



QRO

THE PALOS VERDES AMATEUR RADIO CLUB NEWSLETTER

MAY 2024

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“Summits On The Air”

Don Minkoff, NK6A

**Thursday, May 2, 2024, 7:30 pm, hybrid
meeting in-person at Hesse Park and
via Zoom**

- **PVARC Hesse Park room
opens at 6:45 pm**
- **Zoom online meeting room
opens by 7:10 pm**

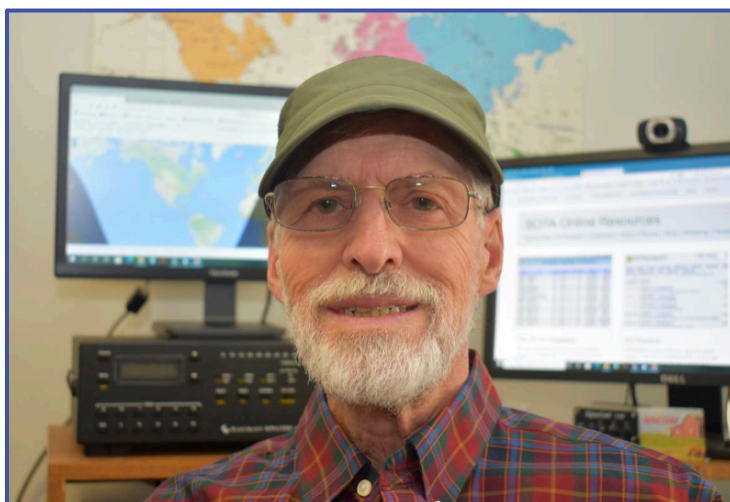
Also in May:

**Saturday, May 11, 10:00 am-Noon,
PVARC HF Enthusiasts Group meeting at
Palos Verdes Library main branch in the
Conference Room**

All **QRO** monthly issues since 2007 are
on the PVARC website at www.k6pv.org
under the “Newsletter” tab.

Upcoming PVARC meeting speakers...

PVARC's hybrid **May 2nd monthly meeting** at Hesse Park and via Zoom features "Summits on the Air" (SOTA) presented in-person by Don Minkoff, NK6A (*photo, right*). Don previously has spoken to us about SOTA as well as on operating amateur radio in Italy from the Marconi Museum. A screenshot below from SOTA's website provides a brief SOTA overview but Don has much more to say after the SOTA program expanded in recent years.



Don was first licensed in 1959 at age 12 and later became interested in DXing and low-power HF operating. He has operated from numerous peaks/mountains as well as from Portugal and Ireland in portable mode. He's a retired Quality Engineer and ISO 9000 auditor in the automotive electronics industry and lives in the Mar Vista section of West Los Angeles. .

Our **June 6th** monthly meeting features Patrick Bolan, KJ7ZSU, from Oregon City, OR, speaking about Geochron world clock maps. Patrick developed the digital version of Geochron and now owns the Geochron company which still makes mechanical Geochrons. His talk with us will mostly focus on the digital version which offers far more information for much less cost...and on much larger screens than the mechanical models.■

From Summits On The Air website, <https://www.sota.org.uk/>

New to SOTA?

SOTA has been carefully designed to make participation possible for all Radio Amateurs and Shortwave Listeners - this is not just for mountaineers! There are awards for activators (those who ascend to the summits) and chasers (who either operate from home, a local hilltop or are even Activators on other summits).

See the '[Joining In](#)' section of the website for lots of information, advice, rules, guidelines and our FAQs.



SOTA is fully operational in nearly a hundred countries across the world. Each country has its own Association which defines the recognised SOTA summits within that Association. Each summit earns the activators and chasers a score which is related to the height of the summit. Certificates are available for various scores, leading to the prestigious "Mountain Goat" and "Shack Sloth" trophies. An Honour Roll for Activators and Chasers is maintained at the SOTA online database.

The years in the life of an RF connector: How many mating cycles do yours have remaining?

By Diana Feinberg, AI6DF
QRO Editor

Unlike a local mattress store impresario whose television commercials advise “If your mattress label says eight, it’s time to replace” ham radio has no labels announcing when it’s time to replace your RF connectors.

A seldom-discussed aspect of ham radio, all RF connectors whether UHF, SMA, BNC, N, or others have a limited number of mating cycles between male and female connectors (i.e., insertion-removal-insertion, etc.) Hams such as myself who must frequently set-up/take-down their amateur radio equipment or operate portable will experience pin and socket plating wear-out sooner. In the photos below, my 50’ Times Microwave LMR-400 cable with PL-259 UHF connectors has been through at least 600 mating cycles since 2010—and showing it.

Higher-quality RF connectors, such as from Amphenol, promise a minimum of 500 mating cycles; lesser-quality connectors can have as few as just 75-80 depending on the plating used for pin and socket. Male SMA connectors such as on many HT radio antennas likely won’t last 500 cycles due to the thin conductor pin which doesn’t allow for thick plating.

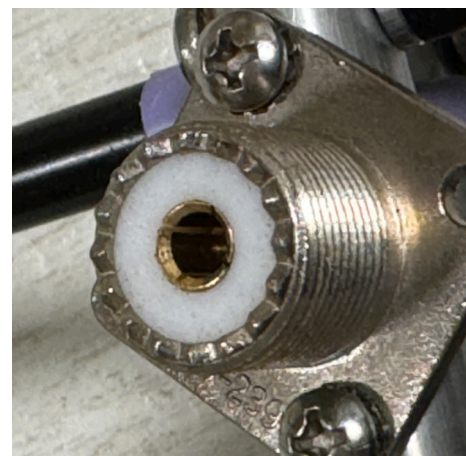
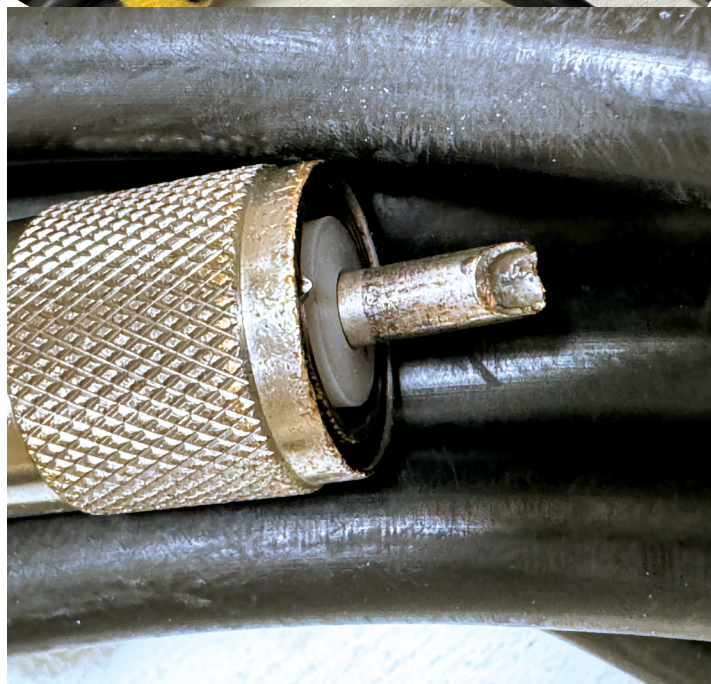
Gold plating, nickel plating, and tin plating are the most widely used—with corresponding price and performance differences. Unlike tin which oxidizes, gold plating does not react with atmospheric contaminants and requires less force for insertion/removals. The more insertions/removals and more force needed eventually thins the plating...and then it’s time to replace.

A final aspect: unlike the mattress store, there are no promises that if you find a lower price your new connectors or coax are free. ■

Left: PL-259 pin plating is worn after 14 years of in and out.

Right: SO-239 female UHF connector no longer firmly seats the PL-259 pin.

PHOTOS: DIANA FEINBERG, AI6DF



Rancho Palos Verdes Planning Commission approves new antenna codes—for now, no “new” ham antenna restrictions

The Rancho Palos Verdes Planning Commission at its April 23, 2024 meeting approved for City Council consideration two new municipal code chapters replacing the current single chapter governing any wireless transmission antennas. Ham radio antennas will now be covered in a separate chapter with provisions unchanged from the last antenna code revision in October 2020.

Shown below are types of amateur radio antennas **not** requiring city approval—there’s still a lot of creativity available for hams. But ham antennas involving towers up to 41’ above grade level do require approval from the City’s Director of Community Development after an application process. Any ham antenna exceeding 41’ needs to obtain Planning Commission approval and will incur additional costs. Existing permitted antennas and towers are grandfathered. *Continued next page ►*

3) Antennas Exempt. The following noncommercial amateur radio antenna assemblies may be constructed or installed on a lot without the approval of an antenna Site Plan Review application or noncommercial radio antenna permit;

- a) The replacement of an existing antenna or antenna support structure with an outside diameter of three inches or less with a similar antenna or support structure.
- b) Parabolic dish antennas which are one meter (39.37 inches) or less in diameter. This exemption shall not apply to parabolic dishes located on a mast which is greater than twelve feet in height. Freestanding masts shall be measured from existing adjacent grade. Masts located on a building shall be measured from the point where the mast meets the roof surface.
- c) Any combination of two different antenna assemblies from the following categories:
 - (i) One antenna assembly which is located outside of any required setback areas and which is sixteen feet or less in height, as measured pursuant to the residential building height measurement methods described in section 17.02.040 (View Preservation and Restoration) of this title.
 - (ii) One building mounted antenna assembly, located outside of any required setback areas, which does not exceed twelve feet in height, as measured from the point where the antenna assembly meets the roof surface, and which contains radiating elements, each of which does not exceed six feet in total length. If the antenna assembly is mounted onto the roof, or if any portion of the antenna assembly projects above the roofline, not more than one antenna may be affixed to antenna support structure.
 - (iii) One wire antenna assembly consisting of a single flexible wire, with a diameter not to exceed one-half inch, suspended between two supports, which if man-made do not exceed forty-one feet in height as measured from adjacent existing grade, and located outside of any required setback areas. Exhibit B-3
 - (iv) One vertical antenna assembly, located outside of any required setback areas, consisting of a single pole or mast with a maximum outside diameter of three inches or less with no guys or horizontal elements located higher than two feet above the ridgeline of the residence, and which does not exceed forty-one feet in total height, as measured from adjacent existing grade.

Rancho Palos Verdes Planning Commission approves new antenna codes—for now, no “new” ham antenna restrictions

► *From previous page*

The ham antenna October 2020 code revision had several new requirements amateur operators might find objectionable: 1) any permit application required notifying all property owners within a 500’ radius instead of just adjoining property owners; 2) any permit application required building a physical mock-up of the proposed antenna and structure at its location, or a photo simulation; and 3) if directed, paint the antenna structure to be more compatible with surrounding areas.

While the 500’ notification radius gives more residents an “opportunity” to react ham radio wasn’t singled out. The 500’ radius already applied to applications for all commercial antenna, all variances to the city’s General Plan, any encroachment on public property, and several other situations involving neighborhood compatibility.

At the April 23rd Planning Commission meeting our fellow member Dale Hanks, N6NNW, attended in-person and your **QRO** Editor watched via Zoom. We knew in advance no changes for ham antennas were being proposed—but just in case...■ — *Diana Feinberg, AI6DF*

More on DMR from PVARC’s April 4th meeting...useful links from great presentation by Kirk, KN6UMV

PAPA (Pocket Auto Patch Association)	https://papasys.com
LastHeard	https://brandmeister.network/?page=lh
Hoseline	https://hose.brandmeister.network/
Western States DMR	https://www.westernstatesdmr.com
Callwatch	http://dmr2.interworld.net:42420/CallWatch
Peerwatch	http://dmr2.interworld.net:42420/PeerWatchFrame
NorCal-DMR	http://norcal-dmr.org
SNARS (Sierra Nevada Amateur Radio Society)	https://snars.org
Callwatch	http://cbridge.snars.net:42420/CallWatch
Peerwatch	http://cbridge.snars.net:42420/PeerWatchFrame
PNW Digital	https://pnwdigital.net
Callwatch (PNW A)	http://pnw-a.pnwdigital.net:42420/CallWatch?filter=PNW
Callwatch (PNW D)	http://pnw-d.pnwdigital.net:42420/CallWatch?filter=PNW
Callwatch (PNW E)	http://pnw-e.pnwdigital.net:42420/CallWatch?filter=PNW
Peerwatch (PNW A)	http://pnw-a.pnwdigital.net:42420/PeerWatchFrame
Peerwatch (PNW D)	http://pnw-d.pnwdigital.net:42420/PeerWatchFrame
Peerwatch (PNW E)	http://pnw-e.pnwdigital.net:42420/PeerWatchFrame

PVARC begins planning for ARRL Field Day, June 22-23

For this year's ARRL Field Day the PVARC plans to again operate from Soleado Elementary School in Rancho Palos Verdes, subject to final School District permit approval.

We've enjoyed Soleado's quiet site since 2018 which, although somewhat "off the beaten path", offers an outstanding transmit location above the Los Angeles Basin. Previous PVARC Field Day sites have been at Palos Verdes Peninsula High School (mid-1990's through 2011) and Ridgecrest Intermediate School (2012-2017). Coincidentally, we had to move from Pen High and later Ridgecrest because major construction work in progress prevented access for Field Day.

The PVARC expects to again operate as a 2A station on emergency power. We always encourage newer hams to visit our Field Day site and try operating on the HF bands, including under a higher-licensed ham.

Don't wish to operate radios? We still up our stations in limited time. after 8:00 am Saturday—and we am. Many other clubs will start gear on the day before, which is When Field Day ends at 11:00 disassembling everything and site by 1:00 pm

This year's ARRL Field Day logo with a Civil Defense-inspired visitor traffic at Soleado which has



need help from PVARC members to set PVARC typically has site access just need to be "on the air" by 11:00 setting up their antennas and allowed by the Field Day rules. am Sunday we then need help completely vacating the school

uses the pun "Be Radio Active" design. We don't expect that to hurt very little to begin with.

Stay tuned for more Field Day details...this year should be another great one for the PVARC.■

We say again: Need to renew your license and pay the \$35 fee? ARRL's easy to follow article has the steps to do it

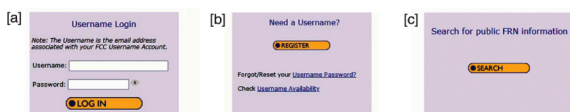
How to Renew Your License Online

The ARRL VEC provides instructions on how to file an amateur radio license renewal application and make a payment via the FCC's new COMmission Registration System (CORES).

Before you renew your license, you will need to create a new FCC CORES username account, and then link your FCC Registration Number (FRN) to your new account. As of April 2022, the FCC charges a \$35 fee to renew amateur radio licenses. You must create the new account to pay the fee. Follow the steps below to create a new CORES account, and then after you complete the license renewal application, the License Manager system will automatically direct you to the CORES system. Log in and pay the fee.

Setting Up Your New FCC CORES Username Account

1 If you haven't already created a CORES account, you must register a username (your email address) and a password (see [a] and [b]). Visit the FCC CORES web page at <https://apps.fcc.gov/core/userLogin.do> to set up your account. If you don't know your FRN, you may search for it on that web page (see [c]). You will need your FRN for the next step.



2 Log in to your new account and click the first option, ASSOCIATE USERNAME TO FRN.

Visit:

<https://www.arrl.org/files/file/QST/This%20Month%20in%20QST/2023/10%20october%202023/10%202023%20Somma%20renew%20license%20online.pdf>

Something visibly new as the PVARC again provided communication at Ridgecrest 5K...

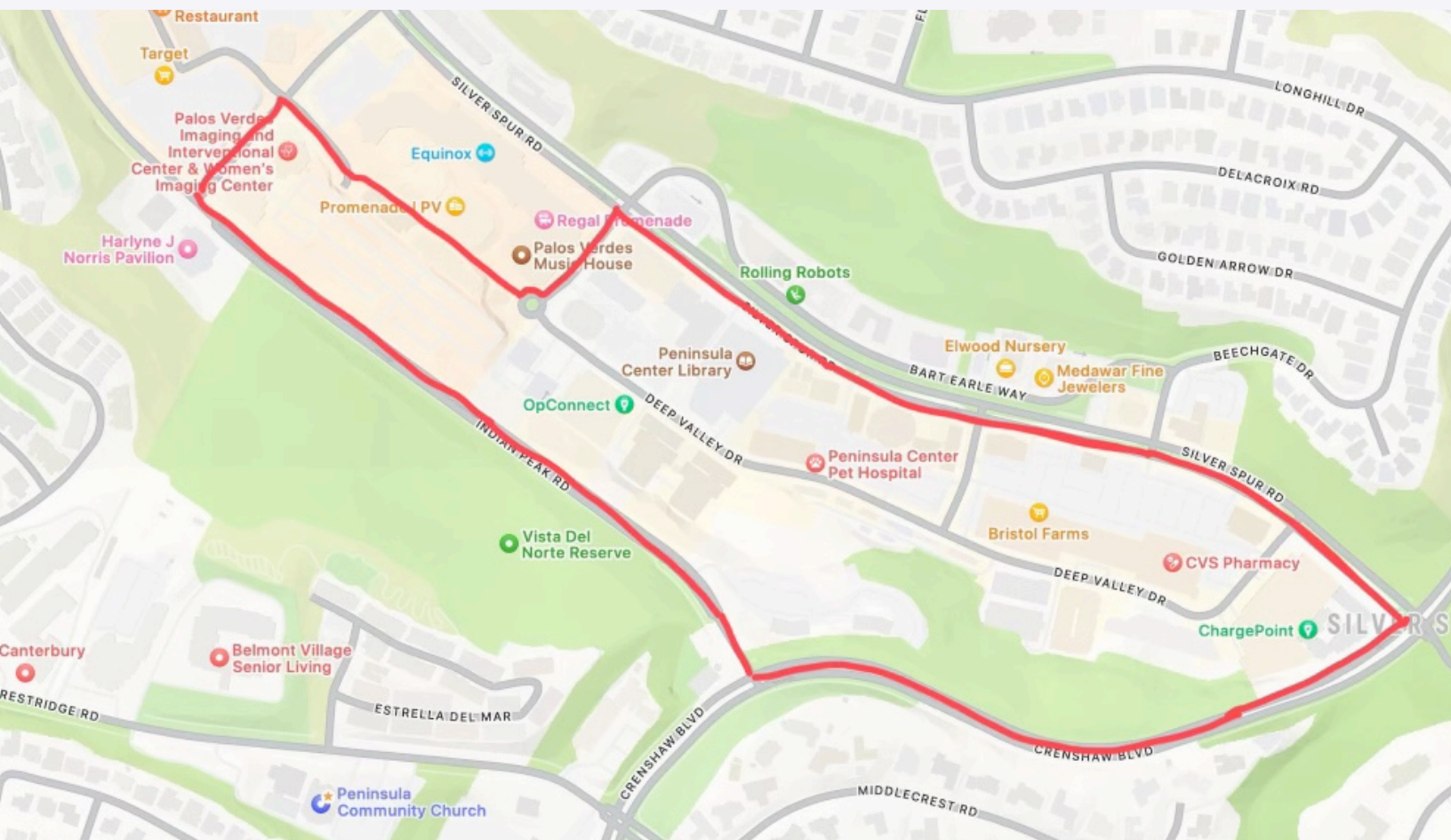
At this year's Ridgecrest Intermediate School 5K on April 28 the PVARC had a "new" presence while providing public service communication as usual under Walt Ordway, K1DFO, direction.



What's new? For the first time in our 49-year history the PVARC's club logo adorned every T-shirt given to an event's participants. Ridgecrest 5K 2024 T-shirts issued to runners and volunteers included our club patch design on the shirt back alongside race sponsor and supporter logos. Our Board of Directors was truly appreciative when race organizers asked if they could include our club's logo to recognize the PVARC's service.

This year's race had 641 participants, mostly children from schools in the Palos Verdes Peninsula Unified School District. The route (shown below from the race website) duplicated previous years, a two-loop circuit starting on Deep Valley and Norris Center Drives in the Peninsula shopping district and circling back via Indian Peak Road, Crenshaw Blvd., and Silver Spur Road before turning on Norris Center Drive..

The event went very well with no injuries or incidents reported. Using the K6PV repeater in FM analog mode our radio communications team consisted of Dave KE6GFR, Bob AC6RM, Matthew N6MDC, Mike KN6YSK, Sergio WA6WV, Steve KI6TEQ, Cynthia AG6NW, Steve KN6YDX, Herb KO6RC and Walt K1DFO. Thanks to all for serving. ■



PVARC 2024 membership (as of 4/27/2024)

Thanks to all who have renewed their PVARC membership for 2024 or holds a complimentary membership for this year. To ensure we better acknowledge all membership renewals—whether received by postal mail, PayPal, or in-person—we'll be listing renewals in **QRO** for the next several months. Let us know if you renewed (or recently joined) but do not see your call sign here.

Haven't renewed yet? Renew at either a PVARC in-person monthly meeting; by using the fillable form on our website with your PayPal payment; or print and mail the form with your check to our PO Box address. ■

AB6SY
AB9A
AC6RM
AC6RM-XYL
AC6RW
AF6VT
AI6DF
AJ6HZ
AK6CZ
K0MZ
K1DFO
K5LAX
K6BRN
K6DMO
K6JW
K6JW-XYL
K6LH
K6MU
K6NT
K6UU
K9BGC
KA6JMR
KA6JWR
KA6LJR
KA6MJR
KA6ZTO
KC6NNV

KE6PMN
KE6SGP
KF6MYQ
KF6VTN
KG6BNN
KG6BPH
KG6RH
KI6EAI
KI6GUY
KI6HQX
KI6RRD
KI6SUA
KI6TEQ
KI6YMD
KJ6CAU
KK6EWB
KK6KCH
KK6TXN
KM6ATI
KM6LGU
KM6LGX
KN6BBO
KN6FYW
KN6QHJ
KN6UMV
KN6YDX
KN6YSJ

KO6BVD
KO6CIA
KO6CIK
KO6MD
KO6S
N6AA
N6HE
N6KN
N6MDC
N6NNW
N6YFM
NA6Z
NG6R
NT6E
W6BMD
W6DLD
W6GEZ
W6HIP
W6HIP-XYL
W6KCV
W6KCV-XYL
W6MO
W6OQ
W6PBH
W6YBW
W6YBW-XYL
WA6LKV

WA6MEM
WA6NSR
WA6OWM
WA6OWM-XYL
WA6WV
WD6Y
WJ1P
WW6WW

PVARC 2024 upcoming events

- **PVARC hybrid monthly meetings online via Zoom and in-person as announced**

1st Thursday each month, 7:30-9:15 pm, except in August and December; July 2024 meeting held on 1st Wednesday, July 3,

- **PVARC HF Enthusiasts Group meetings in-person at Palos Verdes Library main branch**

2nd Saturdays, 10:00am-Noon

- **PVARC EmComm Interest Group online meetings via Zoom (*currently under review*)**

- **Walt Ordway K1DFO Technician and General amateur radio license classes at Hesse Park**

May 11 and 18, 2024; 9:30 am to 5:00 pm

- **Volunteer Examiner license test session at Hesse Park, May 25, 2024 (Fireside Room) 10:00 am**

- **PVARC 2024 Holiday Dinner or virtual "After-Dinner", December 12**

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. VE license testing in Building S-2 at 10:00 am.

- **Dayton HamVention: May 17-19.** Greene County Fairgrounds, Xenia, OH (Dayton suburb). Largest ham convention in the Western Hemisphere. Website: <https://hamvention.org/>

- **Hamcon, Zion: ARRL Rocky Mountain Div. Convention, July 12-13.** St. George, Utah., Website: <http://hamconzion.com/>

- **Bored Net Group MicroExpo / ARRL Santa Barbara Section Convention, August 31.** Cal State University Channel Islands, Camarillo. Free. <http://www.theborednet.net/index.php/ham-radio-expo-to-be-held-on-august-31-2024/>

- **PACIFICON, ARRL Pacific Division Convention: October 18-20, 2024.** San Ramon Marriott, San Ramon, CA; website: www.pacificon.org

Become an ARRL member: support amateur radio while increasing your learning

Consider joining the American Radio Relay League (ARRL) if not already 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, which requires that at least 51% of club members be ARRL members.

Annual ARRL membership costs \$59 and includes digital access to all four ARRL periodicals (**QST** magazine, **On The Air** magazine, **National Contest Journal**, and **QEX** magazine focusing on advanced technical topics.) Subscriptions to printed copies of ARRL publications are available at additional charge.

All ARRL members can access numerous web-based materials, ARRL staff, and assistance with ham radio issues. Visit: www.arrl.org/. ■

Need a PVARC badge?

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

Embroidered PVARC patches available

PVARC club patches are still available for \$4 each. They may be sewn onto any cap, jacket, shirt, or bag.

If you would like a patch contact Diana, AI6DF, ai6df@arrl.net and we'll find a way to get your patch to you. ■



About Us...

Welcome to the Palos Verdes Amateur Radio Club, K6PV.

Founded in 1975, today our 150+ members hail from every city in Los Angeles County's South Bay region...and beyond.

Our club fosters diverse ham radio interests including public service, DXing, contesting, digital modes, and electronic experimentation.

We also teach license classes several times annually and gladly assist newer hams in understanding amateur radio technology or procedures.

Many PVARC members serve in the government-affiliated disaster amateur radio groups for the South Bay's cities and Los Angeles County. We also provide public service communication at no charge to sponsors of community and running events.

No matter where you are along your ham radio journey you are welcome as a PVARC member. ■

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	Don Putnick, NA6Z
Secretary	Ron Wagner, AC6RW
Directors	Clay Davis, AB9A
	Gary Lopes, WA6MEM
Past Vice President	Bob Sylvest, AB6SY

Appointed Offices:

QRO Editor	Diana Feinberg, AI6DF
K6PV QSL Manager	Jeff Wolf, K6JW
K6PV Trustee	Mel Hughes, K6SY
LAACARC Delegate	Jeff Wolf, K6JW
VE Coordinator	Dave Scholler, KG6BPH
VE ARRL Liaison	Jerry Shaw, KI6RRD
Net Control Operators:	Laura Remington, KA6LJR;
	Ron Wagner, AC6RW; Dale Hanks, N6NNW; Bob
	Sylvest, AB6SY; Malin Dollinger, KO6MD; Dave Turner,
	KM6LGX; Jerry Shaw, KI6RRD; Gary Lopes, WA6MEM;
	Clay Davis, AB9A; Rick Heaston, KG6RH; Jeff
	Remington, KA6JMR; Marlee Remington, KA6MJR;
	Derek Okada, K6DMO

Contact us:

QRO Editor: 310-544-2917, ai6df@arrl.net
 Email: k6pv@arrl.net
 Website: www.k6pv.org
 Postal Address:
 Palos Verdes Amateur Radio Club
 PO Box 2316
 Palos Verdes Peninsula, CA 90274-8316

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

Club badges: Gary Lopes, WA6MEM, wa6mem@cox.net

Club jackets or patches: Dave Scholler, KG6BPH,
 310-373-8166

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Front page photo — Pt. Vicente Lighthouse starting its night shift on June 16, 2016. PHOTO: DIANA FEINBERG, AI6DF

PVARC CALENDAR OF EVENTS

MAY 2024

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 K6PV DMR net, 7:30 pm	2 PVARC hybrid monthly meeting at Hesse Park and via Zoom, 7:30 pm:	3	4
5	6	7 K6PV analog net, 7:30 pm	8 K6PV DMR net, 7:30 pm	9	10	11 HFE Enthusiasts Group meeting, PV Library, 10 am
12 Mother's Day	13	14 K6PV analog net, 7:30 pm	15 K6PV DMR net, 7:30 pm	16	17 Dayton Hamvention	18 Dayton Hamvention
19 Dayton Hamvention	20	21 K6PV analog net, 7:30 pm	22 K6PV DMR net, 7:30 pm	23	24	25 W6TRW Swap Meet, Northrop Grumman, N. Redondo Bch. 7:00-11:30 am
26	27 Memorial Day	28 K6PV analog net, 7:30 pm	29 K6PV DMR net, 7:30 pm	30	31	



Palos Verdes Amateur Radio Club

P.O. Box 2316

Palos Verdes Peninsula, CA 90274

<http://www.k6pv.org>

Fillable PDF form is downloadable from PVARC website at: http://www.n6rpv.net/n6rpvpage/pvarc/membership_form.pdf

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? ☐

Last First Call Class ARRL? ☐

Last First Call Class ARRL? ☐

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

(Optional) donation to support PVARC activities \$

TOTAL \$

Paypal to recipient
PVARC90274@gmail.com
Go to www.paypal.com

Cash ☐

Check made payable to
Palos Verdes Amateur Radio
Club

Check #

Please email completed form to PVARC90274@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

FCC **“Technician”** course (entry level)

FCC **“General”** course (2nd level)

Each course is 2 sessions

The sessions will be on 11 and 18 May 2024

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 25 May 2024

At the start of the 11 May 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 waltfordway@juno.com

I charge **no fee** for either course. Taking the FCC test is \$15. After passing the Technician test the FCC will send you an e-mail for paying its \$35 license fee and then they will post your call sign.

Optional Material (sold at cost)

Gordon West books with all the FCC test questions,

\$30 for the Technician and \$33 for the General

Paper copy of Walt's Power Point charts,

\$29 for the Technician and \$26 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 \$85 to cover the costs of materials, examination fee, and FCC license 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.

For Sale by PVARC Member:

ICOM IC-7300 (SN 02005611)

The ICOM IC-7300 is an all mode transceiver that incorporates coverage for all HF bands as well as 6 meters.

The radio is in mint cosmetic condition and has only been used in the shack. The firmware was updated on 7/17/2021 to v.1.41. Any available additional update(s) may be done by the owner. Full instructions for doing this are in the owner's manual. I have reset the radio to its factory defaults.

Included with the radio are a power cable, microphone, the original operator's manual, a factory CD with the manual, and the original carton.

On 5/1/2021 I replaced the internal, soldered-in clock battery with a replacement battery that fits into a holder I installed so that any future replacements will no longer require soldering. The only function of the battery is to run a clock on the display.

Asking price: \$800, cash only, firm, no trades. (The asking price is \$200 less than the current retail advertised price, including the current manufacturer's rebate.)

Contact Jeff, K6JW at k6jw@arri.net to view the radio or for further information.

