



The California Science Center is pleased to provide special insights to our generous supporters, Members and donors. Here's what's in this issue of *The Nucleus*:

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Science Center family, we hope that you and your loved ones are safe, healthy and continuing to learn. During these incredibly difficult times, your vital support enables the California Science Center to continue our mission to inspire science learning in everyone. As we adapt to challenges and find new ways to serve the community with educational programming and exhibits, we reaffirm our commitment to the Science Center's core values of accessibility and inclusiveness that are at the heart of everything we do.

THANK YOU!

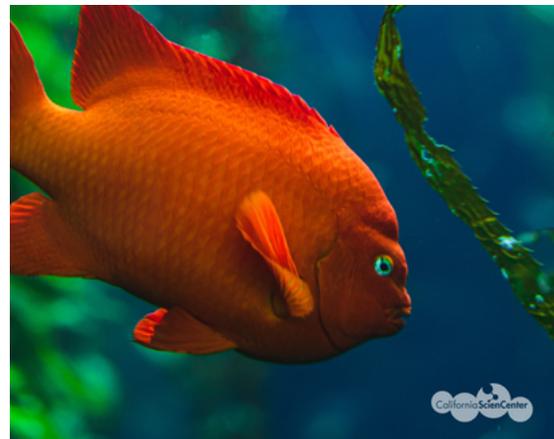
ECOEXPLORATIONS – LET'S DIVE IN



[EcoExplorations](#), one of the dynamic features of our [Science Beyond the Center](#) online portal, is revealing behind-the-scenes interactions with our animals, the people who take care of them and the systems that help us keep them healthy. Take a deep dive with Aquarist Crystal Gentle in the Marine Senses series to investigate how marine animals perceive their environment. In [Smell!](#) Crystal explains how lobsters, fish and other ocean animals use their sense of smell to help them detect prey in their watery world. Do sea anemones have taste buds? Do crabs have teeth? Do ocean animals have tongues? Find answers to these delectable questions in [Taste!](#) Virtually experience a sea urchin's hug in [Touch!](#), which reveals how sea stars, urchins and anemones feel things and respond to touch in their ocean environment. Peek in to learn why octopuses have special horizontal pupils in [Sight!](#) Tune into [Hearing!](#) to learn how animals sense vibrations traveling through water and to hear the “roar” of California's state marine fish, the relatively small, bright orange and spirited garibaldi.

“We may be closed but that doesn't mean that we've stopped caring. Our staff is providing the best quality of care to the animals at the California Science Center, 24/7. We invite our Members to visit us [online](#) to get an up close view of the animals and learn from an Aquarist about some of their hidden behaviors and adaptations.” – Aquarist Crystal Gentle

Like people, marine animals have five senses. Did you know that sharks have a sixth sense called electroreception that allows them to locate their prey, detecting the movement, even heartbeats of animals? Check out [Sharks!](#) for a recap of the five senses and to see a shark's special sixth electroreception sensory pores in action. Sharks are also highlighted by Aquarist Albert Chang in [Shark and Ray Day](#) with the goal of bringing awareness to the plight of sharks and rays around the world. Sharks and rays face many human-caused threats, such as climate change, habitat loss, overfishing and bycatch. In addition to these



The garibaldi is just one of many animals and plants native to the Southern California coast you can see in the California Science Center's 188,000-gallon Kelp Forest tank. Select the image to see

threats, sharks and rays have a very bad reputation, often misunderstood as vicious or dangerous. Albert looks at three species we have at the California Science Center that defy those negative stigmas – horn sharks, round rays and leopard sharks.

this and other California Science Center virtual backgrounds available to download.

“We are excited to kick off our new Deep Dive series, where we hope to bring you closer to our animals as we explore what makes them unique and amazing, and how we as animal care professionals provide an environment for them to thrive.” – Aquarist Albert Chang

Stay tuned for our next feature about terrestrial [EcoExplorations](#) to learn about our land-loving animals and keepers.



SCIENCE BEYOND THE CENTER



Missing your visits to the California Science Center? [Science Beyond the Center](#) gives you behind-the-scenes access to Science Center exhibits in ways you've never seen before.

This week, [Ever Wonder](#) how your favorite exhibit got made? Our latest podcast episode features Kathy Marsailles, Senior Exhibit Designer for the California Science Center. Kathy shares insights into the exhibit design process along with some of her experiences helping to create some of the Science Center's most popular exhibits.

You can also take tours through [Space Shuttle Endeavour](#) and hear exclusive interviews with astronauts. Explore amazing images and insights from our curators and experience revealing behind-the-scenes interactions with our animals, the people who take care of them and the systems that help us keep them healthy. And check out some videos from our traveling exhibitions. New content will be added regularly.

Bookmark the [Science Beyond the Center](#) page and check back often to see what's new!

SPECIAL EXPLORASTORE DISCOUNT FOR OUR GENEROUS SUPPORTERS



Treat yourself like an astronaut with tasty freeze-dried ice cream! Members and other generous supporters receive 10% off all web orders until the end of August, as well as free shipping on all orders \$50 and over. Use promo code: **MemberSummer10** at checkout.

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PARTNERS IN LEARNING ANNUAL GIVING PROGRAM



Looking for a deeper connection with the California Science Center? Please consider joining the Partners in Learning annual giving program to help sustain the hands-on exhibits, programs and operations that make the California Science Center a world-class educational resource and treasured family destination.

With our doors temporarily closed to the public, the support of our Partners in Learning donors is vital to helping the California Science Center continue our mission to stimulate curiosity and inspire science learning in everyone. We welcome your involvement!

[Become a Partner in Learning](#)

VIRTUAL BACKGROUNDS



Download and use these free virtual backgrounds featuring some of our favorite scenes from the California Science Center during your video conference meetings.

The Mercury-Redstone 2 space capsule (foreground) shines luminously while on glorious display with the Gemini 11 space capsule at the California Science Center.

[Download](#)

RENEW YOUR MEMBERSHIP AND SUPPORT SCIENCE LEARNING FOR EVERYONE



During these challenging and uncertain times, your support as a Member is critical to our ability to continue serving our community with free online science learning opportunities.

Please renew your Membership today in support of our mission to inspire science learning in everyone.



If your Membership is not due for renewal and you are in a position to make an additional gift, of any amount, we invite your contribution.

Your generous support will help sustain the California Science Center as a trusted educational resource while we are temporarily closed to the public. Thank you!



23,000 thermal tiles protected Space Shuttle Endeavour from overheating as it reentered Earth's atmosphere to bring astronauts safely home. **Sponsor one of these tiles today and you can preserve Endeavour's future by helping us build its permanent home – the Samuel Oschin Air and Space Center.**



For more information on the California Science Center, visit our website at www.californiasciencecenter.org or call (323) SCIENCE (724-3623). For Membership questions, please contact the Membership Office at member@californiasciencecenter.org or call (213) 744-7504.

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700 Exposition Park Drive, Los Angeles, CA 90037

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