b> PVARC meeting at Hesse Park: 6:30 pm: What's Next, DMR basics 7:30 pm: Main meeting	<b>4</b>	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b> PVARC HF Enthusiasts Group, 10 am to Noon, Palos Verdes Library Peninsula Center Purcell Room
<b>13</b>	<b>14</b>	<b>15</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>16</b>	<b>17</b> The 2019 Great California ShakeOut at 10:17 am; city and county ham radio group drills	<b>18</b> ARRL Pacific Div. 2019 PACIFICON convention, San Ramon, CA (East S.F. Bay)	<b>19</b> ARRL Pacific Div. 2019 PACIFICON convention, San Ramon, CA (East S.F. Bay)
<b>20</b> ARRL Pacific Div. 2019 PACIFICON convention, San Ramon, CA (East S.F. Bay)	<b>21</b>	<b>22</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b> W6TRW Swap Meet, 7:00-11:30 am at Northrop Grumman, North Redondo Beach
<b>27</b> 2019 PREPARED PENINSULA disaster prep expo, 12 noon-3:00 pm in Norris Pavilion, RHE. PVARC, PVAN, NART, DCS have booths.	<b>28</b>	<b>29</b> PVARC weekly net on K6PV repeater & cross-band, 7:30 pm (analog); 8:00 pm (DMR)	<b>30</b>	<b>31</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](http://www.n6rpv.net/pvarc) or [k6pv.org](http://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 \$** \_\_\_\_\_

**PayPal:** \_\_\_\_\_ **Cash:** \_\_\_\_\_ **or Check #:** \_\_\_\_\_ **Date** \_\_\_\_\_ **TOTAL \$** \_\_\_\_\_

**Please make checks payable to: Palos Verdes Amateur Radio Club; Dues based on January 1<sup>st</sup> to December 31<sup>st</sup> year.**

**PayPal payment: Go to [www.paypal.com](http://www.paypal.com), enter recipient name: PVARC90274@gmail.com**

**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:** \_\_\_\_\_