



# QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

JANUARY 2022



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All **QRO** monthly issues since 2007 are on the PVARC website at: [www.k6pv.org](http://www.k6pv.org) in the "Newsletter" tab. Additional club news appears in the emailed PVARC Weekly Bulletin.

## FCC Rules Update – RF Hazard Assessment

**Steve Moreen, KA6UGS**

Live via Webex

**Thursday, January 6, 2022**

**7:15 pm: Webex room opens**

**7:30-9:15 pm: Meeting**

Guests welcome. Email [ai6df@arrl.net](mailto:ai6df@arrl.net) for the Webex meeting link.

Also:

**PVARC HF Enthusiasts Group meeting**, Saturday, January 8, 10:00-11:45 am, via Webex.

**PVARC EmComm Interest Group meeting**, Saturday, January 15, 10:00-11:00 am, via Webex.

## PVARC's upcoming meeting topics...

Our club's **January 6th monthly meeting** will only be held virtually using Webex. A recent surge in COVID contagion makes an in-person hybrid option difficult in January 2022. We remain optimistic our February meeting will allow some to gather at Hesse Park for a hybrid meeting.

Speaking to us live on January 6th from his home near Palm Springs is **Steve Moreen, KA6UGS, on "FCC Rules Update — RF Hazard Assessment"**.

Effective June 1, 2020, the FCC revised rules and regulations concerning assessing human exposure to radio transmitting stations. However, changes to the existing rules were delayed until May 3, 2021 and existing stations have until May 3, 2023 to comply. New stations (including new hams) must comply after May 3, 2021.

Before the new rules went into effect most amateurs were able to use a Categorical Exclusion to the FCC requirement to reevaluate if a station fell under the Maximum Permissible Exposure limit. The revised rules revision replaced Categorical Exclusions with a new mechanism called Exemptions to Routine Evaluation. The Exemptions are based upon frequency, power, and distance.

Along with Steve's presentation he has prepared an on-line Exemption Calculator worksheet which enables amateur radio station operators to determine if the FCC's new exemption applies and provides the associated documentation. If the station does not meet the exemption qualification, the presentation provides a step-by-step guide in how to use existing on-line resources to calculate if a station falls within exposure limits set by the FCC.

Steve was first licensed as an amateur in 1966. He holds an Extra Class Amateur license, a General Class Radiotelephone license and recently retired from a 53 year career in radio/television/satellite communications technology.

Our meeting topics for **February and March** are being finalized as of this writing. ■

### **PVARC Officer and Director elections are at February monthly meeting, additional nominations taken at January meeting**

Our club annually elects its Officers and Directors at the February PVARC monthly meeting. In advance of that a nominating committee of the Board presents a slate of candidates who have committed to fully serve in their respective responsibility if elected.

Additional nominations will be taken at the January 6th meeting and any contested positions decided by secret ballot at our February 3rd monthly meeting. Uncontested candidates will be affirmed by simple voice vote at the February meeting.

Slated candidates who have committed to serve from February 2022 to February 2023 if elected are:

- For President: Diana Feinberg, AI6DF
- For Vice President: Ray Day, N6HE
- For Secretary: Ron Wagner, AC6RW
- For Treasurer: Georgiann Keller, KM6YGM
- For Director: Clay Davis, AB9A
- For Director: Gary Lopes, WA6MEM ■

## Thank you to our PVARC donors in 2020 and 2021

The Palos Verdes Amateur Radio Club is very appreciative of members' voluntary donations that support club activities and programs. During 2021 these especially covered annual fixed costs such as liability insurance, room rental payments, post office box rental, etc. after we suspended membership dues for the year.

As 2022 begins we are hopeful for resuming many previous activities while continuing programs we've maintained during the pandemic. Thank you to all members for your support, participation, and friendship.

### 2021 PVARC Donors

AB6SY	Bob Sylvest
AB9A	Clay Davis
AF6VT	Mike Caulfield
AI6DF	Diana Feinberg
K1DFO	Walt Ordway
K9BGC	Bob Keller
KC6NNV	Brad Rachielles
KG6BPH	Dave Scholler
KG6RH	Rick Heaston
KG6WVF (SK)	Betsy Adams / Estate of Bill Leighton
KI6EAN	David King
KK6EOS / KK6EOW	Steve and Deborah Marschke
KK6MNO	Henry Bremer
KM6LGX	Dave Turner
KO6MD	Malin Dollinger
N6HE	Ray Day
N6IDN / DK3FF / N6GVP	Ann and Ernst Willert
N6MDC	Matthew Cruse
NG6R	Jerry Kendrick
NJ6I	Robert Cullinan
W6HIP	Bob Closson
W6JBN	James Maxwell
W6OQ	David Hostetler
W6YBW	Chris Storey
WA6MEM	Gary Lopes
WW6WW / KG6BNN	John and Karen Freeman

### 2020 PVARC Donors

AB6SY	Bob Sylvest
AF6VT	Mike Caulfield
AI6DF	Diana Feinberg
K1DFO	Walt Ordway
K6DKC	David Calloway
KI6EAI	Robert King
KI6YMD	Robert Kollar
KK6KCH	Michael Leyba
KM6YGM	Georgiann Keller
KN6FQL	Robert Rodriguez
KO6MD	Malin Dollinger
N6MDC	Matthew Cruse
NG6R	Jerry Kendrick
NJ6I	Robert Cullinan
W6GEZ	Tony Bressickello
WW6WW / KG6BNN	John and Karen Freeman

If we inadvertently omitted you please advise the

**QRO** Editor at:

[dfeinberg@att.net](mailto:dfeinberg@att.net)



# PVARC Holiday After-Dinner was a virtual success, despite no food or beverages provided

The PVARC’s December 2, 2021, Holiday After-Dinner celebration in lieu of an in-person dinner wrapped up our 2021 activities.

Among the Holiday Dinner/After-Dinner highlights is the awarding of our annual W6AM Rhombic Award for outstanding service...and the 2021 award went to Malin Dollinger, KO6MD. Malin has held terms as our club Secretary, Vice President, and K6PV Net Control Operator coordinator in addition to being a net control operator himself.

The previous Rhombic Award recipients were also acknowledged for their service and we reported recently learning our 2009 recipient Homer K6HKT, a PVARC member through 2012, became a Silent Key in July 2021.

Additionally five gift certificates from DX Engineering and five more from Ham Radio Outlet, along with an ARRL Handbook, were awarded as prizes to members in attendance.

We are still committed to holding an in-person Holiday Dinner at Los Verdes Golf Course on Thursday, December 8, 2022. Be well and we’ll see you there! ■

Year	W6AM Rhombic Award Recipients
2021	Malin Dollinger, KO6MD
2020	Dave Scholler, KG6BPH
2019	Rocco Lardiere, N6KN
2018	Jerry Kendrick, NG6R
2017	Jeff Wolf, K6JW
2016	Mel Hughes, K6SY
2015	Joe Pace, NZ6L
2014	Walt Ordway, K1DFO
2013	Bob Closson, W6HIP
2012	Dale Hanks, N6NNW
2011	Bill Harper, WA6ESC
2010	Ginger Clark, KG6TAU John Freeman, WW6WW Karen Freeman, KG6BNN
2009	Homer Meek, K6HKT
2008	Dan Colburn, W6DC



**Left:** The PVARC’s Rhombic Award for outstanding club service features a snippet of copper wire from the massive rhombic antenna formerly at the Rancho Palos Verdes station of legendary DXer Don Wallace, W6AM (SK). Until his death in 1985 Don’s rhombic antenna reached all corners of the globe from what is now the Wallace Ranch group of luxury homes at Highridge Road and Crestridge Drive.

*(Note: This photo shows the 2021 Rhombic Award inside protective plastic wrapping.)*

# ARRL to oppose National Forest Service administrative fees for amateur facilities

From the ARRL website,  
12/24/2021

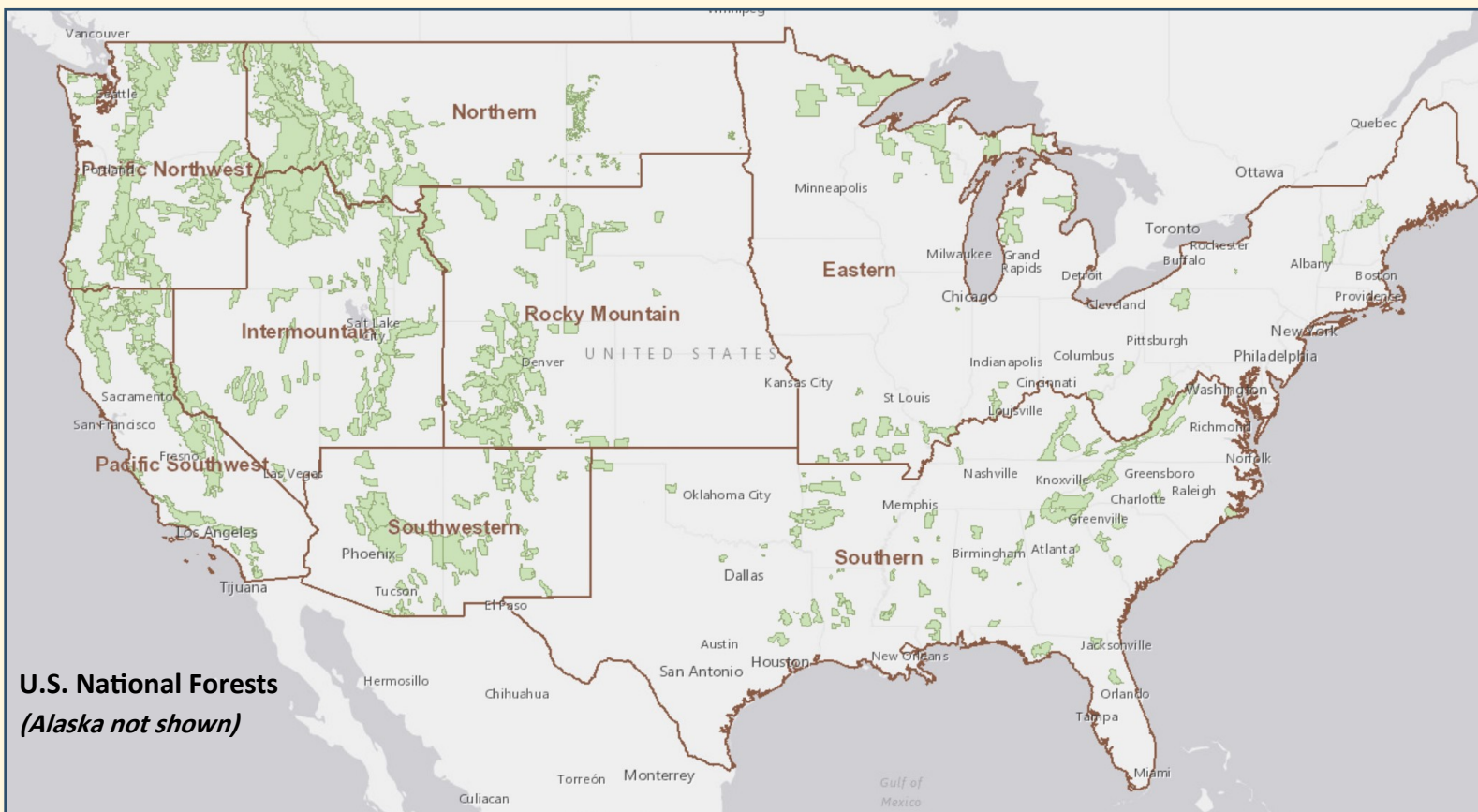
The US Forest Service is proposing to implement a statutorily required annual fee for new and existing communications use authorizations to cover the costs of administering its authorization program. ARRL plans to vigorously oppose the imposition of the proposed fees on Amateur Radio.

The Forest Service proposal results from requirements set forth in the Agriculture Improvement Act of 2018 (aka “the Farm Bill”). Specifically, section 8705(c)(3)(b) of the Farm Bill directs the Forest Service to issue regulations that require fees for issuing communications use authorizations based on the cost to the Agency for maintenance or other activities to be performed by the Agency “as a result of the location or modification of a communications facility.”

The Forest Service is responsible for managing Federal lands and authorizes the use and occupancy of National Forest System (NFS) lands for communications facilities that provide communications services for adjacent rural and urban communities. The Agency said in its proposal that it administers more than 3,700 special use authorizations on NFS lands for infrastructure that supports more than 10,000 wireless communications uses at 1,367 communications sites.

*Continued on next page* ►

**Below (QRO Editor’s illustration):** Over 85% of U.S Forest Service lands (green areas) are in 11 Western states plus Alaska. Most U.S. hams elsewhere and their respective elected officials are unaffected by proposed \$1,400 annual administrative fees on amateur radio repeaters and other wireless communication uses in national forests. MAP CREDIT: <https://www.fs.fed.us/mapfinder/>





# ARRL to oppose National Forest Service administrative fees for amateur facilities

► *Continued from previous page* According to the Forest Service Notice published in the December 22, 2021 issue of the Federal Register, revenues from the proposed fee “would provide the funds necessary to support a more modernized, efficient, and enhanced communications use program,” and will “cover the costs of administering the Agency’s communications use program.” Costs, as laid out in section 8705(f)(4) of the Farm Bill, may include expenditures for such things as “on-site reviews of communications sites, developing communications site management plans, hiring and training personnel for the communications use program, conducting internal and external outreach for and national oversight of the communications use program, and obtaining or improving access to communications sites on NFS lands.”

ARRL encourages Amateur Radio licensees to file comments opposing the imposition of the proposed administrative fee on Amateur Radio users. Comments must be received in writing by no later than February 22, 2022. Comments may be submitted online at the Federal Rulemaking Portal or via USPS mail to Director, Lands & Realty Management Staff, 201 14th Street SW, Washington, DC 20250-1124, and must include the identifier “RIN 0596-AD44.” ■

**QRO Editor’s Illustration:**

Major hilltop amateur repeater sites subject to proposed administrative fees in National Forests of Southern California

MAP IMAGE: [HTTPS://WWW.FS.FED.US/MAPFINDER/](https://www.fs.fed.us/mapfinder/)

DATA PLACEMENT: DIANA FEINBERG, AI6DF

**LOS PADRES NATIONAL FOREST**

- A. Mt. Pinos
- B. Frazier Mtn.
- C. La Cumbre Peak
- D. Broadcast Peak
- E. Santa Ynez Peak

**ANGELES NATIONAL FOREST**

- F. Contractors Point
- G. Mt. Lukens
- H. Mt. Disappointment
- I. Mt. Wilson
- J. Johnstone Peak
- K. Sunset Ridge

**SAN BERNARDINO NATIONAL FOREST**

- L. Blue Ridge
- M. Snow Peak

**CLEVELAND NATIONAL FOREST**

- N. Pleasants Peak
- O. Santiago Peak
- P. Palomar Mountain
- Q. Monument Peak
- R. Mt. Laguna





## Continuing something new: Random Accomplishments by PVARC Members during the past month...in 35 words or less

*Laura, KA6LJR, and Marlee, KA6MJR, each recently achieved DXCC status for having worked over 100 DX entities.*

*Ray, N6HE, and XYL Donna, W6DLD, were featured in the ARRL's January 2022 QST magazine (page 20) for their photo and brief encounter with a boat named "Morse Code" along Long Beach's Alamitos Bay.*

**Left:** Morse Code at a Long Beach-area dock as seen from harbor cruise with N6HE and W6DLD aboard.

PHOTO: DONNA DAY, W6DLD

### **QRO Editor's Note (photos below) —**

CQ CQ CQ...also named Morse Code this 58-foot Kadey-Krogen yacht in South Florida is currently offered for sale at \$1,995,000. BK and QSL, anyone?

PHOTO CREDITS: <https://www.yachtworld.com/yacht/2016-kadey-krogen-58-extended-bridge-7823793/>



## PVARC Club News

### Become an ARRL member: Support amateur radio while increasing your learning

Please consider joining the American Radio Relay League (ARRL) if not 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 an ARRL-affiliated club requires at least 51% of club members also be ARRL members.

Annual ARRL membership costs \$49 and includes your choice of the printed monthly **QST** magazine or the ARRL's new **On The Air** magazine for newer hams. Both are available electronically to all ARRL members plus free online access to ARRL's two other publications, **QEX** and **National Contest Journal**. Additionally all ARRL members can access numerous web-based materials, ARRL staff, and assistance with ham radio issues. Visit: [www.arrl.org/](http://www.arrl.org/) then click "Join/Renew." ■

### Need a PVARC badge?

If you wish to order a new or replacement engraved PVARC badge please contact Gary Lopes at [wa6mem@cox.net](mailto:wa6mem@cox.net) and he will make arrangements for your payment and sending your new badge. Badges currently cost \$13. ■

### Embroidered PVARC patches still available

PVARC club patches are still available by special arrangement for \$4 each. They may be sewn onto 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.)



During our period of virtual meetings if you would like a patch contact Diana, AI6DF, [ai6df@arrl.net](mailto:ai6df@arrl.net) and we'll find a way to get your patch to you. ■

## 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	Georgiann Keller, KM6YGM
Secretary	Ron Wagner, AC6RW
Directors	Clay Davis, AB9A
	Gary Lopes, WA6MEM
Past Vice President	Bob Sylvest, AB6SY

### Appointed Offices:

<b>QRO</b> Editor	Diana Feinberg, AI6DF
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	Ron Wagner, AC6RW; Dale Hanks, N6NNW; Bob Sylvest, AB6SY; Malin Dollinger, KO6MD; Dave Turner, KM6LGX; Jerry Shaw, KI6RRD; Gary Lopes, WA6MEM; Clay Davis, AB9A; and Guest Operators

### Contacts:

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

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 Meeting (Hybrid format):

1<sup>st</sup> Thursdays at 7:30 pm via Webex and limited in person at Hesse Park.

### 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 after sunset on December 4, 2019.

PHOTO: DIANA FEINBERG, AI6DF



## PVARC Club News

### PVARC upcoming dates in 2022

- ◆ **PVARC hybrid monthly meetings online via Webex and at Hesse Park**  
1st Thursday each month, 7:30-9:15 pm, except in December  
*(in-person meetings to resume at Hesse Park's McTaggart Hall on limited scale)*
- ◆ **PVARC HF Enthusiasts Group meetings online via Webex or in-person**  
2nd Saturday each month, 10:00 am to Noon  
*(in-person meetings at Palos Verdes Library main branch's Purcell Room when permitted)*
- ◆ **PVARC EmComm Interest Group online meetings via Webex**  
3rd Saturday every month, 10:00-11:00 am or 11:00 am-Noon (time varies with radio events that day)
- ◆ **Walt Ordway, K1DFO, Technician and General amateur radio license classes at Hesse Park**
  - February 5 and 12, 2022; **VE Test**, Feb. 19
  - May 7 and 14, 2022; **VE Test**, May 21
- ◆ **Public Service Events:** TBA
- ◆ **PVARC 2022 Holiday Dinner**, Dec. 8, Los Verdes Golf Course.

#### Non-PVARC Events of Note:

- ◆ **W6TRW Swap Meet, last Saturday each month. 7:00-11:30 am.** Northrop Grumman parking lots, Aviation Blvd./Marine Ave., North Redondo Beach
- ◆ **Claremont Amateur Radio Society Swap Meet, 3rd Saturday each month (except December), 6:00-11:00 am.** Granite Creek Community Church, 1580 N. Claremont Blvd., Claremont
- ◆ **Yuma Hamfest / ARRL Southwestern Division Convention**, Feb. 18-19, 2022. Yuma County Fairgrounds, Yuma, AZ [www.yumahamfest.com/](http://www.yumahamfest.com/)
- ◆ **Orlando Hamcation / ARRL National Convention**, Feb. 11-13, 2022. Central Florida Fairgrounds, Orlando, FL. [www.hamcation.com](http://www.hamcation.com)
- ◆ **Dayton Hamvention**, May 20-22, 2022. Greene County Fairgrounds, Xenia, OH. <https://hamvention.org/> ■

### WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2020-2021

Ikue Duncan, KN6FYW  
 Judy Frankel, KN6FYU  
 Robert Sawyer, KG6SFQ  
 Heidi Gransar, KN6HVG  
 Bruce Ward, KN6HVI  
 David Salazar, KE6GFR  
 Ed Jenkins, K6EXY  
 David Hostetler, W6OQ  
 Robert Rodriguez, KN6FQL  
 Yaniv Waisman, KN6HSJ  
 Jeff Remington, KA6JMR  
 Laura Remington, KA6LJR  
 Marlee Remington, KA6MJR  
 Dennis Lau, K5LAX  
 Larry Waldstein, KC6PCC  
 Sergio Fernandez, WA6WV  
 Tim King, KN6RTY

## PVARC Calendar of Events

January 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 New Year's Day
2	3	4 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	5 PVARC DMR weekly net on K6PV repeater 7:30-7:55 pm	6 PVARC Monthly Meeting via Webex 7:30-9:15 pm	7	8 PVARC HF Enthusiasts Group Meeting, 10:00-11:45 am via Webex
9	10	11 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	12 PVARC DMR weekly net on K6PV repeater 7:30-7:55 pm	13	14	15 PVARC EmComm Interest Group Meeting, (Webex) 10:00- 11:00 am
16	17	18 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	19 PVARC DMR weekly net on K6PV repeater 7:30-7:55 pm	20	21	22
23	24	25 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	26 PVARC DMR weekly net on K6PV repeater 7:30-7:55 pm	27	28	29 W6TRW Swap Meet, Northrop Grumman, N. Redondo, 7:00-11:30 am
30	31					



Electronic fill & save PDF version of this form is at:

[http://www.n6rpv.net/n6rpvpage/pvarc/membership\\_form.pdf](http://www.n6rpv.net/n6rpvpage/pvarc/membership_form.pdf)



**Palos Verdes Amateur Radio Club**

P.O. Box 2316

Palos Verdes Peninsula, CA 90274

<http://www.k6pv.org>

**MEMBERSHIP FORM**

New

Renew

Date \_\_\_\_\_

Last Name \_\_\_\_\_ First \_\_\_\_\_ Spouse \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_

Email address \_\_\_\_\_

*(Unless otherwise noted, emails will be sent to the applying member only)*

License Call \_\_\_\_\_ Class \_\_\_\_\_ ARRL Member?

Other amateur radio groups you belong to \_\_\_\_\_

Additional Household and/or Family Members (if Applicable):

Last	_____	First	_____	Call	_____	Class	_____	ARRL?	<input type="checkbox"/>
Last	_____	First	_____	Call	_____	Class	_____	ARRL?	<input type="checkbox"/>
Last	_____	First	_____	Call	_____	Class	_____	ARRL?	<input type="checkbox"/>

Membership (\$20 Individual, \$25 Family) \$ \_\_\_\_\_

(Optional) donation to support PVARC activities \$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

Paypal to recipient  
PVARC90274@gmail.com  
Go to [www.paypal.com](http://www.paypal.com)

Cash

Check made payable to  
Palos Verdes Amateur Radio  
Club

Check # \_\_\_\_\_

Please email completed form to [PVARC.Membership@gmail.com](mailto:PVARC.Membership@gmail.com) or print and mail to the address at top. Dues based on January 1st to December 31st year.  
By submitting this application/renewal you agree to the Club's constitution and by-laws, available on-line at: <http://www.n6rpv.net/n6rpvpage/pvarc/constitution.pdf>.

## Two Free Amateur Radio Courses

**ALL FOLKS MUST WEAR A MASK EVEN IF VACCINATED**

FCC "Technician" course (entry level)

FCC "General" course (2<sup>nd</sup> level)

Each course is 2 sessions

The sessions will be on 5 and 12 February 2022

Technician 9:30 AM to 1:15 PM both Saturdays (bring your lunch)

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

The FCC tests will be 10:00 AM to noon on 19 February 2022

At the start of the 5 February Technician course, a member of the Palos Verdes Amateur Radio Club will give a 30-minute presentation on how to get further involved in 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 [wfordway@juno.com](mailto:wfordway@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,

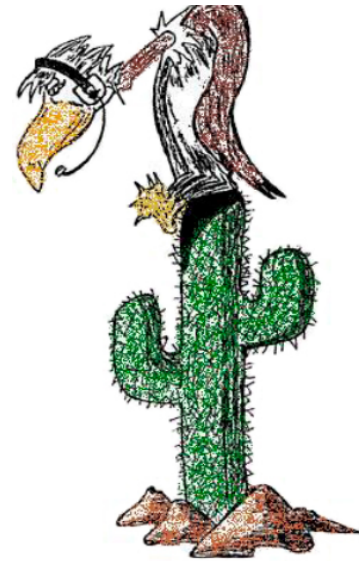
\$22 for the Technician and \$20 for the General

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.



***Yuma Hamfest***  
***& Southwestern***  
***Division Convention***  
***Yuma, Arizona***  
***Feb. 18 & 19, 2022***



Yuma County Fairgrounds  
 2520 East 32<sup>nd</sup> Street, Yuma, Arizona

***[www.yumahamfest.org](http://www.yumahamfest.org)***

Check the Website for Additional Information

<p>Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon</p>	<p>Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm</p>	<p>Hamfest Dinner &amp; Grand Prize Drawing Saturday Night 6:00 - 8:00 pm</p>
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**Vendors and Exhibitors**

**Hourly Door Prizes**

**Consignment Sales**

**License Testing**

**On-site RV Camping**

**Buzzard BBQ**

**ARRL Speakers**

**Transmitter Hunt**

**Near Space Balloon Launch**

**Tailgating (Swap Meet)**

**\$10 Admission**

**DXCC Card Checks**

**Full Seminar Schedule**

**\$25,000 + Grand Prizes**

**Admission Prizes**

**Hospitality Area**

**Antenna Clinic & T-hunt**

**On-site Food Concessions**

**W1AW/7 Special Event Station**

**Email: [info@yumahamfest.org](mailto:info@yumahamfest.org)**