

PACIFIC CURRENTS

MEMBER MAGAZINE OF THE AQUARIUM OF THE PACIFIC



Sea Otters

Introducing Our Brand New Exhibit!





THE SEARCH FOR STRATEGIES TO LIVE SUSTAINABLY ON EARTH

Human activities have set Earth onto a trajectory that will lead to a very different Earth by 2050 and certainly by 2100. It may be an Earth that will be inhospitable to support life as we know it, including human life, but there are things we can do to improve the odds.

THE TWO HUMAN ACTIVITIES that pose the biggest challenges to ensuring the future habitability of our planet for humans are the kinds and amounts of energy we use and the ways we grow and harvest the food we eat.

In its search for sustainable solutions, this past February the Aquarium of the Pacific hosted a discussion by a panel of experts, including designer and climate change communicator Tom Bowman, writer and environmentalist Stewart Brand, ocean explorer and scientist Sylvia Earle, and Hollywood producer and director Jerry Zucker. The panel considered bold, new ways to communicate about environmental challenges, including scenarios to explore alternative pathways to the future and using the arts and storytelling that make cognitive and emotional connections to change attitudes and behaviors. Panelists agreed that there are things that each person can do to be better environmental stewards such as using less energy and water, protecting healthy natural ecosystems, educating ourselves about environmental issues, and voting for people who share our values. They also acknowledged that there are things only governments can do and expressed the hope

that the U.S. will take a leadership role in the quest for green energy and for strategies to grow more food on less land with a smaller environmental footprint.

The Aquarium of the Pacific is committed to nurturing a sense of stewardship and fostering the realization that decisions we make today will determine the future we create for ourselves and for future generations. The

To have any chance of creating a sustainable future, we must have civil, unfettered conversations about controversial and contentious topics in our search for solutions.

Aquarium brings people of diverse backgrounds and experiences together through its Aquatic Forum and Aquatic Academy to explore complex and often controversial issues. Covering everything from threats to our water supply, to watershed issues, to offshore aquaculture, to ocean desalination, to geoengineering (climate intervention), to nuclear energy, the Aquarium brings together scientists, educators, businesses leaders,

environmentalists, governmental policy and decision-makers, and stakeholders in a safe environment to explore and evaluate alternative strategies for managing these problems. To have any chance of creating a sustainable future, we must have civil, unfettered conversations about controversial and contentious topics in our search for solutions.

A recent example of the Aquarium of the Pacific's involvement in national issues is the workshop it chaired in December 2009 at the request of the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Geological Survey (USGS). The goal of the workshop was to develop a framework to increase the resiliency of coastal communities in response to sea level rise and coastal flooding. Scientists from federal, state, and local levels, city planners, coastal managers, journalists, and others explored how coastal communities will need to prepare for and adapt to the rise in sea level and the steps federal, state, and local governments should take now to prepare. Over the balance of 2010 the framework will be tested in communities across the country and refined. The Aquarium will have a leadership role in California.

Reports of the Aquarium's Aquatic Forum can be found on our website.

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PACIFIC CURRENTS is published for members of the Aquarium of the Pacific. If you have comments about this magazine, please send an email to our editorial staff at PacificCurrents@LBAOP.org.

OUR MISSION | To instill a sense of wonder, respect, and stewardship for the Pacific Ocean, its inhabitants, and ecosystems.

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The Aquarium of the Pacific is a non-profit 501(c)3 institution. To provide exciting and innovative exhibits and educational programs, we rely heavily on the generous donations of individuals, foundations, and corporations.



Aquarium Founding Sponsor

LETTER FROM THE CEO

DEAR MEMBERS,

THE AQUARIUM is ready for an exciting summer, and we are looking forward to sharing two new exhibits with you. The newly enhanced BP Sea Otter Habitat will transport visitors to the Central Coast of California and immerse them in the natural home of these captivating animals. This will



be the Aquarium's most immersive exhibit and will serve as a model for further enhancements of other exhibits. Perhaps the most exciting change is the addition of Maggie, our new sea otter. Maggie was found stranded off the coast of Cayucos, California and was raised by the Aquarium's husbandry staff. You will have a chance to read more about Maggie and our new exhibit for our sea otters in this issue.

The completely redesigned exhibit will portray essential features of the Central California coast and the habitat of the southern sea otter.

Our new Molina Animal Care Center also opens this month and gives visitors an inside look at how we care for our animals. The 14,000-square-foot facility will allow visitors to observe surgeries and animal examinations, to see animals behind-the-scenes, and occasionally to interact with the Aquarium's veterinary staff while they are carrying out their duties.

The Molina Animal Care Center includes a veterinary hospital, a holding area for animals, and a public exhibit. This new facility also has updated technology to help our veterinary staff give the best care possible to our animal collection.

I hope you will attend one of the special opening events for these two new exhibits that are just for members. There will be a family member preview from 6:30 p.m.-9:30 p.m. on Sunday, May 16 and an adult member preview from 6:30 p.m.-9:30 p.m. on Monday, May 17. The preview for Pacific Circle members will take place from 7:00 p.m.-10:00 p.m. on Wednesday, May 19. Call (562) 437-FISH (3474) to make reservations.

I'd like to extend a special thank you to the Molina family, Molina Healthcare, and to BP. Their generous support has made our two new exhibits possible. Thank you for your continued support and for being part of the Aquarium family.

Sincerely,

Jerry R. Schubel

YOUNG AND PLAYFUL,
*sea otter Maggie has settled
into her new home.*



BRIAN GRAY

A SPECIAL DELIVERY

**AQUARIUM OF THE PACIFIC WELCOMES MAGGIE,
OUR NEWEST AND YOUNGEST SEA OTTER.**

YOUNG MAGGIE THE SEA OTTER was found separated from her mother near Cayucos, California when she was 10-12 weeks old. Wildlife officials determined that she could not take care of herself in the wild.

She had developed some life skills during the time she was with her mother, but not enough to sustain her in her natural habitat. She was also too advanced to be matched with a surrogate mother, so the Aquarium of the Pacific was asked to give the young otter a home.

When she arrived at the Aquarium in October 2008, caring for Maggie was an around-the-clock job. She weighed only six pounds. Because she was so small, Maggie was bottle and hand fed. She ate every 3-4 hours and had to be hand groomed after each feeding. The Aquarium's husbandry staff brushed her with a dog brush until she learned how to take care of her own coat.

Now 37 pounds, Maggie is a chocolate-brown color and does not have any of the yellow or silver fur that you might see on our adult otters. Maggie is faster and more active than the other otters because of her youth. She is very observant and her caregivers say she is very curious as the whole world is new to her.

Maggie's favorite food is shrimp, and she also likes other shellfish. She also eats clams and squid and is given mussels and crab

as treats, but she has not quite mastered cracking open the shells. Maggie likes to play with PVC pipes, where she can stick her paws into the holes, and she loves to eat and roll in ice.

It took some time for Maggie to join our other otters in the exhibit because she was behind the scenes growing and maturing. She came to the Aquarium very young, and she had a lot to learn

about being a sea otter and becoming independent. She also had to learn behaviors from trainers, such as how to recognize her name and how to sit in front of a trainer. Maggie also needed to get used to being touched and examined. Maggie now takes direction from her trainers and will receive her vitamins through a feeding

syringe. It also took time and patience introducing her to our other otters, especially our adult male Charlie. As a youngster, Maggie is spunky and playful. She will swim up to other otters, playfully bite them, and swim away. She is constantly in motion and "just goes nonstop," says Rob Mortensen, assistant curator.

Be sure to look for our newest resident Maggie at our new BP Sea Otter Habitat.

Maggie is faster than the other otters and more active. She is very curious, and the whole world is new to her.

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HUGH RYONO

SEA LION CAM

SEE THE UNDERWATER WORLD THROUGH THE EYES OF A SEA LION.



HAVE YOU EVER WONDERED what it is like to glide through the water like a sea lion? **Hugh Ryono, a volunteer who works with the Aquarium's**

seals and sea lions, did. His curiosity led him to create an underwater camera rig that can be held by a sea lion. A former flight test photo specialist, Ryono used his expertise to get a look into a sea lion's underwater world.

First, he needed a camera rig. Senior Mammalogist Carolyn Munoz suggested using a large ring that would be easy for a sea lion to carry through the exhibit. Because of his bold personality, Milo was the first sea lion trained to carry the ring. Made from a garden hose, the ring was used as a toy at first and Milo just played with it. Once Milo was used to the ring, a camera was attached in an underwater casing. It pivots so it can move with Milo. Carrying or wearing the ring is always a voluntary behavior, so Milo can just drop the camera if he likes.

Milo turned out to be an enthusiastic photographer, and the results of the first test were surprising. In one of the scenes you can see a vortex created by Milo's body as he re-entered the water. Ryono said he was also surprised by how much the sea lions can see above the water/air interface. "I always wondered if they could see me when they're down there, and now I know that they can."

The camera lets people see what the animals do when they are underwater, and Milo always seems to do something new. It allows us to see the seal and sea lion exhibit from the animal's point of view and experience the aerodynamics of the animals' movement.

Our sea lion Harpo is playing with a toy ring now, so he will be using the camera next. Ryono is already planning to work up to a high-definition camera that would allow for slow motion. Be sure to check out the footage at <http://www.aquariumofpacific.org/blogs/C592/>.

SEA DRAGONS

IN THE TROPICAL PACIFIC GALLERY, LOOK FOR OUR NEW LEAFY AND WEEDY SEA DRAGONS.



LEAFY SEA DRAGONS (*Phycodurus eques*) and weedy sea dragons (*Phyllopteryx taeniolatus*) are found only in the coastal waters of southern and western Australia, where they are a protected species. Both are bony fish in the family Syngnathidae, and they are related to seahorses, pipefish, and sea moths.

Leafy and weedy sea dragons have an almost surreal appearance characterized by unusual appendages that allow them to camouflage themselves in seaweed. Sea dragons drift with the current and eat tiny plankton and small shrimp-like animals. Sea dragons in the wild are threatened by habitat loss and pollution of coastal waters.

We will add three leafy sea dragons and 11 weedy sea dragons to exhibits in the Tropical Pacific Gallery. The new arrivals were born in October 2009 and were behind the scenes growing until they were large enough to join their fellow sea dragons.

Visit the Tropical Pacific Gallery, and be sure to check out the new additions to our leafy sea dragon and weedy sea dragon exhibits.



PACIFIC SPINY LUMPSUCKER

ANDREW RETSMA

WITH A ROUND, FLABBY SHAPE, the Pacific spiny lumpsucker (*Eumicrotremus orbis*) is an

inefficient swimmer. Lumpsuckers have a large, suction disc on their undersides, so they are often found inshore, attached to rocks at low tide.

Residents of the cold waters of the Northern Pacific, they are found off the coast of Washington, throughout the Aleutian Islands, off Asia and northern Japan, and the Bering Sea. Lumpsuckers can grow to five inches, but most are about an inch long. They feed mostly on worms.

Stop by the Coastal Corner Discovery Lab and see the Pacific spiny lumpsuckers in their new home.



Discover the Busy World of *Sea Otters*

Playful and inquisitive sea otters are the smallest of the marine mammals, but they have a big impact on their kelp forest ecosystem.

THE SOUTHERN SEA OTTER (*Enhydra lutris nereis*) is found along the California coast from Half Moon Bay to Coal Oil Point near Santa Barbara. The animals live in the kelp forest in water as cold as 35° to 60° F (2° to 16° C). As mammals, sea otters nurse their young and are warm-blooded. They hunt, mate, groom, give birth, play, rest, and sleep almost entirely at sea, where the animals lounge at the water's surface and on kelp beds.

The Alaskan and Asian sea otters are two other subspecies. The Alaskan sea otter is found along Alaska's Aleutian Islands to Prince William Sound and Southeast Alaska and off the coasts of British Columbia and Washington. The Asian sea otter is found in the Commander and Kuril Islands in Russia and along the eastern coast of the Kamchatka Peninsula. Members of the Mustelidae family, sea otters are related to river otters, skunks, and weasels.



JOE TOMOLSON

Big Eaters

Sea otters, the smallest of the marine mammals, are the only ones that do not have blubber to keep them warm in the cold ocean water. In order to stay warm, sea otters have to eat a lot. Dr. Tim Tinker, a research wildlife biologist with the Western Ecological Research Center of the U.S. Geological Survey and an adjunct professor in the department of ecology and evolutionary biology at the University of California Santa Cruz, says a sea otter is essentially a “swimming furnace.” The animals eat 25 to 30 percent of their body weights each day and convert food into energy to fuel their high metabolisms. An adult male sea otter can eat as much as 15 pounds of food in one day. Abalone, squid, sea urchins, clams, snails, and many other invertebrates are part of their diet.

Sea otters are a keystone species, meaning that the presence or absence of sea otters has an inordinately large effect on the health and balance of its ecosystem. When otters are plentiful, sea urchins, a favorite food item, are kept in check. When sea otters are scarce, sea urchins can consume too much giant kelp and other algae, reducing the kelp canopy and the species of fish and shellfish living in it. Sea otter populations help increase the abundance of kelp.

Sea otters are a valued sentinel species because they are highly visible and easy to study. Researchers can tag the animals, making them easy to follow and collect detailed information on their activities. For example, by collecting information about the sea otter’s eating habits and their health, Tinker and colleagues are learning which types of shellfish carry pollutants or parasites that cause health problems for otters. By identifying those behaviors, diets, or feeding locations that are associated with health problems, the scientists pinpoint risk factors and work upstream to correct those problems.

Sea otters spend a large part of the day hunting for food. They forage on the ocean floor, generally in waters less than 60 feet deep (although they occasionally dive as deep as 300 feet), and dive for one to three minutes at a time. Sea otters have sensitive whiskers that can help them find food in dark or murky water. Sea otters always eat at the surface, carrying their food in folds of skin under their front arms called pockets. Extremely resourceful, they will use rocks and shells as tools to help them break open the shells of their catch. At the surface, a sea otter will lie on its back, take out one piece of food at a time, open it by banging it against a rock, and use its chest as a dinner table.

When food is abundant, most sea otters eat energy-rich prey such as abalone and red urchins. When food is scarce, individual sea otters will adapt to the shortage by specializing on certain kinds of prey. One otter may eat mostly clams and worms; another may prefer crabs and sea stars; yet another may feed on mussels and marine snails. Scientists have observed multiple and very different diets among otters living in the same habitat. Specializing on one type of prey makes an

otter a more efficient predator. Sea otters learn to hunt from their mothers, so different individuals will have different hunting skills and different favorite foods. These diverse food preferences might explain why so many sea otters can share a particular habitat.

Good Groomers

When sea otters are not searching for food or eating, they are grooming. Sea otters have very dense fur to keep them warm and keep their body temperatures at 100° F (38°C) in the cold ocean water. Sea otters have the densest fur of any animal on the planet. In just one square inch, a sea otter has 800,000 to one million hairs, enough to cover an entire adult German shepherd. This lush coat makes grooming a vital and an almost constant activity. The animals are very limber and their skeletons are loosely

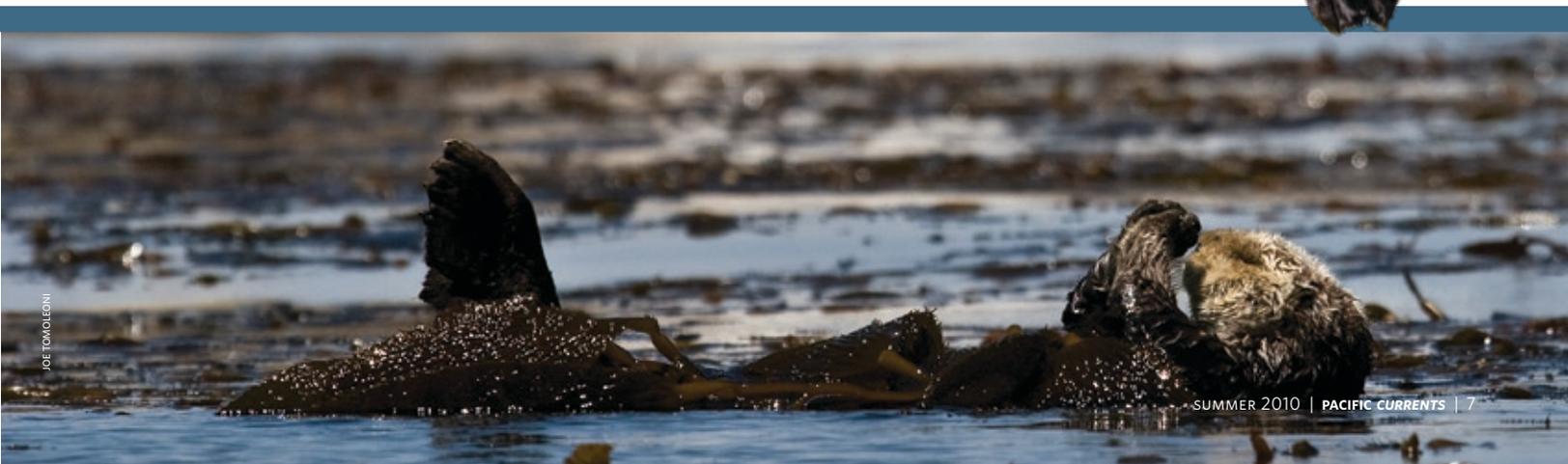
jointed, meaning they can easily reach and groom every single part of their bodies.

In addition to their thick fur, sea otters rely on an insulating

layer of air to stay warm. You have probably seen the Aquarium’s sea otters roll at the surface of the water. They are busy trapping a layer of air inside their fur. This air layer keeps the water from touching the otter’s skin. Sea otters spend four to six hours a day maintaining the protective layer of air and keeping the coat spotless. It is vital that an otter keep its fur clean so that the undercoat stays dry. If the undercoat gets wet, it might cause fatal hypothermia.

The sea otter’s lush coat once put its pelts in high demand. The sea otter’s natural curiosity made the animals easy to hunt and kill, and widespread hunting almost led to their extinction. It is estimated

There are about 2,800 sea otters living off the coast of California. Scientists consider the population stable, but in a depleted state.



that thousands of southern sea otters once existed off the California coast. In the 19th century, hunting left as few as 50 otters off the California coast. Now protected, sea otters are making a slow comeback. Federal protection has brought their numbers back up to 2,800, but their gradual recovery is currently stalled.

Tinker said scientists consider the population stable, but still in a depleted state. The U.S. government lists sea otters as a threatened species, and the animals are protected by the California Endangered Species Act, the U.S. Endangered Species Act, and the Marine Mammal Protection Act of 1972.

Still Threatened

California's small sea otter population has a few natural predators, such as great white sharks and killer whales, but human activity is a great threat to these animals. Fertilizers and other contaminants are washed into the ocean from land, bringing chemicals and parasites that can cause disease and death in otters and other marine species. Disease-causing pathogens that originate on land can reach the marine environment through storm sewers, sewage outflow, surface run-off, and polluted waterways. Once in the marine environment, sea otters can ingest these pathogens and harmful toxins by way of their food.

Marine debris, such as fishing nets and long lines, can entangle and harm the animals. Oil spills are especially harmful to sea otters because the oil coats their dense

fur, destroying its waterproofing and insulating capabilities. The otter ends up freezing to death or being poisoned from ingesting the oil while trying to clean its fur. California's sea otters are concentrated in a relatively small area, and a major oil spill off the central coast could wipe out the entire population. Overfishing is another threat to sea otters. When stocks of their favorite foods are depleted, sea otters have to rely on poorer quality foods, which in some cases carry dangerous parasites. When food is very scarce, otters lose weight and spend more time feeding, and because they are nutritionally stressed, they are more susceptible to disease. Emerging threats such as climate change and ocean acidification will pose additional challenges for the species.

Family Matters

Newborn sea otters are dependent on their mothers for at least six months. Mothers teach their babies how to forage, swim, and groom, things that are essential for survival. Babies that are separated from their mothers have slim odds for survival.

In some cases, baby sea otters that are found stranded can be successfully rehabilitated, reared by "surrogate mother" sea otters in captivity, and eventually returned to the wild population. In other cases, young sea otters are judged incapable of surviving in their natural environment, and they are sent to zoos and aquariums where they serve as ambassadors for their brethren in the wild. All of the Aquarium's sea otters were found stranded soon after their births.

California's sea otter population is struggling, but a caring public can make a difference in its recovery. Be sure to visit the Northern Pacific Gallery to learn more about these animals and to find out how you can help.

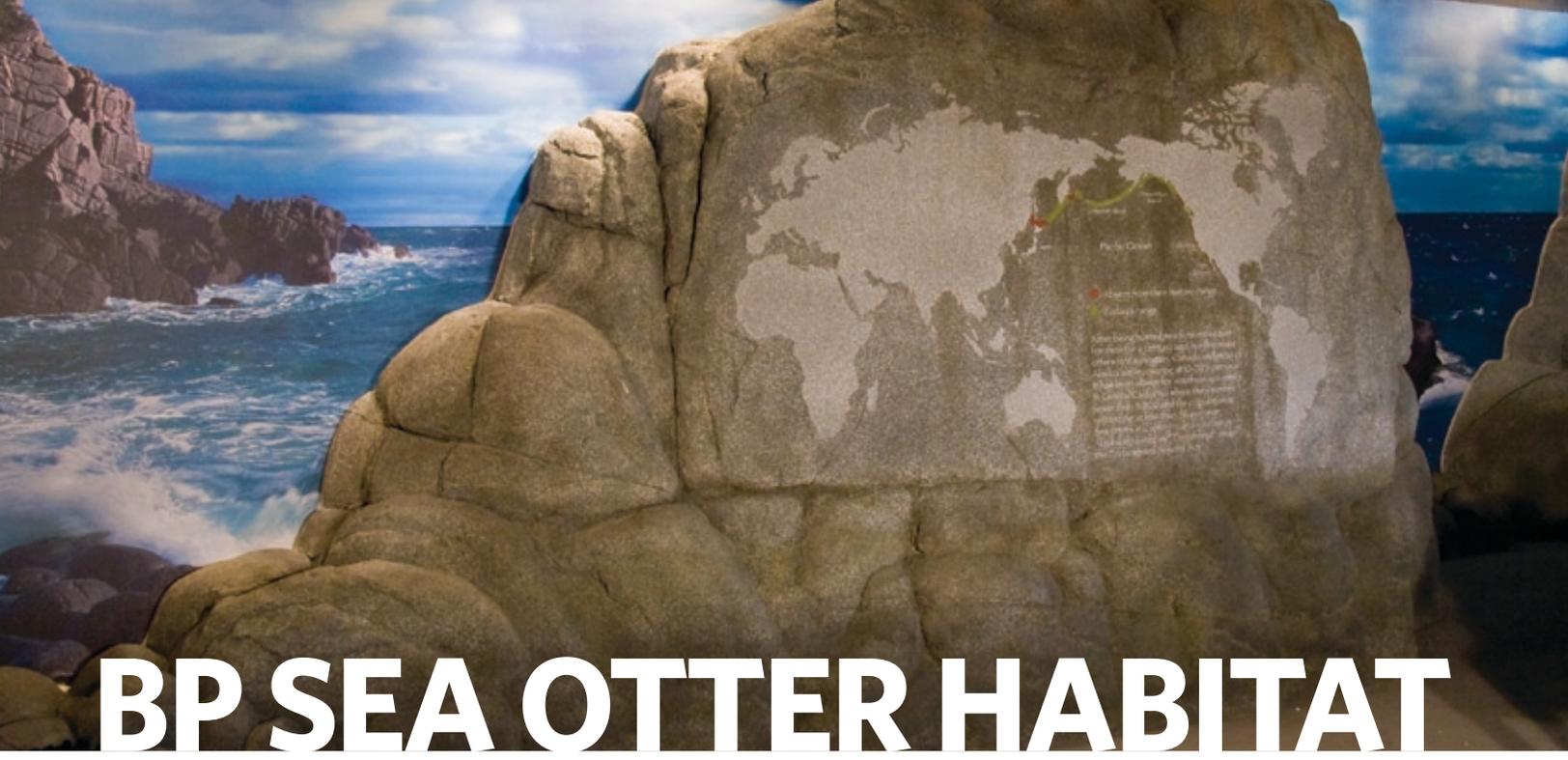


HUGH RYONO



Maintaining healthy teeth is an important part in the overall health of sea otters.

HUGH RYONO



BP SEA OTTER HABITAT

The transformed exhibit lets guests visit the animals and their native coastal ecosystem.

THE AQUARIUM of the Pacific's new sea otter exhibit will transport visitors to California's Central Coast to experience the sights, textures, even the quality of light of our sea otter's native habitat. The rocky coastline will blend into vistas looking seaward as well as inland. And visitors will walk among barnacle-encrusted pilings at low tide.

Designer Tom Bowman of the Bowman Design Group in Signal Hill calls the exhibit "an immersive experience that takes visitors into the environment where sea otters live. The changes were more than a year in the making and guests are going to love what they see."

Inside the habitat, our otters will swim among kelp and several species of fish. A larger above-water area will give the otters more room to interact with staff. The rocks have been lowered and resculpted, creating a more open and realistic environment. The lowered rockwork allows natural light from skylights to flood the exhibit. As the light changes from morning to mid-day to late afternoon, visitors will see the exhibit literally in a whole new light. Suspended cloud murals take the transformation all the way up to the ceiling.

With the addition of our newest otter, Maggie (see Page 4), our visitors will enjoy a lively window into the social behavior of these marine mammals. The new exhibit will house

Maggie as well as our existing otters, but has room for up to six animals, giving us the opportunity to provide a home for other sea otters that are unable to survive in the wild.

Outside the habitat, new seating will enhance moments of reflection, while a new ramp over the stairs will help ease access to and from the exhibit. Visitors will also be able to play an interactive game. *Sea Otter Journey*, created by Cortina Productions of Virginia, teaches guests about sea otter behavior, natural history, and human impacts on otter habitats and welfare. The touch-screen exhibit is the first of its kind and will engage

Visitors will enjoy a lively window into the social behavior of sea otters.

families and friends, as well as individuals, in friendly competition that will enhance learning and motivate stewardship. New graphics placed throughout the visitors' area will provide information about sea otters, such as their habitat, eating habits, and the environmental conditions affecting them.

Our otters will soon enjoy their new home, and our guests can enjoy a coastal Central California experience. Be sure to visit the transformed BP Sea Otter Habitat, and learn more about these truly special residents of the kelp forest. The new BP Sea Otter Habitat will open to the public on Friday, May 21. There will be a family member preview on Sunday, May 16, an adult member preview on Monday, May 17, and a Pacific Circle member preview on Wednesday, May 19.



THE BP SEA OTTER HABITAT WAS MADE POSSIBLE BY BP

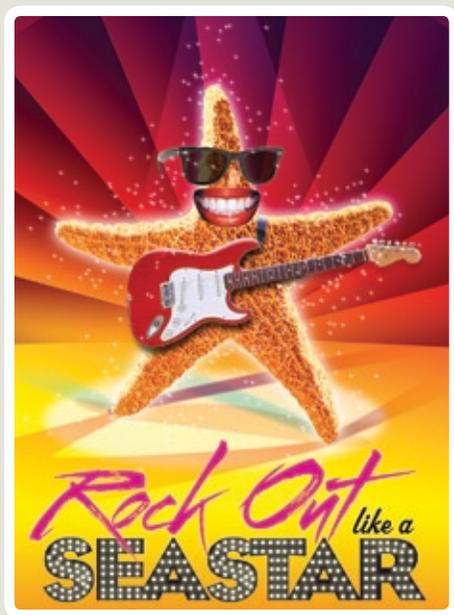


The Aquarium of the Pacific offers programs and events for all ages and interests. With exclusive events for our members, cultural festivals, a guest speaker series, and educational classes for families and children, there is something for everyone.

GREAT AQUARIUM ACTIVITIES!

MEMBER EVENTS

Please join us for one of these select events just for our members and their guests.



M MEMBER TEEN NIGHT

THURSDAY, JULY 22 | 6:30 p.m.-10:00 p.m.

Rock out like a sea star. This new Member Teen Night is like never before. Enjoy a pizza dinner in front of the Blue Cavern exhibit followed by an evening of fun as you make your way throughout the Aquarium in a series of exciting activities created just for teens. Meet some of our program animals, go behind the scenes of our Tropical Pacific Gallery to see our fish from above the waterline, learn to cook delicious after school snacks with Aquarium chefs, show off your video game guitar and drummer skills, and participate in a cool science experiment. This will be a night our member teens won't want to miss!

COST | Free for member teens. Members may bring guests with their 20% discount off general admission

RSVP | (562) 437-FISH (3474) required by Monday, July 19

MEMBER EVENTS

M ADULT MEMBER POLYNESIAN PARTY

THURSDAY, JULY 29 (AGES 21+ ONLY)
7:00 P.M.-10:00 P.M.

Don your favorite Hawaiian shirt, and join us for an authentic Polynesian party in the Great Hall under the blue whale. Enjoy a delicious Polynesian dinner, live performances by Polynesian dancers, learn to make flower lei bracelets, participate in contests, dance to a live band playing some of your favorite tunes, and cool down with a refreshing specialty cocktail from our cash bars while enjoying the Aquarium's exhibits.

MENU:

Green Salad with Sesame Ginger Dressing
Potato Macaroni Salad
Tropical Fruit Salad
Fried Rice
Stir-Fried Tofu with
Japanese Eggplant and Mushrooms
Grilled Chicken Kabob with a Guava Glaze
Teriyaki Glazed Salmon with a Tropical Salsa
Pineapple Upside-Down Cake

COST | \$23.95 for members; \$33.95 for member guests

RSVP | (562) 437-FISH (3474) required by Monday, July 26

M MEMBER CARNIVAL DAY

SUNDAY, AUGUST 22 | 3:00 p.m.-6:00 p.m.

Bring your family to the Aquarium for an afternoon of fun and games. The Aquarium's front lawn will transform into an under-the-sea carnival with booth games, a bounce house, mother-daughter and father-son relays, face painting, arts and crafts, a royal flush dunk tank, and much more!

COST | \$5 for members (ages 2 and under free); \$15 for member guests

RSVP | (562) 437-FISH (3474) required by Thursday, August 19

MEMBER EVENTS

M SENIOR MEMBER AFTERNOON

THURSDAY, SEPTEMBER 16 | 2:00 p.m.-3:00 p.m.
and 3:30 p.m.-4:30 p.m.

Have you always wanted to learn how to grow orchids in your home? Join us as Eric Fang from Norman's Orchids gives a presentation on which orchids to choose for your home and how to grow them. Fang will also give "green" tips for taking care of your orchids. A tropical snack and beverage will be available during the presentation. We look forward to seeing you there!

COST | Free for Pacific Circle and senior members
RSVP | (562) 437-FISH (3474) required by Monday, September 13



M PACIFIC CIRCLE AND STEWARD LEVEL MEMBER WHALE WATCH

SATURDAY, SEPTEMBER 25 | 12:00 p.m.-2:30 p.m.

Ahoy Pacific Circle and Steward-level members. As a special thank you for your invaluable support, join us on an action-packed afternoon trip on the Pacific Ocean. Our very own Aquarium educator will take you on a voyage in search of blue whales, dolphins, seals, and sea birds. Be sure to bring your camera as you may have an opportunity to capture a breathtaking moment witnessing blue whales in their natural habitat. Space is limited.

COST | Free for Pacific Circle and Steward-level members

RSVP | (562) 437-FISH (3474) required by Wednesday, September 22

SAVE THE DATE

Discounted 10 O'Clock Sunday Late Nights June 6 through September 5

NEW & NOTEWORTHY

The Aquarium is free to seniors (ages 50 and older) on Seniors Day, Wednesday, September 8

GENERAL EVENTS

The Aquarium of the Pacific hosts a variety of cultural and family festivals, fundraisers, picnics, and other events throughout the year. Check our website for more details and additional events.

GE PACIFIC ISLANDER FESTIVAL

SATURDAY-SUNDAY, JUNE 5-6 | 9:00 a.m.-5:00 p.m.

Discover the rich and diverse cultures of the Pacific Islands. Watch hula performances, listen to Tahitian drumming, try ancient Hawaiian games, enjoy island cuisine, and admire the work of artisans as they create traditional weavings. The 7th annual Pacific Islander Festival will feature Fijian, Hawaiian, Marshallese, Chamoru, Tahitian, Samoan, Maori, and Tokelau cultures.

COST | Free for members; members' guests receive 20% off regular admission

INFO | (562) 437-FISH (3474)

GE OCEAN CONSERVATION AWARDS GALA

SATURDAY, JUNE 12 | 6:30 p.m.-11:00 p.m.

The Aquarium hosts its 12th annual Ocean Conservation Awards Gala filled with old Hollywood glamour, fine dining, and a Night at the Movies as we honor producer Janet and writer/director Jerry Zucker. In addition to their accomplishments in writing, producing, and directing films such as *Ghost*, *Naked Gun*, and *First Knight*, Janet and Jerry Zucker are vice chairs of The Science & Entertainment Exchange, a program for the entertainment industry that translates advances in scientific understanding into forms that engage, educate, and empower the public. Join us for cocktails and hors d'oeuvres, a full-course gourmet dinner, a special awards program, and an after-hours lounge with live entertainment.

COST | \$500 per seat

RSVP | (562) 951-1606 or lglasco@lbaop.org

GENERAL EVENTS



GE URBAN OCEAN FESTIVAL

SATURDAY-SUNDAY, SEPTEMBER 11-12
9:00 A.M.-5:00 P.M.

In Southern California, more than 20 million people live within 50 miles of the Pacific Ocean. Human uses of the coastal ocean are intense and often conflict with one another and with marine life. Join us as we explore and celebrate Southern California's Urban Ocean with this new annual weekend festival. The weekend will include an art contest, poetry readings, food, and educational activities. There will also be a Poetry and Photography Cruise on Friday, September 10 for a fee.

COST | Free for members; members' guests receive 20% off regular admission

INFO | (562) 437-FISH (3474)

GE MOOMPETAM

SATURDAY-SUNDAY, SEPTEMBER 18-19
9:00 A.M.-5:00 P.M.

To honor local Native American cultures, the Aquarium of the Pacific will host its annual Moompetam Festival. This weekend celebration will feature traditional cultural crafts, storytelling, educational programs, live demonstrations, music, and dance celebrating the indigenous California Indian maritime cultures, including Tongva, Chumash, Ajachemen, Costanoan, Luiseno, and Kumeyaay.

COST | Free for members; members' guests receive 20% off regular admission

INFO | (562) 437-FISH (3474)

GE BAJA SPLASH

SATURDAY-SUNDAY, SEPTEMBER 25-26
9:00 A.M.-5:00 P.M.

In honor of National Hispanic Heritage Month, the Aquarium of the Pacific celebrates the beauty and diversity of Hispanic cultures. Baja Splash features music, dance, art and cultural displays, ethnic foods, and much more. Guests can also learn more about the animals of Baja California, Mexico and how to protect them.

COST | Free for members; members' guests receive 20% off regular admission

INFO | (562) 437-FISH (3474)

SPONSOR | AT&T

GENERAL EVENTS

GE SOUTHEAST ASIA DAY

SATURDAY, OCTOBER 9 | 9:00 a.m.-5:00 p.m.

The Aquarium celebrates its annual Southeast Asia Day by highlighting the beauty and diversity of Cambodian, Thai, Vietnamese, Burmese, Laotian, and Indonesian cultures. Guests will enjoy live performances, including music, dance, and cultural craft demonstrations. Ethnic dishes will be available for purchase, and children will have the opportunity to partake in arts and crafts.

COST | Free for members; members' guests receive 20% off regular admission

INFO | (562) 437-FISH (3474)

GE SEA FARE

SATURDAY, OCTOBER 16 | 7:00 p.m.-11:00 p.m.

The Aquarium of the Pacific will host its seventh annual Sea Fare, an evening of dining, live music, and auctions. Guests can enjoy tastes from over 20 local restaurant chefs—serving delectable entrees, local brews, fine wines, and scrumptious desserts. In addition to strolling through our Aquarium galleries, you can visit one of our open bars while listening to live music and bidding on one-of-a-kind items at our live and silent auctions. We will have a \$500 cash raffle and a "Go Fish" opportunity game where you can win gift certificates, gift baskets, hotel stays, tickets to performances, and more. All proceeds support our education and conservation initiatives.

COST | \$100 per person (\$50 is tax deductible)

RSVP | (562) 437-FISH (3474)

GE SUMMER PICNICS | What is Summer Without a Picnic?

Memorial Day

MONDAY, MAY 31 | 11:30 a.m.-1:30 p.m.

Kick off your summer with a picnic at the Aquarium.

Father's Day

SUNDAY, JUNE 20 | 11:30 a.m.-1:30 p.m.

Show dad how much you care, and treat him to a special day.

4th of July

SUNDAY, JULY 4 | 6:00 p.m.-8:00 p.m.

Celebrate the USA with extended hours to 10:00 p.m., fireworks, and a buffet BBQ picnic.

Labor Day

MONDAY, SEPTEMBER 6 | 11:30 a.m.-1:30 p.m.

Summer winds down with a BBQ buffet featuring home-style entrees right off the grill.

COST | Members \$24 (adult or senior); \$17 (child)
Non-members \$34 adult or senior; \$27 child

RSVP | (562) 590-3100, Ext. 0

Seating is limited, and advance reservations are strongly recommended. Check our website for full menus.



CARING FOR THE AQUARIUM'S ANIMALS

ANDREW BETSMA

Hear guest speakers from across the country. Learn about our ocean planet and much more.

GUEST SPEAKERS

The Aquarium hosts guest lectures on a variety of topics from experts across the country.



GS JAMES N. SANCHIRICO | *Ocean Zoning*
THURSDAY, MAY 13 | 7:00 p.m.

We need an adaptive ocean governance that fosters a sustainable and wise use of the ocean and coastal resources. We also need to reward innovation and establish ways other than regulation to address use conflicts in the marine environment. This lecture will focus on the steps that are necessary in the development of adaptation policy for U.S. marine and coastal ecosystems.

Dr. Jim Sanchirico is a professor of Environmental Science and Policy at the University of California, Davis. His expertise encompasses the economic analysis of policy design and implementation for marine and terrestrial species conservation, the development of economic-ecological models for forecasting the effects of resource management policies on economics and ecology, and the control and prevention of invasive species. He recently served on the National Research Council's committee to review the U.S. Ocean Research Priorities Plan.

GUEST SPEAKERS

GS LANCE ADAMS | *Caring for the Aquarium's Animals*

THURSDAY, MAY 27 | 7:00 p.m.

Surgery on small fish, check-ups on eight-foot sharks, and monitoring male sea horse pregnancies—it's all in a day's work for Dr. Lance Adams, Aquarium of the Pacific's staff veterinarian. The Aquarium has more than 11,000 animals, representing nearly 500 species, and Dr. Adams cares for them all. With the opening of the Molina Animal Care Center, Dr. Adams and his staff will have more space and updated technology at their disposal.

Dr. Adams has been the Aquarium's veterinarian since 2001. He holds a bachelor's degree in animal science from Cal Poly Pomona and a Doctor of Veterinary Medicine (DVM) from Kansas State University.

GS HENRY POLLACK | *Earth's Changing Climate: Headed Toward a World Without Ice?*

THURSDAY, JUNE 3 | 7:00 p.m.

Whether sculpting mountains, regulating temperature, influencing ocean currents, or defining the limits of human settlement, ice shaped the world in which we live. But humans are changing this critical component of our global environment. Rapid population growth and the rise of industrial economies have pushed the relationship between ice and people to a tipping point. Soon, for the first time in human history, we may live on a planet without ice. Dr. Henry Pollack presents a compelling look at the delicate geological balance between ice and climate.

Dr. Pollack is a professor of geophysics (emeritus) at the University of Michigan.

GUEST SPEAKERS

GS BEN SHERWOOD | *The Survivors Club*
THURSDAY, JUNE 10 | 7:00 p.m.

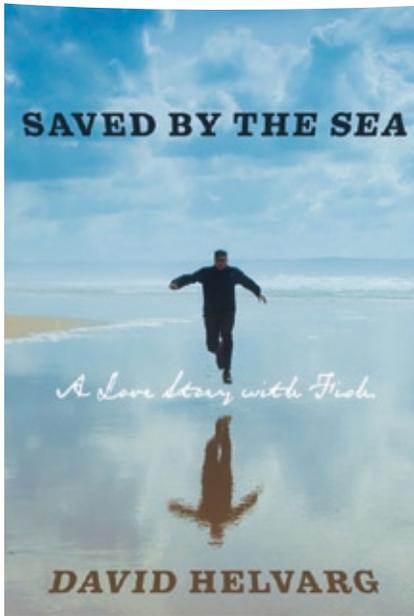
When Captain Richard Phillips was captured by Somali pirates, risking his life in order to save his crew aboard the Maersk Alabama, he was instantly hailed as a hero. On closer look, however, Phillips is a case study of the world's most effective survivors and thrivers. In this presentation, bestselling author Ben Sherwood explores the essential leadership lessons of men and women who have faced extraordinary adversity and managed to triumph. Sherwood has traveled worldwide to gain insight from survivors of every imaginable adversity ranging from bankruptcy and foreclosure to mountain lion attacks and violent crime to the Nazi Holocaust.

A graduate of Harvard and a Rhodes Scholar, Sherwood earned master's degrees in history and development economics at Oxford University. An award-winning journalist and former producer, Sherwood lives in Los Angeles.

GS MAUREEN CALLANAN | *Learning Science in Informal Environments*

THURSDAY, JUNE 24 | 7:00 p.m.

Maureen Callanan is professor of psychology at the University of California Santa Cruz. Her research focuses on cognitive and language development in young children, exploring how children come to understand the world through everyday conversations with their parents. She was a member of the National Research Council committee that wrote the report "Learning Science in Informal Environments: People, Places, and Pursuits." She will discuss her report and her other work on this topic.



GUEST SPEAKERS

GS DAVID HELVARG | *Saved by the Sea*
WEDNESDAY, JULY 28 | 7:00 p.m.

Long-time ocean enthusiast, journalist, and founder of the Blue Frontier Campaign David Helvarg talks about his life's journey to the sea as documented in his latest book, *Saved by the Sea—A Love Story with Fish*.

From bodysurfing Central American war zones, diving barrier reefs with his tragically fated love, or being bumped by a whale off Antarctica, Helvarg has lived a life often as endangered as the ocean he now works to protect. The journey he recounts over the last half-century is a profound, startling and sometimes surprisingly funny reflection on the state of our seas and the intimate ways in which our lives are linked to the natural world.

David Helvarg is president of the Blue Frontier Campaign (www.bluefront.org) and the author of five books: *The War Against the Greens*, *Blue Frontier*, *50 Ways to Save the Ocean*, *Rescue Warriors*, and *Saved by the Sea*. He's editor of the *Ocean and Coastal Conservation Guide*, organizer of several 'Blue Vision' Summits for ocean activists, and winner of *Coastal Living* magazine's 2005 Leadership Award and the 2007 Herman Melville Literary Award. He produced more than 40 broadcast documentaries for PBS, The Discovery Channel, and others. His print work has appeared in *The New York Times*, *The Los Angeles Times*, *Smithsonian*, *Sierra*, and *The Nation*.

GUEST SPEAKERS

GS CURTIS EBBESMEYER | *Flotsametrics and the Floating World*
THURSDAY, AUGUST 12 | 7:00 p.m.

As an oceanographer for Mobil/Standard Oil, Dr. Curtis Ebbesmeyer was fascinated by sea currents and eddies and began to focus on beaches and the debris deposited on them. An epiphany came in May 1990 when a Pacific storm knocked five containers filled with thousands of athletic shoes off a cargo vessel. Nearly a year later, the shoes began washing up along the West Coast of North America. With the help of beachcombers, Dr. Ebbesmeyer tracked the progress of the shoes up and down the coast and as far as Hawaii, producing a groundbreaking study of ocean currents. Hear Dr. Ebbesmeyer explain the science of beachcombing.

Dr. Ebbesmeyer holds a Ph.D. in oceanography from the University of Washington and lives in Seattle. Each year he presents talks at beachcomber fairs and hosts the radio program *Flotsam Hour*, in which listeners call in with interesting finds.

GUEST SPEAKERS

GS RICHARD SALAS | *Sea of Light*
TUESDAY, SEPTEMBER 14 | 7:00 p.m.

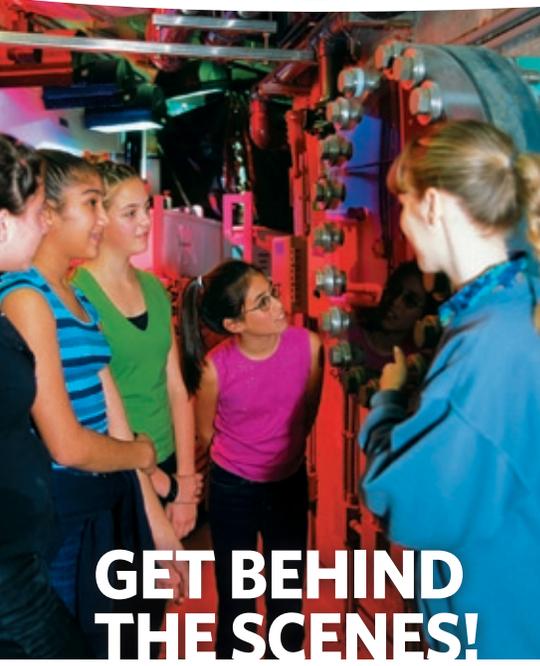
As a child in Laguna Beach, Richard Salas often wished he could swim through the tide pools and the underwater world. A photography class in high school gave his life new purpose, and further studies at the Brooks Institute of Photography inspired Salas to take his love for the ocean in a new direction.

Join the Santa Barbara photographer as he chronicles the undersea beauty of California's Channel Islands. For the last five years Salas has braved the cold waters and unpredictable currents to create a collection of portraits and seascapes. Not content to simply record the well-known life forms, Salas uses dramatic lighting to uncover a world of never-ending color and texture that is inhabited by personalities ranging from the comical to the sinister.

.....
COST | Free for Pacific Circle members, teachers, and students with Valid ID and advanced reservations. | \$4/members \$8/non-members
RSVP | (562) 437-FISH (3474)

Guest speaker sponsor:





GET BEHIND THE SCENES!

AQUARIUM TOURS

These programs are opportunities to see the Aquarium and its animals in a different light.

AT BEHIND-THE-SCENES TOURS

DAILY | times vary

Guests will go above our largest exhibit to feed the fishes, get a glimpse of areas behind Shark Lagoon, and see our new Molina Animal Care Center.

COST | \$11/member | \$15/non-member
does not include Aquarium admission

AGES | 7+ years

LENGTH | one hour

GROUP SIZE | maximum 10 participants

RSVP | (562) 951-1630, online, or sign up on day of visit

AT ANIMAL ENCOUNTERS

SATURDAYS and SUNDAYS | see times below

Join us for a very special experience to learn about feeding and caring for some of our marine animals. Roll up your sleeves, prepare some food, and get ready to be up close and personal for a feeding with a seal, sea lion, sea otter, or even a shark. There are lots of surprises along the way, so be prepared to get your hands wet!

THEMES | *Seals & Sea Lions* 9:30-11:30 a.m. | *Sharks* 12:30-2:30 p.m. | *Sea Otters* 12:30-2:30 p.m.

COST | \$80/member | \$90/non-member
includes Aquarium admission

AGES | 10+ years | *Seals & Sea Lions* | *Sea Otters*
13+ years | *Sharks*

Some height restrictions apply. Participants under 16 years must be accompanied by an adult

RSVP | (562) 951-1630

AQUARIUM SLEEPOVERS

Pack your sleeping bag and toothbrush for a night of adventure at the Aquarium of the Pacific. These programs include a pizza dinner, snack, craft, cereal breakfast, and T-shirt.

SL BIRTHDAY PARTY SLEEPOVER

based on availability | 5:00 p.m.-7:00 a.m.

Join us for an all-night celebration with a special birthday party sleepover featuring animal touch time, a feeding opportunity, presentations, a behind-the-scenes tour, and crafts. Please bring your own birthday cake.

COST | \$60/member | \$70/non-member

AGES | 5+ years | one adult required per 10 children

THEMES | *Sharks, Marine Mammals, or Turtles*

GROUP SIZE | 20-50 participants

RSVP | (562) 951-1630

SL ADULT SLEEPOVER

based on availability | 6:00 p.m.-9:00 a.m.

Enjoy the tranquility and serenity of the Aquarium at night. Unwind with yoga and meditation before meeting an animal, hearing an informal lecture by a marine educator, taking guided tours, seeing special presentations, and sleeping next to one of our large exhibits. Included are a gourmet pizza dinner with wine, beer, or soda and a continental breakfast.

COST | \$60/member | \$70/non-member

AGES | 18+ years

GROUP SIZE | 20-60 participants

RSVP | (562) 951-1630

SL FAMILY SLEEPOVER

FRIDAY, JULY 23 | 5:00 p.m.-7:00 a.m.

Bring your whole family and spend an evening exploring the Aquarium after dark. Discover the unique relationships and habitats of our ocean critters through hands-on activities and gallery observations.

COST/PERSON | \$50/member | \$60/non-member

AGES | 5+ years, plus adult chaperone

GROUP SIZE | 20-60 participants

RSVP | (562) 951-1630

SL YOUTH GROUP SLEEPOVER

MONDAY OR WEDNESDAY EVENINGS

based on availability | 5:00 p.m.-7:00 a.m.

Anchors aweigh as we become sailors in search of the missing treasures of the sea. Investigate the fascinating aquatic food web and follow a treasure map in search of ocean knowledge!

COST/PERSON | \$50/member | \$60/non-member

AGES | 5+ years, plus adult chaperone

GROUP SIZE | 20-60 participants

RSVP | (562) 951-1630



Dive In Today!

DIVE IMMERSION

based on availability | 3:00 p.m.-5:30 p.m.

For the first-time ever general certified divers can explore the Aquarium of the Pacific's 350,000-gallon Tropical Reef Habitat and meet more than 1,000 tropical fish up close and personal. In this two-and-a-half-hour experience, you get a personal behind-the-scenes tour of our dive program, a dive in our largest exhibit, a certificate of completion, souvenir towel, use of an underwater camera, and a data stick of your photos to take home. You may also bring your own underwater camera. All equipment is provided, but guests may bring their own mask and booties. A current and valid diver certification is required.

COST | \$299 per person; \$279 for members

AGE | 15 and up. Ages 15-17 require a supervising adult to also sign up for the dive

AVAILABILITY | Daily beginning June 1, 2010

CAPACITY | 4 participants

RESERVATIONS | Must be made at least 24 hours in advance by calling (562) 590-3100, ext. 0.

SPONSORED BY



SPECIAL PROGRAMS



SP BIRTHDAY PARTIES

AVAILABLE BY RESERVATION ONLY

Let us make your child's next birthday celebration special. The Aquarium will supply all the ingredients for an unforgettable party, including a themed one-hour classroom program featuring animal touch time, biofact discovery, and a take home souvenir craft project. The party concludes with an additional half hour in the classroom for the birthday celebration. Please bring your own birthday cake. Aquarium admission is included. All you need to do is call us a least two weeks prior to reserve a date (subject to availability), and then invite your guests. We also offer birthday sleepovers.

COST | \$33/member | \$39/non-member | 15 person minimum, includes Aquarium admission

AGES | all ages, one adult required per 10 children

THEMES | Sharks, Marine Mammals, or Turtles

GROUP SIZE | 15-45 participants

INFO | (562) 951-1630



SP AQUARIUM ON WHEELS

AVAILABLE BY RESERVATION ONLY

The Aquarium on Wheels is dedicated to developing children's appreciation for the wonders of the ocean environment. Along with an educational presentation, hands-on activities, and environmental message, our outreach educational program provides children the chance to touch sharks, sea stars, anemones, urchins, and other marine inhabitants. This mobile tidepool exhibit is not just for schools—it is also great for display at festivals, fairs, and even birthday parties. Aquarium on Wheels will deliver a memorable experience for all!

INFO | (562) 951-1630

OUTDOOR ADVENTURES

Go beyond the Aquarium to participate in one of these offsite classes in the great outdoors.

OA NATURE BY KAYAK

SAT., JUNE 12 | SAT., SEPTEMBER 25 | SUN., JULY 11 | SUN., AUGUST 15
9:00 A.M.-12:00 P.M.

Join us for a morning of gentle paddling in the Upper Newport Bay Ecological Preserve for an up-close view of nature. After an introductory lesson, you will be led on a naturalist-guided kayak expedition. Both double and single kayaks are available in this off-site class.

COST | \$53/member | \$58/non-member

AGES | 11+ years, plus adult chaperone if under age 16

WHERE | meets offsite | map included in confirmation materials

RSVP | (562) 951-1630

OA BLUE WHALE WATCH

SUMMER SEASON

Search out the elusive and magnificent blue whale with the Aquarium of the Pacific and Harbor Breeze Cruises. Blue whales seek out the nutrient-rich waters right off our coast each summer. Along the way, you may even spot a variety of other animals, including dolphins, seals, sea lions, and sea birds.

COST | Members: \$45/adult, \$35/senior (ages 62+), \$25/child (ages 3-11); Non-members (includes Aquarium admission): \$62.95/adult, \$54.95/senior (ages 62+), \$38.95/child

AGES | Children under 16 must be accompanied by an adult

LENGTH | 3-3.5 hours

RSVP | (562) 951-1630

OA DOLPHIN AND SEA LIFE CRUISE

FALL SEASON

The Pacific Ocean is home to many wondrous animals year 'round. Join us as we search for dolphins, seals, sea lions, and marine birds on our Dolphin and Sea Life Cruise. This is an experience you and your family will not soon forget!

COST | Members: \$25/adult, \$20/senior (ages 62+), \$15/child (ages 3-11)
Non-members (includes Aquarium admission): \$42.95/adult, \$39.95/senior (ages 62+), \$28.95/child (ages 3-11)

AGES | Children under 16 must be accompanied by an adult

LENGTH | 2- 2.5 hours

RSVP | (562) 951-1630



YOUTH PROGRAMS

YP JUNIOR BIOLOGIST PROGRAM

SATURDAYS | 9:30-11:30 a.m. | topics vary, see below

Participants will independently investigate marine life during this exploratory program. This class offers hands-on animal touch time, Aquarium animal observation, and activities relating to each topic. Select the topic that is most interesting, or take all the classes to learn about the variety of animals found at the Aquarium.

TOPIC Marine Mammals	JUNE 12 (ages 7-10)
	JUNE 19 (ages 10-12)
Invertebrates	JULY 17 (ages 7-10)
	JULY 24 (ages 10-12)
Fish	AUGUST 14 (ages 7-10)
	AUGUST 21 (ages 10-12)
Birds & Reptiles	SEPT. 11 (ages 7-10)
	SEPT. 18 (ages 10-12)

COST | \$19/member | \$24/non-member
due to the popularity of this program, all participants must RSVP and pre-pay; does not include Aquarium admission

RSVP | (562) 951-1630

YP JOB SHADOW

SATURDAYS | 9:00 a.m.-12:00 p.m. | topics vary, see below

This program is for students who are interested in animal husbandry or marine biology careers. Students will learn what it takes to run a world-class aquarium and get a hands-on opportunity to participate in everyday activities that help maintain the Aquarium. Students will go behind the scenes, shadowing education and husbandry staff.

TOPIC | Veterinarian JUNE 5 | Aquarist JULY 10 | Mammalogist AUGUST 7 | Aviculturist SEPT. 4

COST | \$24/member | \$29/non-member
does not include Aquarium admission

AGES | grades 7-12

RSVP | (562) 951-1630

DAY CAMPS

DC FISH FRY CAMP

TUESDAYS-THURSDAYS | JUNE 29-JULY 1, JULY 27-29, or AUGUST 10-12 | 8:30 a.m.-10:30 a.m.

Did you know that newly hatched fish are called fry? Bring your three- or four-year-old little fry to the Aquarium for a special parent-child day camp! During this three-day camp you and your child will wet your appetites for marine life with hands-on exploration, crafts, games, and Aquarium tours. Dive into a watery world that you and your child will not soon forget.

COST | PAIRS: \$85/member; \$110/non-member (includes Aquarium admission)
ADDITIONAL PERSON: \$20/member; \$30/non-member

AGES | 3-4 with an adult partner (no more than 2 children per adult. Please no younger or older siblings outside of age range)

RSVP | (562) 951-1630

DC SEA SQUIRT CAMP

TUE.-THU. | JUNE 22-24 *Camp 1* | JULY 6-8 *Camp 2* | JULY 27-29 *Camp 1* | AUGUST 3-5 *Camp 2*
8:30 a.m.-11:30 a.m.

This three-day morning camp offers an exciting introduction to marine biology for five- and six-year-olds. Campers will discover an underwater wonderland filled with wiggly fish, furry mammals, and boneless beauties. This camp encourages social interaction and exploration independently from parents. Through hands-on activities, stories, crafts, and tours, your child will prove that little learners can learn big things!

COST | \$90/member; \$115/non-member

AGES | 5-6 children only

RSVP | (562) 951-1630

DC OCEAN ADVENTURE DAY CAMP

MON.-FRI. | JULY 5-9 or AUGUST 23-27 *Day Camp 1*
JULY 12-16 *Day Camp 2* | JULY 19-23 *Day Camp 3*
AUGUST 16-20 *Day Camp 4*

Explore the Pacific Ocean and its inhabitants during our weeklong summer day camp adventures. Campers will get the chance to go behind the scenes, meet our animal husbandry staff, and help us take care of some of the animals that make their home here at the Aquarium. Each Day Camp week is a different program.

COST | HALF DAYS: \$140/member; \$160/non-member
FULL DAYS: \$260/member; \$290/non-member

AGES | Grades 2-4 children only, must be at least 7 years old to participate

LENGTH | HALF-DAYS: 8:00 a.m.-12:00 p.m. or 1:00 p.m.-5:00 p.m.

FULL-DAYS: 8:00 a.m.-5:00 p.m.

RSVP | (562) 951-1630



SEA SQUIRT DAY CAMP

DAY CAMPS

DC JUNIOR BIOLOGIST DAY CAMP

MON.-FRI. | JUNE 21-25 *Camp 1* | JUNE 28-JULY 2 *Camp 2* | JULY 19-23 *Camp 1* | AUGUST 2-6 *Camp 2*

Children ages 10-12 dive deeper into the field of marine biology. Based on our popular Junior Biologist classes, this camp will feature elements of our traditional Day Camp program, including crafts and games as well as special behind-the-scenes privileges, animal interaction, and much more.

COST | HALF DAYS: \$140/member; \$160/non-member
FULL DAYS: \$260/member; \$290/non-member

AGES | Grades 5- 7 children only

LENGTH | HALF DAYS: 8:00 a.m.-12:00 p.m. or 1:00 p.m.-5:00 p.m.

FULL DAYS: 8:00 a.m.-5:00 p.m.

RSVP | (562) 951-1630

DC MARINE SCIENTIST SLEEPOVER CAMP

MONDAY-THURSDAY, AUGUST 9-12

This three-day camp boasts something none of our other camps offer: the chance to sleep under the sea stars! Dive into science as you conduct marine biology experiments, go on behind-the-scenes tours, have unique animal interactions, and journal about your discoveries. The camp ends with a sleepover, which includes a pizza party dinner, a movie and popcorn, and special keepsake T-shirt.

COST | \$240/member, \$270/non-member

AGES | Grades 7-9 children only

LENGTH | MON. & TUE.: 8:00 a.m.-5:00 p.m.

WED. & THU.: 8:00 a.m.-7:30 a.m.

RSVP | (562) 951-1630

SATURDAY FAMILY FUN PROGRAMS

Children, along with a parent or adult chaperone, will investigate the ocean world in a structured classroom program that includes interactive and hands-on activities. These programs foster the students' discovery as well as interaction in relationships.

FP TOTALLY TURTLES

SATURDAY, JUNE 26 | 10:00-11:30 a.m.

You may enjoy a sweet treat of Jelly Bellies, but a sea turtle prefers having a belly full of jellies! Discover fun facts and turtle trivia as we explore these reptiles.

FP SHARK SLEUTHS

SATURDAY, JULY 31 | 10:00-11:30 a.m.

Discover how sharks' amazing adaptations make them excellent predators. Get an up-close view of these creatures and others as we learn all about sharks!

FP MAGNIFICENT MARINE MAMMALS

SATURDAY, AUGUST 28 | 10:00-11:30 a.m.

What animals are warm-blooded, hairy, breathe air, and live in the ocean? Marine mammals! Join us as we learn the special ways sea otters, seals, sea lions, whales, and other marine mammals survive in the sea.

FP SEA JELLIES AND OTHER INCREDIBLE INVERTEBRATES

SATURDAY, SEPTEMBER 25 | 10:00-11:30 a.m.

They may be spineless, but they are the backbone of nature. Join us as we learn all about jellies and their invertebrate relatives that inhabit the ocean.

COST | ADULT-CHILD PAIR: \$24/member
\$36/non-member
EXTRA PERSON: \$10/person
(includes Aquarium admission)

AGES | 4-6 years, plus adult chaperone

RSVP | (562) 951-1630

AQUA TOTS

Toddlers team up with their parent or chaperone for a first look into ocean life. Each of the Aqua Tots programs focuses and expands on a particular concept while encouraging adult and child interaction.

AQ COLORS OF THE OCEAN

THURSDAY, JUNE 3 | 3:00-4:30 p.m.

THURSDAY, SEPTEMBER 9 | 4:00-5:30 p.m.

Below the surface of the blue ocean are animals with amazing colors. Some are bright and flashy while others blend into the ocean bottom. Discover some of these colorful animals, and search for those that may be hiding.

AQ SOUNDS OF THE SEA

TUESDAY, JUNE 15 | 4:00-5:30 p.m.

TUESDAY, SEPTEMBER 21 | 3:00-4:30 p.m.

Shake, rattle, and roll as we listen to the sounds of the ocean. Experience the wonderful world of sea sounds, from the songs of a big blue whale to the barking of a sea lion.

AQ MOVIN' & GROOVIN' BENEATH THE SEA

TUESDAY, JULY 13 | 3:00-4:30 p.m.

Roll like an otter and slide like a snail as we discover animals through movement. Explore the world of sea creatures by taking a closer look at the way they move. Join us as we move and groove like the animals beneath the sea!

AQ SHORELINE SHAPES

THURSDAY, JULY 29 | 4:00-5:30 p.m.

Did you know a sea jelly is shaped a lot like a bell or that some fishes are as flat as pancakes? In the Aquarium, there are eels so skinny they look like shoestrings! Explore the exciting shapes of ocean life through a craft, songs, and hands-on activities.

AQ SUPER SENSES OF THE SEA

THURSDAY, AUGUST 5 | 3:00-4:30 p.m.

Smell the salty air and feel the cool breeze as we use our senses to explore how ocean animals use their sight, taste, touch, and hearing in their watery home. Immerse yourself in the wonder and discovery of this interactive program.

AQ SLIPPERY TO PRICKLY

TUESDAY, AUGUST 17 | 4:00-5:30 p.m.

Whether it's a slippery sea cucumber, soft and velvety bat ray, prickly sea urchin, or simply the smooth shell of a hermit crab, discover the many lovable and touchable creatures that live in the ocean. Learn what can be explored safely as we use our sense of touch on a journey through the Pacific Ocean.

COST | ADULT-CHILD PAIR: \$24/member
\$30/non-member | ADDITIONAL PERSON:
\$10/person, includes Aquarium admission

AGES | 2-3 years, plus adult chaperone

RSVP | (562) 951-1630



UNDER THE SEA SHAPES

PRESCHOOL PROGRAMS

Designed for young children to independently explore marine life, each Preschool Program class offers hands-on animal touch time, a craft project, story time, time to explore the Aquarium, a snack, and activities relating to the project.

PP LITTLE SNAPPERS

THURSDAY, JUNE 17 | 2:30-4:30 p.m.

Turtles, turtles, turtles! Did you know that some turtles live on land and some live in the ocean? Dive into the world of turtles as we explore the many types and adaptations of each.

POOL PARTY

THURSDAY, JULY 22 | 2:30-4:30 p.m.

It is time to party with the crazy creatures that call the tidepool their home! Whether we are exploring a hermit crab, or a sea snail, we will learn about their changing homes and the ways they survive in and out of the tidepool.

WACKY WATER WORLD

THURSDAY, AUGUST 19 | 2:30-4:30 p.m.

Everywhere we look there is water nearby: in the bathtub, in the sink, or even falling from the sky. We will explore why plants, animals, and people need water as we investigate this wet and wonderful world.

SHINING STARS

TUESDAY, SEPTEMBER 14 | 2:30-3:30 p.m.

How do sea stars see? What do sea stars eat? Do they sleep? We will answer these and many other interesting questions about the sea stars living in our tidepools. Join us as we explore shining stars and their neighbors.

COST | \$19/member | \$24/non-member
does not include Aquarium admission

AGES | 4-5 years

RSVP | (562) 951-1630

OTHER CLASSES

OC UNDER THE SEA SHAPES

AVAILABLE BY RESERVATION ONLY

The ocean is full of incredible animals and vibrant colors. In this interactive educator- and video-led program, children will match ocean animals, such as sharks and sea anemones, to their shapes. This exciting program is designed especially for preschool and daycare groups.

COST | \$9/member or non-member (March-June)
\$7.50/member or non-member (July-February)

AGES | 4-5 years | plus one free adult chaperone per 10 children

LENGTH | 45 minutes

GROUP SIZE | 20 student minimum

RSVP | (562) 951-1630

OC SEA LIFE STROLL

THURSDAY, JULY 15 | 8:30-9:30 a.m.

View the Aquarium before it opens! Bring your child in a stroller for a close-up look at our exhibits. This class features a personalized Aquarium tour designed with your toddler in mind.

COST | ADULT-CHILD PAIR: \$14/member
\$20/non-member
EXTRA PERSON: \$10/person, includes
Aquarium admission

AGES | toddler, plus adult chaperone

RSVP | (562) 951-1630

YOU CAN HELP CARE FOR THE AQUARIUM ANIMALS



HUGH HYONO

CAN YOU IMAGINE ordering 189 pounds of frozen shrimp, 34 heads of lettuce, and three cases of worms? With more than 11,000 animals to feed, food bills can escalate quickly, which is why the Aquarium has established a new fund specifically to help support the care, feeding, and medical needs of all the fishes, invertebrates, birds, and marine mammals that call the Aquarium home.

The Animal Husbandry Fund will support all of the activities vital to the optimal health of our marine residents, such as clams, mussels, and shrimp to feed the sea otters; an interactive toy for the Giant Pacific Octopus to keep her mind stimulated and engaged; and medical supplies for the annual exams conducted on lorikeets.

Every one of the Aquarium's animals serves as an ambassador for their fellow species that live in the ocean. These animal ambassadors illustrate this major responsibility as they inspire millions of visitors to help protect the ocean. By showcasing the diversity, beauty, and mystery of ocean wildlife, the Aquarium offers visitors the opportunity to peer into the mesmerizing underwater world... one that so few of us will ever see directly.

Supporting the Animal Husbandry Fund is a new way you can partner with the Aquarium in providing the best possible care for the sea otters, sea lions, puffins, and puffers. Foundations and corporations and individuals like you can continue to make a difference in the lives of the many animals that call the Aquarium home.

For more information, please contact the development department at (562) 951-1664 or tdemonte@lbaop.org.

THE ANIMAL HUSBANDRY FUND WILL HELP SUSTAIN SUCH EXPENSES AS:

- 140,000 pounds of frozen fish needed every year
- 10 pounds of shrimp, clams, and squid needed every day to feed just one of our sea otters
- 50 husbandry staff members needed to care for the 11,000 animals (not including the 223 volunteers who donate their time for animal care)
- Medical supplies for the more than 475 medical exams conducted each year

THE TIME FOR ACTION IS NOW!

YOU SHOULD have recently received a letter asking you to "Go Green" by joining our free member online community and choosing to receive paperless membership communications. If you have already done this, we thank you very much. If not, please go to www.aquariumofpacific.org/membersgogreen and register today. When you register, we'll extend your membership benefits by one month. Hurry as this special offer expires May 31, 2010.

We love you, we love our planet. Help us "Go Green" today!

SAVE THE DATE

Ocean Conservation Awards Gala

SATURDAY, JUNE 12, 2010

JOIN THE AQUARIUM of the Pacific in honoring writer and producer Jerry Zucker and producer Janet Zucker for their outstanding achievements in connecting science and the entertainment industry.

COST | \$500 per seat
RSVP | (562) 951-1606 or lglasco@lbaop.org



OCEAN CONSERVATION AWARDS GALA



Dive in!

Let the Aquarium of the Pacific turn your next special event into a night to remember. Available for unique evening events, ranging from a casual reception to a formal sit-down dinner. Shark Lagoon and Cafe Scuba are also available for early evening events.

SAVOR...Long Beach

For more information call 562.951.1663 or visit aquariumofpacific.org.

Aquarium of the Pacific



Top: Jack Marin checks out the garden eels with the magnifying glass. Bottom: Emil Machrone; Elizabeth Blomker; Anne, Jack, and Art Marin; Alan Blomker; Olivia Dobbs; Frances Marin; and Pilar, Isabella, and Steve Dobbs gather in front of the Garden Eels exhibit.

PAINTBRUSHES TO GARDEN EELS

THE CLASSROOM was full of young children eagerly awaiting instructions. Every child had a white smock adorned with seahorses on the front, a handful of paintbrushes, and two blank, white tiles. At the front of the classroom, a professional artist explained the best techniques for painting these tiles. Everyone listened intently because these tiles were destined to be permanent works of art—soon to be displayed at the new Nordstrom's in Cerritos. Sponsored by Nordstrom's, this event was held at the Aquarium.

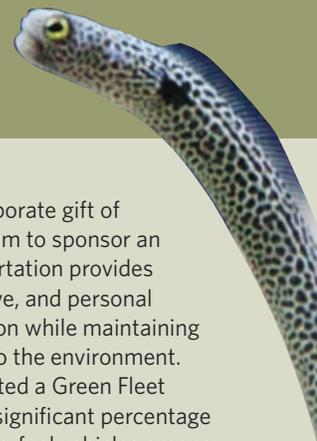
Two parents who accompanied their children to the tile-painting were deeply moved by the children's artwork and especially by their children's obvious love of the ocean. Parents Steve and Pilar Dobbs were so inspired that they sought out a staff member and asked how they might become Pacific Circle members in support of the Aquarium.

While the tile-painting experience created the opportunity to inspire, Steve and Pilar Dobbs had actually been visiting the Aquarium for years. As their love for the Aquarium grew, they decided to take their support to the next level. In conjunction with their partner, Anne Marin, at Secure Transportation, they chose to

make an additional corporate gift of \$10,000 to the Aquarium to sponsor an exhibit. Secure Transportation provides entertainment, executive, and personal assistance transportation while maintaining a strong commitment to the environment. The company has initiated a Green Fleet Project that includes a significant percentage of hybrid and alternative-fuel vehicles among its transportation options.

Anne Marin and Steve and Pilar Dobbs toured the Aquarium to select their exhibit and chose the Garden Eels in the Gulf of California gallery. Not only do their children love the garden eels that peek out from their burrows and look like sea grass, but they also loved how the magnifying glass encouraged children to take a closer look. Anne was delighted with their exhibit choice and said, "These garden eels are marvelous creatures, and we are proud to sponsor an exhibit that encourages learning and science."

Anne Marin and Steve and Pilar Dobbs learned firsthand that there are many ways to support the Aquarium. For more information on Pacific Circle membership, exhibit sponsorship, or other ways that you can support our animal ambassadors, please call (562) 951-1664 or e-mail tdeMonte@lbaop.org.



YELLOW SUBMARINE DONATED BY HONDA



YOU MAY HAVE SPOTTED the Aquarium's vibrant yellow submarine swimming through Southern California freeways, and this is thanks to the American Honda Motor Company. For years the Aquarium's founding sponsor Honda has given the Aquarium full use of a Honda Civic GX Natural Gas Vehicle and an Odyssey minivan wrapped in submarine graphics.

Both vehicles are used often by Aquarium staff for outreach activities, transporting exotic animals, and other mission-related expeditions. While the vehicles have previously been made available through a no-cost lease, this year Honda has donated both vehicles outright to the Aquarium.

"The Aquarium of the Pacific has been extremely appreciative of Honda's ongoing partnership, and this donation is just one more way that Honda has shown its continued commitment to the Aquarium," said Aquarium Vice President of Development Nancy Weintraub.

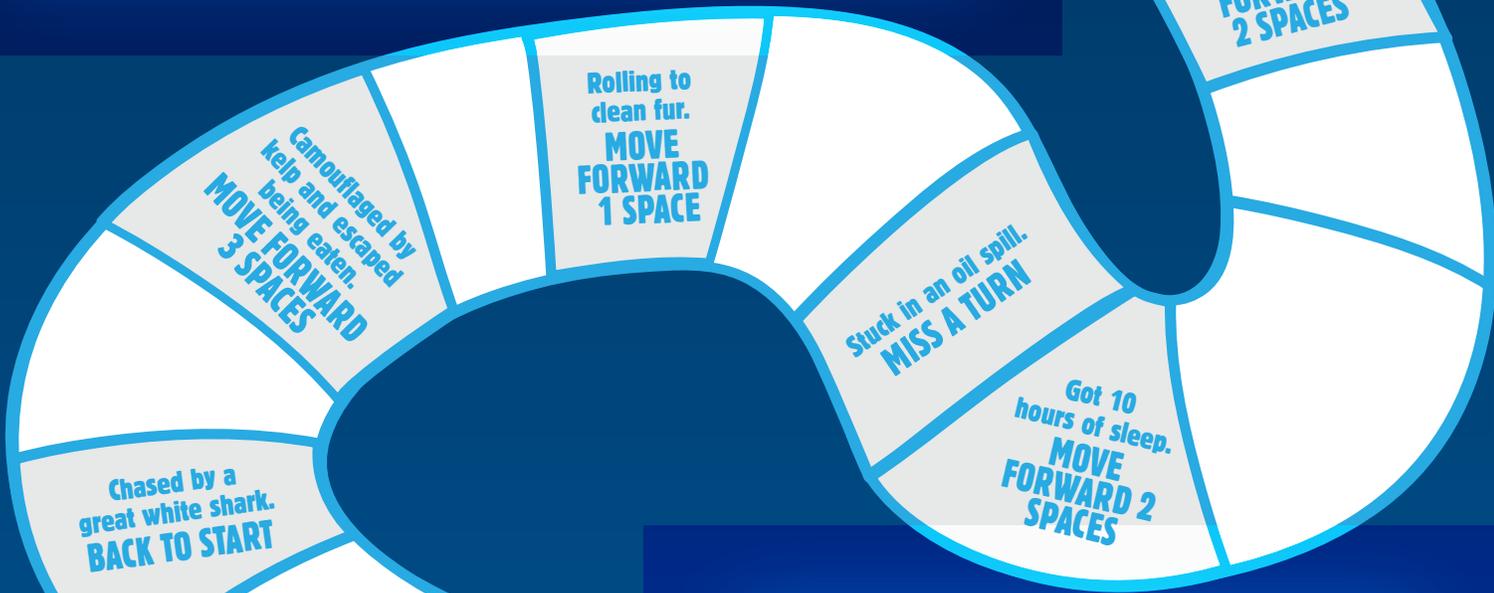
Otter Obstacles!

SEA OTTERS ARE A KEYSTONE SPECIES, MEANING THEY PROFOUNDLY AFFECT THEIR HABITAT. They eat and keep sea urchins in check. Sea urchins eat kelp, so without the sea otter, urchins would eat all of the kelp, destroying the homes of many other animals. Sea otters play an important role in the ocean.

Orcas are the sea otter's main ocean predator, and sea otters also suffer fatal bites from great white sharks. Otter babies are sometimes eaten by eagles, raccoons,

coyotes, and foxes on land. Sea otters also have to avoid human-related obstacles to survive. Flushing medicines down the toilet and drains can harm sea otters. Oil can damage their fur and swimming abilities.

Let's see how you do in the life of an otter! Play the game Otter Obstacles to see just how far along the path of life you can get as an otter. Your goal is to survive long enough to have a baby otter, so the otter population grows.



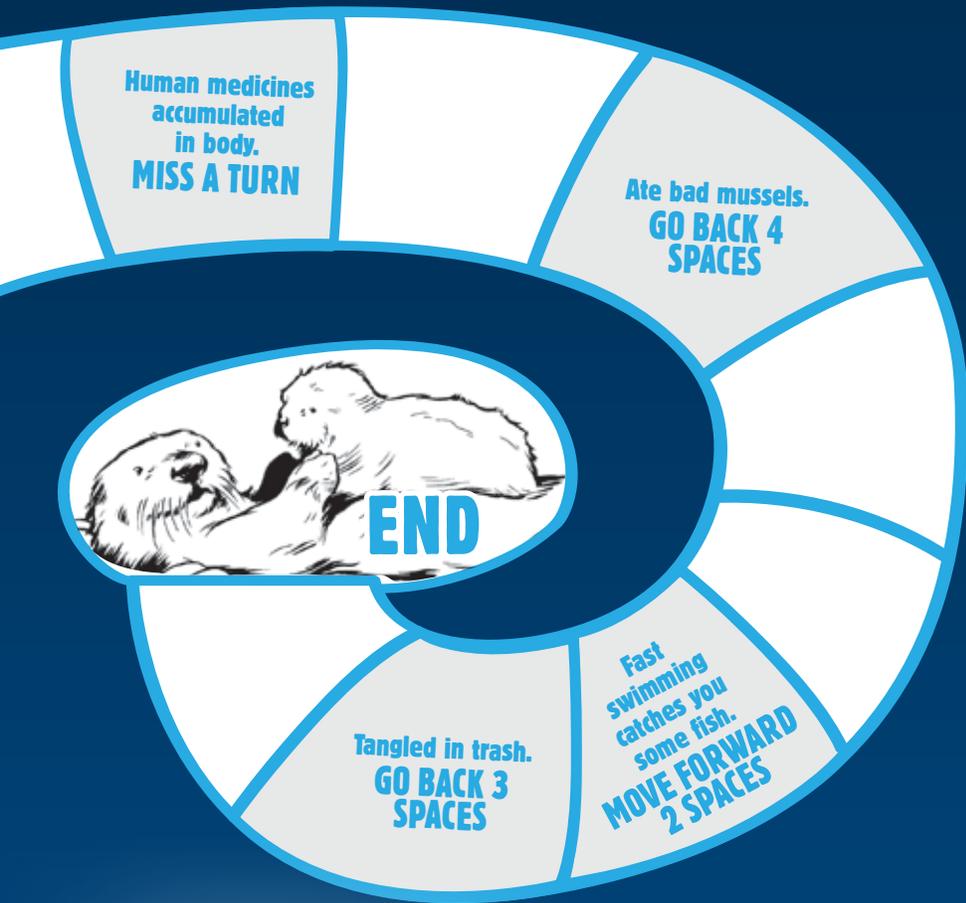
OTTER PLAYING PIECE

MATERIALS:

- Pencil
- Paper
- Otter Playing Piece (left)
- Scissors
- 4 Paper Clips
- Board Game (above)
- 1 Die (Dice) (borrow from a game at home)

DIRECTIONS:

1. Trace the otter player piece four times on paper. Cut out the otter player pieces.
2. Paper clip the bottom of each player piece. Bend the piece, so that the player pieces stand up. Place all of the otter player pieces on Start of the game board.
3. Two to four people can play.
4. The person who rolls the highest number with the die goes first.
5. Take turns rolling to move on the board. Follow the instructions on the board.
6. The first person to get to the baby otter wins as the first to survive and help the otter population grow!



Fishing for KNOWLEDGE!

1. To camouflage their babies and stop them from floating away, sea otters wrap their babies in _ _ _ _ _.
2. Sea otters are marine mammals that have a thick layer of _ _ _ _ _ instead of blubber to keep them warm.
3. Sea otters typically eat _ _ _ _ _ , which are high in energy and healthiest for them to eat.

Last Issue's Questions and Answers:

1. Reinforcing an animal's behavior with food or other rewards is called **positive** reinforcement.
2. Animals are asked to do different activities or behaviors for mental and physical **health**.
3. It is important and healthy for an animal to **learn** just as you do at school.

SOUTHERN SEA OTTER
Enhydra lutris nereis

NORTHERN PACIFIC GALLERY

RED SEA URCHIN
Strongylocentrotus franciscanus

SOUTHERN CALIFORNIA TERRACE

PACIFIC SEAHORSE
Hippocampus ingens

SO. CALIFORNIA/BAJA GALLERY

SOUTHERN SEA OTTER

Enhydra lutris nereis



PHYSICAL CHARACTERISTICS

Sea otters have a very thick layer of fur instead of blubber to keep them warm. Their fur is very dense at about one million hairs per square inch. They have whiskers to help find food. Their front paws are clawed with tough padding, and their feet are webbed for swimming. They reach 4 to 5 ft. (1.2-1.5 m) in length and weigh 30-99 lbs. (14-45 kg).

HABITAT

Found from Northern Japan to Alaska and Northern to Central California, sea otters are found in surface waters to 75 ft. (0-23 m) down in kelp forests, barrier reefs, and rocky habitats.

DIET

Sea otters prefer sea urchins for their high energy and healthiness, but will eat many foods, including snails, clams, abalone, mussels, crab, fish, and more.

FUN FACT

Sea otters are the only marine mammal without blubber.

RED SEA URCHIN

Strongylocentrotus franciscanus



PHYSICAL CHARACTERISTICS

Sea urchins are a type of echinoderm, which means spiny-skinned. They are a spherical animal with an exoskeleton, an outer skeleton, covered in dark red spines up to 3 in. (8 cm) long. They have many tiny tube feet with suckers that help them move, breathe, and grab their food. All echinoderms—sea urchins, sea stars, sand dollars, and sea cucumbers—have no brain or heart.

HABITAT

Their habitat ranges from Alaska to Baja California, Mexico.

DIET

On their underside, sea urchins have a mouth with special jaws that scrape kelp, seaweed, and algae off of rocks.

FUN FACT

Some red sea urchins can live for more than 100 years.

PACIFIC SEAHORSE

Hippocampus ingens



PHYSICAL CHARACTERISTICS

The Pacific seahorse is a fish with a backbone, fins, gills, and modified scales. It is one of the largest seahorses, reaching a maximum length of 1 ft. (30 cm). They are a mix of red, gray, yellow, and gold and sometimes have white stripes running down the body. These seahorses have a distinctive, long, cheek spine and a spine just above each eye.

HABITAT

They live in offshore waters from San Diego, California to Peru, including the Galapagos Islands. They typically camouflage with temperate soft corals.

DIET

They feed on mysids, small shrimp-like animals, and plankton, microscopic plants and animals.

FUN FACT

Male seahorses give birth to the babies.

Member Specials

Earn a free entrée at Café Scuba

The Aquarium has a new member's exclusive benefit:

THE CAFÉ SCUBA FREQUENT DINER CARD!



EACH TIME YOU PURCHASE an entrée at Café Scuba, your frequent diner card will be punched. Your seventh entrée will be free. Stop by the Information Desk in the Great Hall during normal Aquarium hours to pick up your Frequent Diner Card.

The Frequent Diner Card can be used anytime during Café Scuba's normal operating hours and is valid on entrée purchases only.

Start earning your way to a free entrée in Café Scuba today.

SAVE THE DATE

SEA FARE

Saturday, October 16, 2010

MARK YOUR CALENDARS!
The Aquarium's popular Sea Fare event will be held on **Saturday, October 16, 2010.**

The evening includes culinary delights, hosted bars, dancing, silent and live auctions, a \$500 cash raffle, and a "Go Fish" opportunity game where you can win gift certificates, gift baskets, hotel stays, tickets to performances, and more.

COST | \$100 per person (\$50 is tax deductible)
INFO | www.aquariumofpacific.org/seafare or call (562) 437-FISH (3474).

All proceeds support our education and conservation initiatives.



AQUARIUM OF THE PACIFIC

SAVE 20% this summer on all merchandise!

Present your membership card along with this coupon to receive an additional 10% discount in conjunction with your member discount, for a total of 20% off merchandise in Pacific Collections and the Shark Shack.

This coupon is valid through 09/30/10 inside Pacific Collections and the Shark Shack. Valid as a one-time offer. Cannot be combined with any other offer. No cash value. Restrictions may apply.



N-0910-A

BP DONATION TRANSFORMS SEA OTTER EXHIBIT

Aquarium of the Pacific creates an immersive environment thanks to BP's \$1 million grant.

“COLLABORATION is required. Climate change is a global issue that requires all countries and all sectors of industry and society at large to play their part in addressing it.” This sentiment expressed by BP is one with which the Aquarium of the Pacific whole-heartedly agrees. “The Aquarium has been very fortunate to be a partner with BP in addressing important environmental issues since the Aquarium’s opening in 1998,” said Aquarium President and CEO Jerry R. Schubel. BP was a founding \$1 million sponsor of the Aquarium. It has donated over \$65,000 in support of the Aquarium’s annual Conservation Awards Gala; over \$100,000 toward our education and scholarship efforts; and most recently, a \$1 million grant to completely renovate our sea otter exhibit.

This latest gift is allowing the Aquarium to transform the sea otter exhibit into one that is much more immersive for guests and one that is truly able to tell the story of the sea otter, its migration patterns, and the threats to its existence.

The sea otter is the signature animal for California’s animal conservation programs and is a threatened species. As a public aquarium committed to educating the public on key issues surrounding the state and the Pacific Ocean, the Aquarium has a responsibility to help people become invested in the future of

the southern sea otter. The southern sea otter lives along the 220 miles of the California coastline. Throughout the 20th century the entire population has battled constant threats, including parasites, pollution, and insufficient and contaminated food supplies. The sea otter is a keystone species that is critical to the ecosystem along the California coast and a key link in habitat protection that involves kelp forests, sea urchins, fish, and invertebrates sharing a delicate balance.

This new sea otter exhibit will be one of a few of its kind across the country. The exhibit will play a critical role in making these animals accessible to the public and telling one of the most important conservation and survival stories today. “The story of the southern sea otter is both compelling and powerful. BP is proud to help share that story with the people of California,” said Matt Rezvani, general manager west coast external affairs for BP.

“The Aquarium of the Pacific is grateful to BP for giving us the opportunity to share a powerful story of the southern sea otter with our community,” said Schubel.



“This new exhibit will help promote sustainability and education – key values that are a cornerstone of BP’s environmental platform,” BP President and Chairman Lamar McKay said.



FUNDRAISING HIGHLIGHTS

The Aquarium of the Pacific relies on support from individuals, corporations, foundations, and government partners to support its mission with contributions to the operating budget or to a diverse range of projects.

■ Pacific Life Foundation Supports Seafood for the Future

In November Pacific Life Foundation made its second payment of \$147,000 on a three-year commitment as founding sponsor and supporter of the Seafood for the Future (SFF) program. SFF has partnered with 50 restaurants, distributors, and community organizations in Southern California, educating them about sustainable seafood sourcing and creating market incentives for participation in the program.

■ The Ralph M. Parsons Foundation Supports Underserved Students

The Aquarium Scholarship Fund will bring more than 4,000 Title 1 students to the Aquarium this year as a result of the \$100,000 award from The Ralph M. Parsons Foundation. Disadvantaged youth from throughout Los Angeles County will learn about science and the environment through hands-on activities and up-close encounters with the marine life throughout the Aquarium's 19 major habitats and 32 smaller exhibits.

■ Rose Hills Foundation Gives to Education Fund

The Aquarium received a \$50,000 grant from Rose Hills Foundation in support of the Education Fund. This fund supports the educational programs for learners of all ages. It served more than 210,000 students, teachers, and adults in 2009 onsite and in the community through the Aquarium on Wheels, our mobile tide pool outreach vehicle.

■ Target Supports Scholarship Fund

The Aquarium began a new partnership with Target, having received a \$50,000 grant to provide complimentary admission and a standards-based classroom or theater program to underserved students throughout Greater Los Angeles. With schools facing ever-increasing budget cuts, support for informal science education programs is now more critical than ever.

■ The Donald Slavik Family Foundation Provides Grant to MCRI

A \$33,500 grant was awarded by the Donald Slavik Family Foundation to the Aquarium's Marine Conservation Research Institute (MCRI). The Slavik Foundation will be the lead sponsor for a lecture series that will inform the general public about one of the most critical environmental issues facing our planet, global climate change. This series will extend the intellectual reach beyond the boundaries of the Aquarium's physical campus to the local community—an important part of MCRI's mission.

■ LeBurta Atherton Foundation Supports Local Education Partnership

Long-time supporters of the Aquarium's education programs, the LeBurta Atherton Foundation awarded a grant of \$25,000 in December, providing critical support for the Aquarium's new RISEabove (Raising the Impact of Science Education) program. RISEabove will enhance and strengthen science education at two underserved schools in Long Beach, Cesar Chavez Elementary School and Washington Middle School.

■ Carson Foundation Provides Funds to Education Programs

The John W. Carson Foundation, Inc. granted \$25,000 to the Aquarium Education Fund as well as the Jeanne M. Brodeur Scholarship Fund. These funds will help support the entire range of educational programs offered to students, teachers, and community members, as well as supplement the scholarship endowment fund, which will be used to bring underserved students to the Aquarium and carry on Brodeur's legacy of philanthropy.

■ Betty White Ludden Donates to the Molina Animal Care Center

Betty White Ludden, a well-known advocate of animal health, provided a second gift of \$25,000 for the Aquarium's new Molina Animal Care Center. The Center opens in May, and will give visitors an up-close look at the world of aquatic veterinary medicine.

AQUARIUM ACCOLADES

The Aquarium honors Ruben Hernandez and Charmaine Jefferson for outstanding community service and actor Edward James Olmos for his role in ocean conservation education.



Ruben Hernandez | Heritage Award

Ruben Hernandez was presented a Heritage Award at our Festival of Human Abilities. Hernandez was blinded by a random act of violence as a young adult. Since then he has helped others with disabilities and disadvantages to find hope and rebuild their lives. Hernandez studied at The Braille Institute in Los Angeles and later graduated summa cum laude from UCLA. Hernandez is president and founder of Unification of Disabled Latin Americans (UDLA). Celebrating its 35th anniversary, UDLA is a non-profit organization by and for individuals who have disabilities. Its main goal is to improve the quality of life for these individuals and help them to recover their self-esteem and become productive members of society. Some of the services include counseling, support groups, a theater group, sports, donations, graffiti cleanups, peaceful marches, speaker forums, and more. Through his efforts, Hernandez has inspired and touched the lives of thousands.



Charmaine Jefferson | Heritage Award

A tireless advocate for the arts, Charmaine Jefferson is executive director of the California African American Museum. She started her career in the arts as a professional dancer, and then went on to become a senior dance program specialist for the National Endowment for the Arts. She served as acting commissioner and deputy commissioner with the New York City Department of Cultural Affairs and as executive director of the Dance Theatre of Harlem. Jefferson devotes a significant amount of volunteer time to supporting the arts, education, and community service. She is a trustee for the California Institute for the Arts, board director for the county-wide advocacy organization Arts for L.A., and is a gubernatorial appointee to the California Arts Council. Jefferson is also a member of the International Association of Blacks in Dance. Jefferson has brought the arts into the lives of thousands. She was presented a Heritage Award at our African-American Festival.

Pictured: Festival Consultant Naomi Rainey, Aquarium President and CEO Jerry R. Schubel, and Honoree Charmaine Jefferson.



Edward James Olmos | Heritage Award

Born in East Los Angeles, Edward James Olmos is an actor, producer, director, and recognized humanitarian. The Emmy, Tony, and Golden Globe Award-winning actor may best be known for such films as *Stand and Deliver* and *Mi Familia* and the television series *Miami Vice* and *Battlestar Galactica*. An avid supporter of many environmental issues, Olmos has long been involved in social activism. After the 1992 Los Angeles riots, he worked to get communities rebuilt. He is involved with the nonprofit Sexto Sol Center, which serves impoverished communities in Mexico and Guatemala. He is also co-founder of the nonprofit Latino Literacy Now. He recently joined forces with the NOAA Office of National Marine Sanctuaries and the California Natural Resources Agency on Thank You Ocean, becoming the face of the campaign and empowering residents to help protect the Pacific Ocean. He was presented a Heritage Award at the Aquarium's Noche de Estrellas.

Pictured: Sarah Marquis, NOAA Office of National Marine Sanctuaries; Amy Vierra, California Natural Resources Agency; Heritage Award honoree Edward James Olmos; and J. Mario Molina, Aquarium of the Pacific board chairman.

WES MARTIN, NOAA OFFICE OF NATIONAL MARINE SANCTUARIES

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You Asked, and We Listened!

The Aquarium of the Pacific is pleased to introduce our brand new Grandparents Annual Membership Pass.

The Grandparent Membership includes (1) or (2) adults and any (4) of your grandchildren ages 3-17 on any day for only \$110. Call 562-437-FISH (3474) today to upgrade your membership, and enjoy a full year of fun with your grandchildren at the Aquarium of the Pacific.



STREET CLEANUP COLLECTS 4,400 LBS. OF TRASH



MEETING at Cesar Chavez Park, 250 volunteers fanned out into the surrounding neighborhood and collected 995 pounds trash. Many families from Cesar Chavez Elementary School joined the effort. Volunteers from the Department of Public Works collected an additional

3,405 pounds of trash that included large items, such as mattresses and couches.

The Aquarium has its cleanup in an urban area to help the public see the connection between the trash on our streets and in the ocean. The trash that ends up on our streets is washed into storm drains and eventually winds up in the ocean, where it pollutes the environment and can harm marine life. Even trash that is as far away as the mountains can end up in the ocean. Trash has a devastating effect on marine life, and deadly evidence can be found in the stomachs of many animals, from birds to whales. Marine debris is one of the most preventable environmental threats, and a clean street is the first step toward a cleaner and safer ocean.



NEW WAYS TO RECYCLE

THANKS to the American Chemistry Council (ACC), Aquarium of the Pacific visitors have more recycling opportunities. In December 2009 the ACC donated eight recycling bins that are decorated with images of marine life, reminding visitors that recycling helps keep our ocean and beaches clean. The donation was part of a statewide recycling campaign called "Plastics. Too Valuable to Waste. Recycle."

"The ACC's recycling bins stand out from our others by providing us with another important teaching tool. The ocean images depicted on them allow us to remind our visitors how this everyday act can help protect ocean life," said Dr. James B. Wood, Aquarium of the Pacific director of education.

Pictured: Broc Coward, chief of staff for Long Beach City Councilwoman Suja Lowenthal; Susana Gonzalez, chief of staff for Long Beach City Councilman Robert Garcia; Barbara Long, vice president of government relations and special projects for the Aquarium of the Pacific; Long Beach City Councilwoman Gerrie Schipske; State Senator Alan Lowenthal; American Chemistry Council Western Regional Manager Sherri McCarthy; and Dr. James Wood, education director for Aquarium of the Pacific.





SAVING SEA OTTERS

There are things each of us can do to help sea otters and coastal ecosystems.

SEA OTTERS HAVE FACED MANY THREATS over the years. Hunting nearly wiped out the entire population by the early 1900s. Now a protected species, California's sea otters have grown from a group of 50 in 1938 to about 2,800 today. But they continue to face many serious risks, and the help of a caring public is needed to ensure that the species survives and thrives.

Beyond their intrinsic value as a species, sea otters play a critical role in maintaining the kelp forest ecosystem. They are the main predators of kelp-eating species such as sea urchins and abalone. Without sea otters, kelp forests are greatly reduced, resulting in the loss of habitat for many fish species. The coastline would also lose its buffer against storms.

According to Dr. Tim Tinker, a research wildlife biologist with the Western Ecological Research Center of the U.S. Geological Survey and an adjunct professor in the department of ecology and evolutionary biology at the University of California Santa Cruz, one of the greatest threats to sea otters in California is land-based pollution in their marine environment. There are many things each of us can do to help sea otters and the ocean.

Oil has the potential to seriously harm or kill sea otters. But more oil enters the ocean from car leaks than from large tanker spills. Help keep oil or anti-freeze out of storm drains that lead to the ocean by not letting it spill on the ground. Recycle used motor oil. Cut down

on oil consumption and oil-based products. And use public transportation, walk, bike, or join a carpool.

Household chemicals and pet waste are some of the other pollutants that are harmful to sea otters and other marine life. Take a second look at everything you put down your drain since most of this waste makes its way back to rivers, streams, and the ocean. Dispose of hazardous waste properly.

Scientists are studying a possible link between toxoplasmosis, a common disease that is carried by both wild and domestic cats, and sea otter deaths. Cats can carry the eggs of the parasite that causes the disease in their feces, and toxoplasmosis can be fatal to sea otters. Sewage treatment plants do not kill these eggs. Clean up after your pets and dispose of feces in trash cans so it cannot contaminate coastal waters.

Wetlands act as filters for any water that runs off the land, absorbing pesticides, fertilizers, and disease-causing parasites. Improving and restoring freshwater wetlands near the ocean would help keep many parasites and pollutants from reaching the ocean. Fertilizers that make their way into the ocean can cause algal blooms, many of which are toxic to sea otters and other marine species. Support legislation and community efforts to improve wetlands.

You Can Help Today!

WHAT WE DO ON LAND affects the health of the ocean and its inhabitants. When we look out at the ocean, we cannot see most of these problems, but they are there. The best way to clean up the ocean is to clean up the land. You can help by reducing, reusing, and recycling and taking care to properly dispose of chemicals and wastes. You can also help by supporting legislation protecting sea otter habitats, kelp forests, and marine protected areas.



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Look for your entry form online or in the mail in early May. Or you can call (562) 437-3474 to purchase your tickets starting May 1, 2010. All entries must be received at the Aquarium by 6:00 p.m. on September 6, 2010. All prizes are generously donated by American Honda Motor Co. Inc.