

Kerckhoff Marine Lab Newsletter



KML Construction



We are under construction here at KML! For the last few months, contractors have been hard at work repairing the exterior of the lab. With the seaside location and the building approaching 100 years, the exterior of the facility has seen some noticeable wear. A full exterior renovation of the facility is underway, which will repair all deteriorated concrete, updated railing, roofing, and painting the building. If you find yourself in Corona del Mar this summer, be sure to come check out the new updates!





Seawater Filtration



Research Highlight



We have been working this spring to outfit an uncrewed surface vehicle (USV) with equipment for imaging and mapping the seagrass beds by KML in China Cove. This project, funded in part by a grant from Caltech's Center for Autonomous Systems and Technologies, brings together the expertise of biogeochemists and engineers to study our local marine ecosystem. Newport Beach has long been monitoring seagrass in the Bay using diver and sonar surveys. With our USV, we hope to be able to survey more frequently and to provide more detailed assessments of both health and extent of this critical habitat.



Organism Spotlight

Warty Sea Cucumber (Apostichopus parvimensis)

This marine invertebrate is often seen crawling along intertidal and subtidal reefs ranging from Baja California, Mexico up to Monterey Bay, CA. While they appear to resemble slugs, they are members of the echinoderm phylum which also include seastars and sea urchins. Their mouths are surrounded by ten retractable tentacles that are used to bring food in as you can see in the photo below of the cucumber at KML. They feed on detritus (small particles of organic matter) and small organisms living in sediments.

One unique adaptation sea cucumbers have developed is when threatened, they can expel their guts in order to defend themselves and then re-grow their organs afterward.



Above: Warty sea cucumber in the wild

Below: Warty sea cucumber searching for food in aquarium at KML.

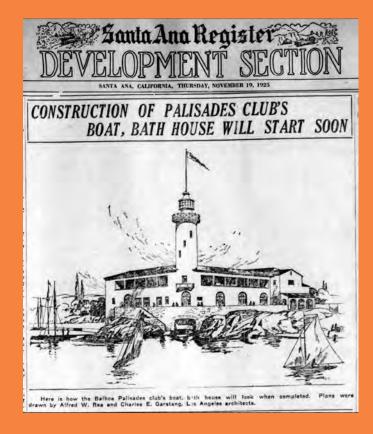


KML History

Balboa Palisades Club (1926-1930)

Prior to the establishment of Kerckhoff Marine Laboratory, this historic facility was originally built as the Balboa Palisades Club in 1926. The club was designed to be one of the premier boat clubs in California. Most of its members resided in the warmer inland towns of LA County, including many from Pasadena, and used the facility to escape the heat during hot summers.

However, due to ongoing litigation and the onset of the Great Depression in 1929, the club began to run into financial difficulties. This timing proved fruitful for Thomas Hunt Morgan, who joined Caltech and founded the Division of Biology in 1928. Morgan spent time in Newport Bay collecting and studying marine organisms, and he advocated for a Caltech marine station. His friends Arthur Amos Noyes and Ernest Swift (both Caltech chemists) were members of the Balboa Palisades Club. Together, Morgan and Noyes were instrumental in spearheading the purchase of the club and the establishment of the Kerckhoff Marine Lab in 1930.



Above: Article from the Santa Ana Register announcing construction of the Balboa Palisades Club (1925).

Below: Photo of China Cove and early days of KML from the Orange County Archives (early 1930s).



Stay Tuned for Summer Events!



For More Info





Visit our website at: https://kml.caltech.edu

Follow us on Instagram!

@kerckhoff marine lab

Join Our Mailing List!

Email kml-info@caltech.edu to join. For inquiries about how to access or support KML please contact: Stephen Ranson (sranson@caltech.edu) or call us at 949-675-2159.

Donate to KML

If you would like to donate to KML scan the QR code below:

