



QRO

MONTHLY NEWSLETTER OF THE PALOS VERDES AMATEUR RADIO CLUB

NOVEMBER 2020



Inside this month's QRO

Upcoming monthly meeting speakers	2
What 2021 will bring for the PVARC	3
RPV City Council approves amended amateur antenna ordinance	4
Where Los Angeles-area VHF/UHF repeaters are, or aren't	5-6
ARRL urges hams to oppose FCC license fees proposal	7
PVARC club news	8-9
PVARC November 2020 calendar of events	10
PVARC 2021 membership renewal / application form	11

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

RTTY—"Radio Teletype" from the past to the present

Daniel Jones, K6YIC
and Ray Day, N6HE

"The Sport of Finding Hidden Transmitters"

Robert Frey, WA6EZV

Thursday, November 5, 2020

7:15 pm: Webex meeting room opens

7:30-9:00 pm: Meeting and presentations

Guests welcome: email to ai6df@arrl.net for the Webex meeting link.

We are using Webex video conferencing for all PVARC meetings until conditions permit safely resuming in-person events.

PVARC's upcoming meeting topics...and a Holiday "After-Dinner" replacing our Holiday Dinner

The PVARC's November 5 monthly meeting via Webex covers two diverse subjects.

First up, a fascinating tour of RTTY (radio teletype) that's been a staple on HF bands for decades and now even easier to use with built-in RTTY decoders on newer HF transceivers or with free/low-cost computer software.

Presenting first will be Daniel Jones, K6YIC, of Eastvale in Riverside County who has been fascinated with electro-mechanical teleprinters since his U.S. Navy experiences repairing these devices. Today Daniel is active with the Battleship Iowa's "Gray Radio Gang" restoring that ship's vintage communication equipment.

Daniel will give a comprehensive view of RTTY's concepts that still prevail today while illustrating some historic electro-mechanical teleprinters and their punched paper tape mechanisms. Military communication made extensive use of mechanical teleprinters for nearly 70 years through the 1990's. Other uses were by ham radio operators, news organizations, weather networks, air traffic control, and corporate leased-line circuits.

Following Daniel's presentation is a short video by PVARC Vice President Ray Day, N6HE, on modern RTTY as used during our 2018 Islands On The Air DXpedition to Two Harbors, Catalina Island.

We'll also have an interesting ARRL video presentation by Robert Frey, WA6EZV (now living in the Cincinnati, OH area) about hidden transmitter hunting. Although there's a recreational aspect to transmitter hunting a major side-benefit is developing the skills to locate stations causing RF interference (intentional or not.) Robert was a member of the U.S. Amateur Radio Direction Finding national team at the 2000, 2002, 2004, and 2006 World ARDF Championships.

And lastly, for something completely different: On Thursday, December 3—replacing the PVARC's usual Holiday Dinner—is an online Holiday "After-Dinner" where you eat before coming but may bring your dessert and coffee to the computer. There will be a presentation on a lighter amateur radio topic also suitable non-ham family members. As with our usual Holiday Dinner we'll be giving away some ham radio door prizes to those attending. No purchase required, one entry per club member, and we'll make arrangements to get prizes to the winners. See you there. ■



Above: ASR-33 Teletype on display at the Musée Bolo, EPFL, Lausanne, France. Some ham stations still use these 1970's machines with punched paper tapes for RTTY although most hams have migrated to RTTY software using computer soundcards.

PHOTO CREDIT: RAMA & MUSÉE BOLO, CREATIVE COMMONS ATTRIBUTION-SHARE ALIKE 2.0 LICENSE: https://commons.wikimedia.org/wiki/File:Teletype-IMG_7287.jpg#/media/File:Teletype-IMG_7287.jpg

PVARC Board of Directors considers what 2021 will bring—and has some good news for members

The PVARC Board of Directors did some serious thinking at its October meeting on how our club will operate in 2021 owing to pandemic conditions that started this year.

All of us want in-person meetings to resume when conditions permit. But we do not expect that until mid-2021 at the earliest and we now plan to continue PVARC online virtual meetings until an effective coronavirus vaccine becomes available for most of our members. We also need the official green light for gatherings of 50+ persons at Hesse Park meetings and up to 20 persons at monthly HF Enthusiasts Group meetings in the Palos Verdes Library. Both buildings remain closed to the public with no timetable for reopening and social distancing in our meeting rooms would be difficult to implement.

We also scrubbed our February 24-28, 2021, Islands On The Air DXpedition to Two Harbors on Catalina Island. Although a small-group activity with 8 to 10 operators our DXpedition team members must work and eat in very close proximity. They also commonly touch radios, cables, tools, bags, food plates, and other surfaces—not to mention the community restrooms.

Various in-person ham radio events in 2021 have already been canceled, such as the February 12-14 Orlando Hamcation convention (2nd largest in the Western Hemisphere after Dayton Hamvention) and just recently the Yuma AZ Hamfest / ARRL Southwestern Division Convention that was scheduled for February 19-21.

Meanwhile, another QSO Today virtual ham convention is scheduled for mid-March 2021 and the annual International DX Convention usually held during April in Visalia, CA will be a virtual convention in 2021. The 2021 ARRL Field Day in late June quite likely will again be mostly an operate-from-home event. What else happens for ham radio remains to be seen.

So here's our good news: The PVARC Board of Directors has voted to waive all club membership dues for 2021. We say again, free memberships for all in 2021, whether an Individual or Family membership. However, everyone will still need to complete our annual membership renewal form. We do have club expenses in 2021 for liability insurance, PO Box rental, Webex online meeting service, and a few other items—any donations to support these would be greatly appreciated.

Why is PVARC membership free in 2021? It's because we budgeted for many activities in 2020 which the coronavirus did not enable us to provide. We did not incur any expenses for: in-person Hesse Park meetings or ham classes after March 2020; Field Day in June; our annual International Lighthouse Weekend event and family picnic at Pt. Vicente Lighthouse; nor our annual Holiday Dinner at Los Verdes Golf Course. We will provide some free ham radio prizes at our December 3rd virtual Holiday After-Dinner meeting, as mentioned on page 2 in this **QRO** issue.

Class	ARRL	Birth Mo./Day:
Individual membership (2021 only): No charge		
Household and/or Family membership (2021 only): No charge		
Donation to support PVARC activities: \$		
Check #:	Date	TOTAL \$
Palos Verdes Amateur Radio Club; Dues based on January 1 st to December 31 st year.		

Above: a partial view of PVARC's 2021 membership form (full form is at the end of this **QRO** issue and will be on our website.)

Looking ahead to 2021 we won't have any expenses for an IOTA DXpedition to Catalina Island or for in-person meetings until much later in the year. What you can be assured of is our commitment to advancing PVARC members' knowledge and friendships via three virtual meetings each month—our general meetings on 1st Thursdays, our HF Enthusiasts Group meetings on 2nd Saturdays, and our EmComm Interest Group meetings on 3rd Saturdays. Our club also continues providing free technical assistance or guidance to any member requesting it.

Thank you to every PVARC member for supporting amateur radio during these challenging times and we look forward to supporting you on your respective ham radio journey in the years ahead. ■

RPV City Council approves amended ham antenna ordinance that keeps most of the city's 1999 antenna ordinance

By Diana Feinberg, AI6DF
QRO Editor

After three Planning Commission meetings since July and two of its own meetings the Rancho Palos Verdes City Council on October 20 approved an amended amateur radio antenna ordinance that retained much of the existing ordinance. In addition, the city's 10-month moratorium on all new amateur antenna permits was lifted. However, there are some new provisions hams need to be aware of.

As previously reported, a major change made at the Planning Commission's September 22 meeting was retaining city Director of Community Development approval for antenna heights between 16' to 41' and Planning Commission approval only for antennas exceeding 41'. Two earlier amended ordinance drafts proposed having Planning Commission approval for all antennas 28' and above—entailing much higher costs to many permit applicants, even those just needing an effective VHF/UHF antenna. Permits requiring Director approval have about \$330 in fees while permits needing Planning Commission approval involve fees over \$1,300 as well as public hearings.

The City Council also affirmed that "by-right" antennas up to 16-feet above ground or 12-feet above a roofline would continue not requiring any permit or city approval. An earlier draft of the amended antenna ordinance would have reduced "by-right" antennas to those not over 12-feet above ground.

The PVARC Board of Directors maintained RPV's existing 1999 ham antenna ordinance had served well for over 20 years in balancing the needs of amateur radio operators, nearby residents, and the city. The 1999 ordinance resulted from a collaborative effort of several knowledgeable PVARC members living in Rancho Palos Verdes, the City's Director of Community Development, and resident input. The City still recognizes that FCC provisions require providing "reasonable accommodation" to amateur radio antennas.

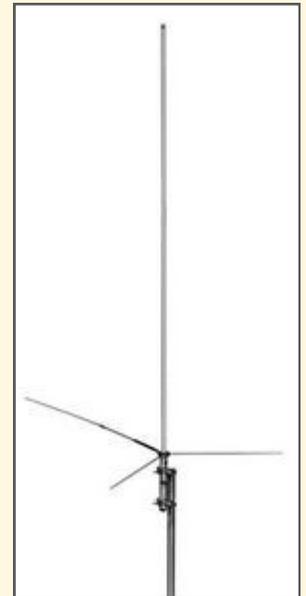
Among new provisions in the approved amended amateur antenna ordinance is codifying the non-transferability of new amateur radio antenna permits to another property owner. This restriction had been written into recent RPV ham antenna permits as a condition.

The biggest change in the new ordinance vs. the 1999 version calls for all antenna permit applications involving heights between 16 to 41 feet above ground to now notify all property owners within a 500-foot radius. The 1999 ordinance only required notifying immediately adjacent property owners. Antenna permits since 1999 already required notifying property owners within 500' for structures over 41'. While the 500-foot notification seems onerous it actually is consistent with many other permit and zoning applications in the city. For example, any permit for a new cellular site in RPV requires notifying all property owners within 500' as does a permit application for a 2nd-story on a one-story home or anything else over 26' feet above ground.

The new ordinance also requires attempting to better minimize visual impacts of new amateur antenna structures, especially if there is any impact to views from other properties.

Lastly, the amended ordinance requires lowering newly-permitted towers to their lowest position when not in use. This poses a technical issue because tower lift cables were not intended for frequent up-down-up cycles.

We are pleased the antenna ordinance is now resolved and the 10-month new permit moratorium lifted. Thank you to all PVARC members who wrote or spoke to the Planning Commission and City Council during this process. ■



Above: The 10½-foot high Comet CX-333 2-meter / 220/440 tri-band antenna costs \$175 and is a good choice for VHF/UHF coverage to provide area emergency communication. But if needed at a two-story RPV home with a 26-foot roof it would have required \$1,300 in permit application fees under the city's initial draft of its amended amateur radio antenna ordinance.

Part 2: Where the Los Angeles-area hilltop VHF/UHF amateur repeaters are...or aren't

By Diana Feinberg, AI6DF
 QRO Editor

The October 2020 QRO issue promised we'll be touring Los Angeles-area VHF/UHF ham repeater hilltops in several future issues. What makes our repeater tours without a bus different is we've geographically re-packaged repeater listings into hilltops rather than by amateur band or frequency.

Today we'll cover hilltop repeaters closest to the South Bay, plus those in Long Beach, Santa Monica Mountains, and on Catalina Island. Ironically, close-in repeaters atop the Palos Verdes Peninsula are sometimes the most difficult for many of us due to the Peninsula's steep terrain. But these repeaters work great away from the Palos Verdes Peninsula. Next month we'll cover Northwest L.A. County repeater sites.

We've combined Private and Closed repeaters with Open repeater listings for showing the ham radio magnitude at key repeater sites. But please do not use a Private or Closed repeater unless you are authorized or belong to the ownership organization. Most prime high-elevation sites have far more commercial, government, and microwave repeaters than amateur systems—and the latter strive to avoid giving or receiving RF interference there.

Continued on next page ►

Below: Principal hilltop communication sites in Los Angeles County's southwestern quadrant (in blue box) have their VHF/UHF amateur repeaters shown on the next page. Only 2-meter, 220, and 440 repeaters are included (some sites also have 900 MHz and 1.2 GHz ham repeaters.) IMAGE: GOOGLE MAPS; REPEATER SITE DATA: DIANA FEINBERG, AI6DF



Where the Los Angeles-area hilltop VHF/UHF amateur repeaters are...or aren't (Part 2) ▶ *Continued from previous page*

The two Santa Monica Mountain commercial telecom sites are heavily loaded with non-ham systems.

Santa Monica Mountains				P=Private		
Frequency	Rpt. Shift	Callsign	Location	O=Open	PL Tone	Owner
147.225	+	K6DCS	Castro Peak	O	94.8	L. A. County DCS District 22
224.340	-	WA6TTL	Saddle Peak	P		GRONK
224.980		K6VGP	Saddle Peak	P		Disaster Amateur Radio Network (DARN)
445.180		WB6ZTR	Saddle Peak	C		
445.420		WD6FZA	Saddle Peak	P		Pocket Autopatch Assn. (PAPA)
445.820		K6VGP	Saddle Peak	P		Disaster Amateur Radio Network (DARN)
445.855		KD6PAP	Saddle Peak	P	D-Star	Pocket Autopatch Assn. (PAPA)
446.080		KD6PAP	Saddle Peak	P	DMR	Pocket Autopatch Assn. (PAPA)
446.260		N6CIZ	Saddle Peak	P		High Mountain Radio System
447.780		W6KGB	Saddle Peak	P		GRONK
447.860		WR6SP	Saddle Peak	P		K7FY

Most ham repeaters on the Palos Verdes Peninsula are at private homes. Two repeaters are at a school and several are on San Pedro Hill.

Palos Verdes Peninsula				P=Private		
Frequency	Rpt. Shift	Callsign	Location	O=Open	PL Tone	Owner
145.380	-	N6RBR	Palos Verdes	O	100.0	
147.195	+	W6NVY	Palos Verdes	O	100.0	
223.780	-	WA6TMJ	Palos Verdes	O	100.0	WALA/PVARS
224.380	-	W6SBA	Palos Verdes	O	192.8	South Bay ARC
224.600	-	K6ZMI	Palos Verdes	O	82.5	K6ZMI QTH
224.660	-	W6GAA	Palos Verdes	O	100.0	Palisades Radio Club
445.300	-	K6RH	Palos Verdes	O	127.3	Rolling Hills Radio Club
445.720	-	N6RPV	Palos Verdes	O	192.8	Rancho Palos Verdes PVAN (+ DMR: CC1)
447.000	-	W6TRW	Palos Verdes	O	100.0	W6TRW ARC
447.120	-	K6PV	Palos Verdes	O	100.0	Palos Verdes ARC (+ DMR: CC1)
146.235	+	KA6TSA	Palos Verdes	P		
147.060	+	(NO ID)	Palos Verdes	P		
147.360	+	K6VGP	Palos Verdes	P		Disaster Amateur Radio Network (DARN)
147.420	-0.945	AA6RJ	Palos Verdes	P		Philippines America Radio Amateurs
445.280		K6VGP	Palos Verdes	P		Disaster Amateur Radio Network (DARN)
446.020		K6BFS	Palos Verdes	C		
446.700		WD6FZA	Palos Verdes	P		Pocket Autopatch Assn. (PAPA)
446.740		K6VGP	Palos Verdes	P		Disaster Amateur Radio Network (DARN)
449.980		W6MTA	Palos Verdes	P		

Signal Hill repeaters support City of Long Beach disaster ham radio efforts. Other radio systems there are for Long Beach municipal use. ■

Catalina Island						
Frequency	Rpt. Shift	Callsign	Location	O=Open	PL Tone	Owner
147.090	+	AA6DP	Catalina Island Airport	O	CS	Catalina Amateur Repeater Assn.
224.420	-	AA6DP	Catalina Island Airport	O	110.9	Catalina Amateur Repeater Assn.
446.140	-	AA6DP	Avalon--link to Airport	O	110.9	Catalina Amateur Repeater Assn.

Signal Hill						
Frequency	Rpt. Shift	Callsign	Location	O=Open	PL Tone	Owner
146.15	+	K6CHE	Signal Hill	O	156.7	Long Beach Repeater Associates
223.80	-	K6CHE	Signal Hill	O	156.7	Long Beach Repeater Associates
449.78	-	K6CHE	Signal Hill	O	131.8	Long Beach Repeater Associates

ARRL Urges Members to Join in Strongly Opposing FCC's Application Fees Proposal

From the ARRL website

10/27/2020

ARRL will file comments in firm opposition to an FCC proposal to impose a \$50 fee on amateur radio license and application fees. With the November 16 comment deadline fast approaching, ARRL urges members to add their voices to ARRL's by filing opposition comments of their own. The FCC *Notice of Proposed Rulemaking* (<https://tinyurl.com/yyk8f2yp>) MD Docket 20-270 appeared in the October 15 edition of *The Federal Register* and sets deadlines of November 16 to comment and November 30 to post reply comments, which are comments on comments already filed. ARRL has prepared a [Guide to Filing Comments with the FCC](http://www.arrl.org/FCC-Fees-Proposal) at <http://www.arrl.org/FCC-Fees-Proposal>

which includes tips for preparing comments and step-by-step filing instructions. File comments on MD Docket 20-270 using the FCC's Electronic Comment Filing System ([ECFS](https://www.fcc.gov/ecfs/filings)) at <https://www.fcc.gov/ecfs/filings>.

Under the proposal, amateur radio licensees would pay a \$50 fee for each amateur radio application for new licenses, license renewals, upgrades to existing licenses, and vanity call sign requests. The FCC also has proposed a \$50 fee to obtain a printed copy of a license. Excluded are applications for administrative updates, such as changes of address, and annual regulatory fees. Amateur Service licensees have been exempt from application fees for several years.

The FCC proposal is contained in a *Notice of Proposed Rulemaking* ([NPRM](#)) in MD Docket 20-270, which was adopted to implement portions of the "Repack Airwaves Yielding Better Access for Users of Modern Services Act" of 2018 — the so-called "[Ray Baum's Act](https://www.congress.gov/115/plaws/publ141/PLAW-115publ141.pdf)" <https://www.congress.gov/115/plaws/publ141/PLAW-115publ141.pdf>

The Act requires that the FCC switch from a Congressionally-mandated fee structure to a cost-based system of assessment. In its *NPRM*, the FCC proposed application fees for a broad range of services that use the FCC's Universal Licensing System (ULS), including the Amateur Radio Service. The 2018 statute excludes the Amateur Service from annual regulatory fees, but not from application fees. The FCC proposal affects all FCC services and does not single out amateur radio.

ARRL is encouraging members to file comments that stress amateur radio's contributions to the country and communities. ARRL's [Guide to Filing Comments](#) includes "talking points" that may be helpful in preparing comments. These stress amateur radio's role in volunteering communication support during disasters and emergencies, and inspiring students to pursue education and careers in engineering, radio technology, and communications.

As the FCC explained in its *NPRM*, Congress, through the Ray Baum's Act, is compelling regulatory agencies such as the FCC to recover from applicants the costs involved in filing and handling applications.

In its *NPRM* the FCC encouraged licensees to update their own information online without charge. Many, if not most, Amateur Service applications may be handled via the largely automated Universal License Service (ULS). The Ray Baum's Act does not exempt filing fees in the Amateur Radio Service, and the FCC stopped assessing fees for vanity call signs several years ago.

See also "[FCC Proposes to Reinstate Amateur Radio Service Fees](http://www.arrl.org/news/fcc-proposes-to-reinstate-amateur-radio-service-fees)," <http://www.arrl.org/news/fcc-proposes-to-reinstate-amateur-radio-service-fees> reported by ARRL in August, and a [summary page](http://www.arrl.org/FCC-Fees-Proposal) <http://www.arrl.org/FCC-Fees-Proposal> of the proceeding. ■

QRO Editor's Note: While mandating the FCC to recover its costs is understandable they need to remember amateur radio is the only licensed radio service that cannot receive any compensation for providing communication services or use for business/work purposes. Amateur radio is entirely a volunteer service and should be recognized as such.

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 a new member benefit: 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/ then click "Join/Renew." ■

Need a PVARC badge?

Gary Lopes, WA6MEM, has distributed all PVARC badges that were ordered before our transition to virtual meetings in April. If you wish to order a new or replacement badge please contact him at wa6mem@cox.net and he will make arrangements for your payment and sending your new badge. ■

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 COVID-19 period of virtual meetings if you would like a patch please contact Diana, AI6DF, at 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	Peter Landon, KE6JPM
Secretary	Ron Wagner, AC6RW
Directors	Clay Davis, AB9A Gary Lopes, WA6MEM
Past Vice President	Bob Sylvest, AB6SY

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; Dave Turner, KM6LGX

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Email us: k6pv@arrl.net

Website: www.k6pv.org

Mailing Address:

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

Monthly Meetings:

1st Thursday (except December in 2020) 7:30 pm via Webex 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

To order a Club jacket or patch:

Dave Scholler, KG6BPH, 310-373-8166

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Front page photo — Pt. Vicente Lighthouse at nightfall in November 2018 with the former Fresnel lens operating. This lens was replaced with an LED bulb in early 2019. PHOTO: DIANA FEINBERG, AI6DF

PVARC Club News

PVARC upcoming dates in 2020

- ◆ **PVARC monthly meetings online via Webex**
1st Thursday each month, 7:30-9:00 pm, except in December.
(in-person meetings at Hesse Park's McTaggart Hall will resume when permitted)
- ◆ **PVARC HF Enthusiasts Group meetings online via Webex**
2nd Saturday each month, 10:00 am to Noon
(in-person meetings at Palos Verdes Library main branch's Purcell Room will resume when permitted)
- ◆ **PVARC EmComm Interest Group online meetings via Webex**
3rd Saturday every month, 10:00-11:00 am
- ◆ **Walt Ordway, K1DFO, Technician and General amateur radio license classes at Hesse Park**
Will resume when in-person gatherings at Hesse Park allowed *(Nov. 7 & 14 classes have been canceled.)*
- ◆ **Public service events:**
Canceled: Palos Verdes Half Marathon-10K-5K, Nov. 21.
- ◆ **PVARC 2020 Holiday "After-Dinner":** Dec. 3 via Webex

Non-PVARC Events of Note:

- ◆ **W6TRW Swap Meet is canceled until January 2021**, Northrop Grumman Space Park, North Redondo Beach. ■

Upcoming amateur radio contests of note:

- ◆ ARRL CW Sweepstakes: 2100Z, Nov 7 to 0300Z, Nov 9
- ◆ Day of the YLs Contest: 0000Z, Nov 7 to 2359Z, Nov 8
- ◆ ARRL Sweepstakes Contest, SSB: 2100Z, Nov 21 to 0300Z, Nov 23
- ◆ CQ World-Wide DX Contest, CW: 0000Z, Nov 28 to 2400Z, Nov 29

WELCOME NEW MEMBERS OF THE PALOS VERDES AMATEUR RADIO CLUB IN 2019-2020

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

Erin Okada, KN6FYV

Derek Okada, K6DMO

Xing Yang, KN6FYX

Stephen Anderson, KN6FZA

Charles Tang, KN6FYY

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

PVARC Calendar

November 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	4 PVARC digital DMR weekly net on K6PV repeater 7:30-7:55 pm	5 PVARC Monthly Meeting 7:30-9:00 pm via Webex	6	7 <i>(PVARC ham license classes at Hesse Park canceled due to building closure)</i> ARRL CW Sweepstakes Contest
8 ARRL CW Sweepstakes Contest	9	10 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	11 PVARC digital DMR weekly net on K6PV repeater 7:30-7:55 pm	12	13	14 PVARC HF Enthusiasts Group, 10 am to Noon via Webex <i>(Ham license classes at Hesse Park canceled due to building closure)</i>
15	16	17 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	18 PVARC digital DMR weekly net on K6PV repeater 7:30-7:55 pm	19	20	21 PVARC EmComm Interest Group, 10:00-11:00 am via Webex ARRL SSB Sweepstakes Contest
22 ARRL SSB Sweepstakes Contest	23	24 PVARC analog weekly net on K6PV repeater 7:30-7:55 pm	25 PVARC digital DMR weekly net on K6PV repeater 7:30-7:55 pm	26 Thanksgiving Day	27	28 CQ WW DX Contest—CW
29 CQ WW DX Contest—CW	30					



Palos Verdes Amateur Radio Club
P.O. Box 2316
Palos Verdes Peninsula, CA 90274
http://k6pv.org

NEW MEMBER & 2021 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 (2021 only): No charge

Household and/or Family membership (2021 only): No charge

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 1st to December 31st year.

PayPal payment: Go to www.paypal.com, enter recipient name as: 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/n6rpvpage/pvarc/constitution.pdf or upon request.)

Signature: _____ Date: _____

Family Member Signature: _____ Date: _____

Family Member Signature: _____ Date: _____