

# PACIFIC CURRENTS

MEMBER MAGAZINE OF THE AQUARIUM OF THE PACIFIC

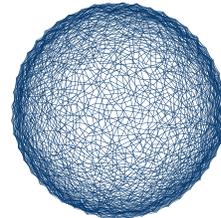


## SEAFOOD FOR THE FUTURE

The Aquarium Introduces its  
**Sustainable Seafood Program**



Attendees at an Earth Day event at Golden Gate Park become part of the 350 action.



COP15  
COPENHAGEN  
UN CLIMATE CHANGE CONFERENCE 2009

## 350 AND COP15

### GLOBAL CLIMATE CHANGE IS SCARY... AND IMPORTANT

The Aquarium joins the efforts of 350.org on Saturday, October 24—International Climate Action Day—by spreading the message of lowering carbon emissions at its upcoming Scarium Halloween event. While the Aquarium will be telling children that goblins want to be green too, the hope is that adults will have the opportunity to learn more about the global concern about rising carbon dioxide (CO<sub>2</sub>) levels.

**T**HE NUMBER 350 refers to the parts per million (ppm) of carbon dioxide that many scientists and climate experts are saying would be the most our atmosphere could safely contain. The planet already has almost 390 ppm CO<sub>2</sub> in its atmosphere, and this number is rising by about two parts per million every year. Accelerating Arctic warming, ocean acidification, and other early climate impacts have convinced experts that if we do not reduce our CO<sub>2</sub> output, we risk reaching tipping points such as the melting of the Greenland ice sheet and major methane releases from increased permafrost melt.

Since 1992 the United Nations has hosted an annual conference to discuss what to do about the global threat of climate change. The 2009 meeting will be in Copenhagen, Denmark on December 7-18. The Copenhagen Climate Conference, also referred to as COP15, has the ambitious objective of creating an international agreement to limit human-induced emissions of greenhouse gasses. Delegates, non-governmental organizations, and businesses from every nation will meet to finalize a new global climate change agreement.

The Copenhagen agreement will replace the Kyoto Protocol, which the United States did not ratify and which expires in 2012. The COP15 conference will be an attempt to change the engine that drives human society from fossil fuels to renewable electricity. Our national policy is known as a greenhouse gas cap-and-trade system with critical complementary measures to help address climate change and build a clean energy economy. By creating a market and a price for emission

reductions, cap-and-trade offers an environmentally effective and economically efficient response to climate change. But some argue that cap-and-trade is far from being fair and effective. A carbon tax is another option. Various possibilities will be discussed at COP15 with the hope that any number of solutions could come together globally to reduce the emissions in the planet's atmosphere.

Climate change is going to continue to be an issue that we all must learn about and get involved in. It is a challenge that requires action sooner rather than later. Changes in precipitation, drought, heat waves, and sea-level rise will continue and have important consequences for us all. The Aquarium is invested in being green in its business practices and educating our guests about this issue and stewardship for the ocean planet.

The Aquarium will participate in the 350 event on Saturday, October 24 by incorporating the message that "Climate Change is Scary Too" in the Scarium of the Pacific Halloween celebration. In addition to the traditional costume contests, there will be prizes for the best costumes using recycled materials and the best portrayal of climate change. A table will be staffed by members of the Aquarium's Green Team so that people can sign up to pledge to lower their carbon footprint. Please join us for a fun event that might provide an opportunity to delve a little deeper into a somewhat ghoulish topic.

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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](mailto: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.

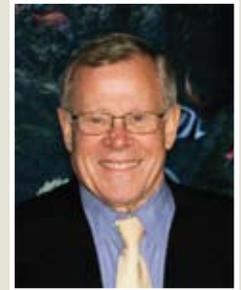


Aquarium Founding Sponsor

## Letter from the CEO

Dear Members,

**I**T IS MY PLEASURE TO present to you the winter issue of *Pacific Currents*. It has been a busy summer and fall with the debut of *Shark Summer* and our continuing shark and ray program. It was gratifying to learn that we were selected as the best tourist spot in Greater Los Angeles in Nickelodeon's Parents' Picks Awards in August. Thanks to all who voted for us.



The Aquarium has explored ways of providing consumers with information about the seafood they purchase. To fulfill this need we created the Seafood for the Future program. It evolved from the Aquarium's Sustainable Seafood Forum, which was founded jointly by the Aquarium of the Pacific and King's Seafood Company.

Seafood for the Future is committed to ensuring that future generations can continue to enjoy delicious and healthful seafood by selecting seafood from well-managed, sustainable wild stocks and from sustainable aquaculture farms. The program identifies specific sustainable fish that are featured on menus of participating restaurants and on display cases of participating seafood markets and supermarkets. In addition to identifying sustainable choices, the program rewards those who select these items with tickets to the Aquarium. I encourage you to learn more about this important new program by reading the feature article in this magazine.

This year's Ocean Conservation Awards Gala was a big success. I want to thank the co-chairs, Aquarium Board members Steve Conley and Steve Mayer, for their efforts and the entire board of directors for their leadership and dedication. The Aquarium depends on its many supporters to provide an engaging visitor experience and outstanding ocean education programs. The Trustees of the Pacific are one such group of advocates, and are listed on page 26. Furthermore, we take our mission into the community through a number of programs to reach those who are unable to come to the Aquarium. On behalf of all of us at the Aquarium, we thank you for your continued support.

Sincerely,

Jerry R. Schubel



## TIGER SHARK UPDATE

*Aquarium staff welcomed a tiger shark, providing her with the best accommodations possible. We have learned a lot from her in the months she has been with us.*



*A five-foot young female tiger shark was cared for at the Aquarium of the Pacific. Unfortunately, her health has declined and we hope to relocate her. She cannot be released, as she is a tropical species and needs warmer water than that off our coast.*

**T**he tiger shark came from Taiwan, where her mother had been caught by a fisherman.

She was born in captivity and was cared for until she came to us. When the Aquarium was contacted, staff members agreed to provide her a home even though it would be challenging to care for her since little is known about caring for this species in aquariums. In late February the baby tiger shark travelled from Taiwan to LAX by plane in a portable holding system. From the airport, a truck carried her to the Aquarium. In late June, she was moved into the Aquarium's Shark Lagoon exhibit.

Aquarium experts have kept a close eye on her to keep her as comfortable as possible. To reduce stress of any kind, staff modified the exhibit to enable her to swim more comfortably. After trying different methods, Aquarium biologists developed pen netting that helps her to navigate better. They've also tried close to 30 different food items to find out what she prefers to eat, which is a variety of fish and shrimp. In September it was decided she needed a larger space, and the Aquarium began looking for a new home for the shark.

In the wild, juvenile tiger sharks eat a variety of fish as well as sea birds. They are one of the most diverse eaters and will eat just about anything. Unfortunately, it is not uncommon to find undigested trash in the stomach of a tiger shark, including cans and plastic bottles. Recycling and properly disposing of trash to help prevent it from entering the ocean is one way to help these sharks.

Tiger sharks (*Galeocerdo cuvier*) are often feared as the second-most dangerous shark in the ocean. These sharks can grow up to 14 feet and weigh over 1,400 pounds. Tiger sharks are often labeled as man-eaters. "By having a tiger shark here, we wanted to inspire visitors to learn the truth about these animals and to get involved in shark conservation while we further scientific information about their behavior," said Perry Hampton, Aquarium of the Pacific director of husbandry.

A truly serious problem facing tiger sharks is that they have slow repopulation rates, yet they are heavily harvested for their fins, meat, and liver. "It is likely that the Aquarium's baby tiger shark could have been part of the statistic of the 100 million sharks killed each year for human consumption instead she served as an ambassador to inspire people to protect tiger sharks in the wild," said Hampton.

Everyday ways to help save tiger sharks include avoiding the consumption of shark fins and shark meat, not buying vitamins containing shark oil and other shark byproducts, and not purchasing lotions, makeup, and topical analgesics containing squalene derived from shark oil. "We need to start viewing sharks like lions and bears, animals we need to respect but also protect. By bringing people face-to-face with a tiger shark, we wished to instill a sense of wonder, respect, and stewardship for these tigers of the sea that are in need of our help," said Sandy Trautwein, Aquarium of the Pacific curator of fishes and invertebrates.

**Give the gift that will keep giving long after the holidays are over.**



Adopt an Animal for as little as \$40 and receive:

- \* personalized certificate of adoption
- \* beautiful keepsake color photo
- \* fact sheet about your sponsored species!

Call (562) 437-3474 or visit [www.aquariumofpacific.org/adopt](http://www.aquariumofpacific.org/adopt) to join our Adopt an Animal Program today.



## PAINTING PINNIPEDS!

### Aquarium Sea Lions Create Works of Art

The Aquarium's California sea lions have become quite artistic in 2009. Parker, Milo, and Harpo have started painting, and Miller and Troy are next on the list to don their berets. Parker, Milo, and Harpo were quick to pick up the tools of the trade and begin brushing the canvas with colors. Each has their own distinct style. Parker is deliberate, much like Picasso; Milo is a pinniped version of Pollock with his emotion infused expression; and Harpo is somewhere in between. Since sea lions do not have a great ability to see color, the trainers help choose the shade of non-toxic paint.

The first-ever publicly available paintings by our sea lions will be up for auction at our upcoming Sea Fare fundraiser on Saturday, October 17. See the back cover for more information on Sea Fare.

# Ensuring Seafood for the Future

The Aquarium of the Pacific's new seafood program, *Seafood for the Future*, is working to build a community of people who want to do the right thing.

By Tricia Bennett

The current demand for seafood outpaces supply, and the gap is widening because of poorly managed fisheries and wastefulness. Two-thirds of all fishing stocks are fished at or above sustainable levels. In Greater Los Angeles, seafood consumption per capita is twice the national average. It is predicted that the entire wild seafood industry could collapse in 50 years unless alternative solutions are sought.

**D**EMAND for seafood will continue to increase as the world population grows. In the United States, seafood consumption is rising as people learn of the health benefits associated with eating fish. While demand increases, the availability of wild seafood struggles to stay at current levels and may even decline further.

In response to this growing crisis, the Aquarium of the Pacific created the *Seafood for the Future* program to define the sustainable seafood movement by working with chefs, restaurants, fisheries scientists, retailers, and food lovers. The goal is to enact real change in the seafood industry by providing incentives that will influence the supply and demand for

seafood in Southern California. Starting in the ocean and ending on your plate, *Seafood for the Future* shows consumers how to make the right choice and make a difference.

Launched publicly in September, the *Seafood for the Future* program is funded by a grant from the Pacific Life Foundation. To oversee the program, the Aquarium hired two staff members: Andrew Gruel, a chef with a background in sustainable cooking and restaurant marketing, and Dave Anderson, a scientist with a background in aquaculture and marine biology.



“ When it comes to sustainability, there are a lot of questions ... We do the legwork and the research, and all consumers have to do is look for the logo. ”  
—Dave Anderson



## How It Works

**A sustainable system is defined as one that satisfies our current needs without compromising the ability to meet the needs of future generations.** This means fishing and aquaculture practices must not harm the environment or its living resources. There are many opportunities to build on local, national, and international seafood markets that are from sustainable sources. *Seafood for the Future* works with restaurants and suppliers to ensure that seafood items are safe for consumers and the ocean. The program uses data from NOAA's National Fisheries Service, state agencies, and other sources to identify sustainable and healthy seafood choices.

*Seafood for the Future* recruits restaurants to place sustainable seafood choices on their menus that are endorsed by Aquarium staff and labeled with the *Seafood for the Future* logo. This enables consumers to make sustainable choices easily by selecting those items with our logo.

“When it comes to sustainability, there are a lot of issues and a lot of questions. You can't put the onus on the consumer,” says Anderson. “We do the legwork and the research, and all consumers have to do is look for the logo.”

The principles of sustainability under the *Seafood for the Future* program are:

- the healthfulness, safety, and quality of each product must be controlled and documented
- production is managed under a plan of best current practices and compliant with applicable laws
- plans are in place to mitigate the effects of waste, bycatch, and habitat loss
- products support local communities and are sensitive to traditional and local cultural values

The first of its kind in Southern California, the program features a complete consumer-friendly website with links to participating restaurants, recipes, news updates, and more. The *Seafood for the Future* blog provides the inside scoop on delicious seafood, what it takes to change market demand, and how people perceive the sustainability movement.

*Seafood for the Future* encourages people to eat more of the right kinds of seafood and promotes the businesses that make these choices available. As an incentive for consumers, free coupons to the Aquarium of the Pacific are distributed whenever select seafood items are purchased at restaurants displaying the program's logo. Patrons who purchase a sustainable option receive a coupon that is good for one free entry to the Aquarium as well as a discount for up to four companions.

Restaurants and markets that participate in the program are promoted through the Aquarium. On the program's website, consumers will be able to browse culinary events and make reservations at partner restaurants. Partner restaurants benefit from more than just an affiliation with the Aquarium—they form a community that inspires an appreciation for great seafood cuisine, environmental responsibility, and healthy living. “There are incentives for everyone involved,” says Gruel.

Restaurants that are already participating include Parker's Lighthouse, Nino's, and McKenna's on the Bay in Long Beach; Nook Bistro in West L.A.; and Sea Rocket Bistro in San Diego. The program will soon include restaurants from Palm Springs, Santa Barbara, and the San Fernando Valley.



### Partner Restaurants

#### Long Beach

Café Scuba,  
Aquarium of the Pacific  
Gladstone's Restaurant  
McKenna's on the Bay  
Nino's Restaurant  
Parker's Lighthouse  
Primal Alchemy  
Queen Mary

#### Seal Beach

Walt's Wharf

#### Los Angeles

Eco Caters  
Lucques Restaurant  
Nook Bistro  
Providence Restaurant

#### San Diego

Sea Rocket Bistro

**Seafood for the Future supports fish farming, domestically and abroad, wherever sustainable aquaculture is practiced. Good aquaculture can produce high quality seafood without adverse environmental impacts.**

## **A Holistic Approach**

**Seafood for the Future is different from other seafood advisory programs.** First and foremost, the program encourages people to eat more seafood. Eating seafood is one of the best ways to obtain omega-3 fatty acids, which keep your heart and mind healthy. The program also looks at the source of the seafood instead of just a specific species. Sometimes the sustainability of a fish depends on when, where, and how it was harvested. The program focuses on finding the best sources for recommended species.

The program fosters relationships among restaurants, fish suppliers, and consumers in Southern California. Having a logo next to a menu item or displayed in a restaurant creates a network of trust that extends from the source all the way to your plate.

*Seafood for the Future* also features a culinary component. Anderson and Gruel cook at events and festivals throughout Southern California. The website features a cuisine segment for home cooks and consumers. Anderson and Gruel will also do cooking demonstrations at Whole Foods Market locations throughout Southern California.

*Seafood for the Future* supports fish farming, domestically and abroad, wherever sustainable aquaculture is practiced. Good aquaculture can produce high quality seafood without adverse environmental impacts.

"The U.S. imports about 80 percent of its seafood. Of that, half is farmed overseas," says Anderson. "The U.S. is supporting aquaculture, just not at home. We need to support the industry in the U.S. where we can ensure proper oversight and regulation."

The program also considers the health of consumers in addition to the ocean. It should be easy to make good seafood choices that are healthful. There is no question that Americans should be eating more seafood and less red meat, but we all need the right information to make the right seafood choices.

"The sustainability movement overlaps with health and nutrition," says Gruel. "We want people to think about where food comes from and what they put in their mouths."

*Seafood for the Future* gives consumers who care about the ocean and love seafood an easy way to make the right choices. The next time you are at a restaurant, look for the *Seafood for the Future* logo. Visit [www.seafoodforthefuture.org](http://www.seafoodforthefuture.org) to learn about recommendations, recipes, and events. ■



DAVE ANDERSON

### **Roasted Oysters with Sweet Tomato Relish**

*Serves 4*

Preheat oven to 400° F

- 24 shucked oysters*
- 1 cup quartered cherry tomatoes*
- 1 tsp. chopped fresh thyme*
- 1 tsp. minced shallot*
- 1 tbsp. olive oil*
- 3 tbsp. grated parmesan*
- pinch of sea salt*
- fresh lemon wedges*

Place oysters on a baking pan, trying to retain all of their juices in the shell. Except lemon wedges, toss all of the remaining ingredients together. Spoon the mixture evenly on top of the oysters. Bake the tomato-filled oysters in the oven for 8 minutes. Squeeze fresh lemons over the oysters and serve immediately.

# Great Aquarium Activities!

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.



The Aquarium's annual Sea Fare fundraising event provides an opportunity to bid on auction items, enjoy a wide range of restaurant samples, and partake in an open bar.

## MEMBER EVENTS

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

### **M** MEMBER COMMUNITY OPEN HOUSE SUNDAY, NOVEMBER 15 (FAMILY NIGHT) TUESDAY, NOVEMBER 17 (ADULT NIGHT, 21+ ONLY) WEDNESDAY, NOVEMBER 18 (CHARTER MEMBER NIGHT) | 6:30-9:00 p.m.

Join us as the Aquarium hosts local businesses and non-profit organizations on a night especially for our members. Because downtown Long Beach has so much to offer, this special night will be a chance for you to learn about other things you can do after your visit to the Aquarium. Also, you will have a chance to meet some of our program animals and speak with our education staff to hear about opportunities at the Aquarium. And of course, the entire Aquarium will be open for your viewing pleasure, except for Lorikeet Forest. To ensure the animals get a good night's sleep, exhibit lighting will begin to dim at 8:30 p.m.

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

**RSVP** | (562) 437-FISH (3474)  
 required by Thursday, November 12

### **M** MEMBER TEEN WHALE WATCH SATURDAY, JANUARY 9 | 12:00-2:30 p.m.

Teens are invited to join us for an exciting boat excursion. Join Aquarium naturalists for an action-packed voyage in search of whales, dolphins, seals, and birds. Member teens will not want to miss this experience.

**COST** | \$15 for member teens | \$20 for member teens' guest (includes Aquarium admission)

**AGES** | 13-18 years old  
**RSVP** | (562) 437-FISH (3474)  
 required by Wednesday, January 6

## MEMBER EVENTS

### **M** SENIOR MEMBER TEA THURSDAY, FEBRUARY 11 | 2:00-3:00 p.m. or 3:30-4:30 p.m.

Senior members are invited to bring their favorite teacup and join us for a relaxing afternoon in the Watershed Classroom while enjoying hot tea and cookies. The Aquarium's Seafood for the Future Manager, Andrew Gruel, will share tips on sustainable cooking and how you can determine which seafood is most sustainable to purchase and eat.

**COST** | Free to senior members | members' guests receive 20% off regular admission

**RSVP** | (562) 437-FISH (3474)  
 required by Monday, February 8

### **M** KIDS ACTIVITY NIGHT FRIDAY, FEBRUARY 26 | 6:30-9:00 p.m.

On this special Kids Activity Night, member kids will have the opportunity to meet Sid from the "Sid the Science Kid," an educational PBS program co-produced by the Jim Henson Company and KCET/Los Angeles for PBS Kids. Sid is energetic and inquisitive and celebrates children's natural curiosity about science in every day life. In honor of Sid, our education staff will be doing a special program and science experiment in the Honda Theater, which will help answer the question, "Why do some fish glow?" Member kids will also enjoy themed crafts, face painting, and a visit from some of our program animals. The entire Aquarium will be open, except Lorikeet Forest. To ensure the animals get a good night's sleep, exhibit lighting will begin to dim at 8:30 p.m.

**COST** | Free | members' guests receive 20% off regular admission.

**RSVP** | (562) 437-FISH (3474)  
 required by Tuesday, February 23

## SPECIAL EVENTS

### **SE** SEA FARE SATURDAY, OCTOBER 17 | 6:30-10:30 p.m.

Dine with the fish, and bid on exciting auction items. The Aquarium of the Pacific will host its sixth annual Sea Fare, an evening of dining, live music, silent and live auctions, and more. Guests will kick off the night with an open bar and live music and will dine with the fish while sampling diverse cuisines from local restaurants and food and beverage companies. Attendees will have the opportunity to bid on a range of unique live and silent auction items. Proceeds will lend a helping fin to the non-profit Aquarium's ocean conservation education efforts. See the back cover for more information.

**COST** | \$100 per person, which includes an open bar and diverse samplings of food provided by area restaurants

**RSVP** | (562) 437-FISH (3474) or visit us online

### **SE** LATE NIGHT FRIDAY, NOVEMBER 27 | 5:00 p.m.-9:00 p.m.

Enjoy the Aquarium of the Pacific after hours on this special Late Night. Admission for non-members will be just \$11.95 per person after 5:00 p.m. Visitors will have the opportunity to watch the Aquarium's short films in the Honda Theater throughout the evening. Please note that Lorikeet Forest closes at 4:30 p.m.

**COST** | Free for members | \$11.95 for non-members  
**INFO** | (562) 437-FISH (3474)



Join us for *The Future is Wild* festival on October 10-11 to see computer-generated creatures the future.

**SPECIAL EVENTS**

**SE SHARK LAGOON NIGHTS**

FRIDAYS, SEPT. 11-DEC. 18 | 6:00-9:00 p.m.

Shark Lagoon is open for everyone for free after 6:00 p.m. Guests can touch and learn about sharks; shop at Shark Shack; and enjoy live music during select evenings.

**COST** | Free for everyone  
**INFO** | (562) 437-FISH (3474)

**SE THANKSGIVING LUNCH**

THURSDAY, NOVEMBER 26 | 11:00 a.m.-5:00 p.m.

Celebrate Thanksgiving with a special feast at Café Scuba at the Aquarium.

*Thanksgiving Lunch Menu*

Garden Salad	Mashed Potatoes and Gravy
Orange Ginger Glazed Ham	Candied Yams
Rosemary Rose Turkey	Green Beans
Cornbread Stuffing	Pumpkin Pie Squares

**COST** | \$24/adult or senior member, \$17/child member; \$34/adult non-member, \$27/child non-member (includes admission to the Aquarium)  
**RSVP** | (562) 437-FISH (3474)

**FESTIVALS**

To honor the rich diversity of Southern California, the Aquarium of the Pacific hosts cultural and family festivals throughout the year. Check our website for more details and additional family festivals.

**F SOUTHEAST ASIA DAY**

SATURDAY, OCTOBER 3 | 9:00 a.m.-5:00 p.m.

Our fifth annual Southeast Asia Day will highlight the beauty and diversity of Cambodian, Thai, Vietnamese, Burmese, Indonesian, and Laotian 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)



**F THE FUTURE IS WILD FESTIVAL**

SATURDAY AND SUNDAY, OCTOBER 10-11 | 9:00 a.m.-5:00 p.m.

You may have seen the TV series *The Future is Wild* that aired on Animal Planet or the animated series on Discovery Kids. Its next stop is the Aquarium. Meet sea creatures of the future during our *The Future is Wild* festival. Computer-generated creatures of five million, 100 million, or 200 million years in the future will be available for photo opportunities. Join us for special exhibits, a scavenger hunt, children's crafts, a special film, and onsite games with prizes.

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



**INFO** | (562) 437-FISH (3474)

**FESTIVALS**

**F SCARIUM OF THE PACIFIC**

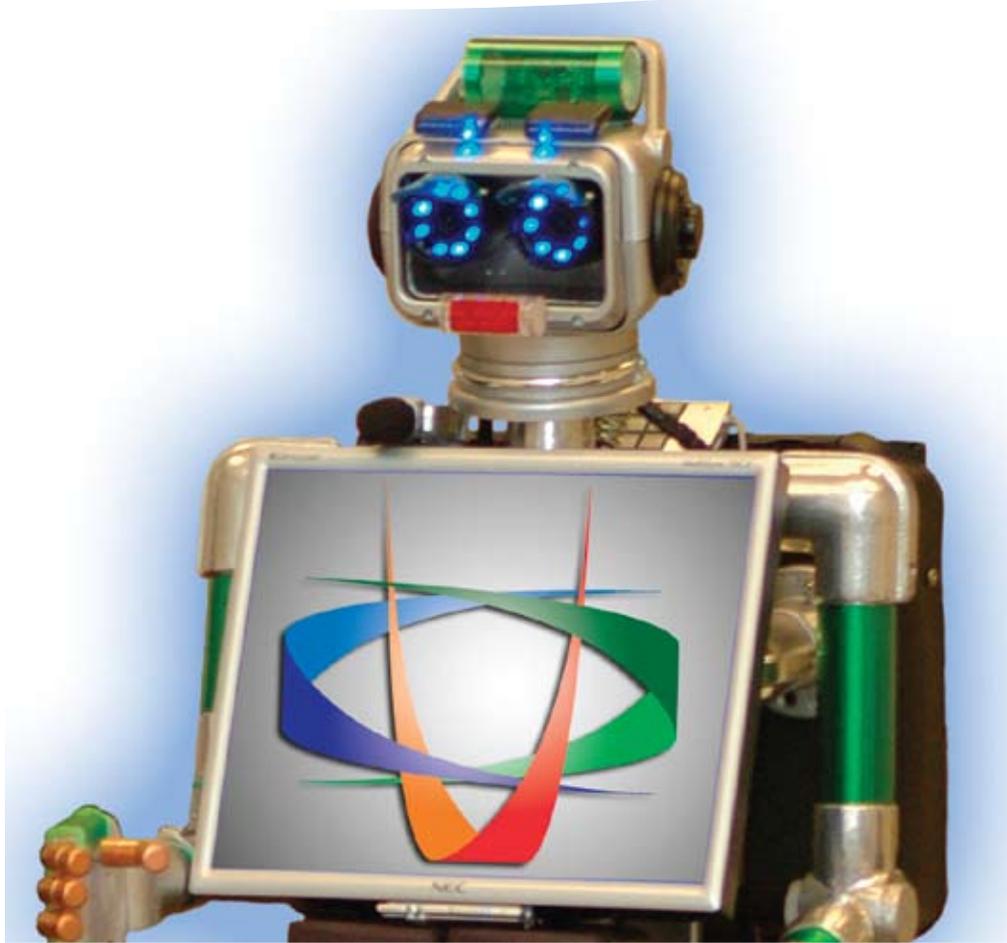
SATURDAY & SUNDAY, OCTOBER 24-25 | 9:00 a.m.-5:00 p.m.

Discover the creatures lurking in the depths of the Pacific at the Scarium of the Pacific—a spooktacular educational Halloween event for the whole family. Enjoy special Halloween programs, including the annual children's costume contest, the creepy coloring contest, magic shows, spooky storytelling, kooky crafts, and eerie animals in the Great Hall.

In addition, take part in a movement to lower carbon emissions by joining the Aquarium and 350.org in celebrating the International Day of Climate Action. Learn about the significance of the number 350 as it relates to carbon emissions throughout the weekend festival (also read the Focus on Sustainability article on page 2 to learn about 350). A new special prize category for costumes made with recycled materials has been added this year to show that even goblins can be green.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)





Talk with TERRI the Robot at our NOAA and Our Planet Day on November 14.

**FESTIVALS**

**F HOLIDAY TREATS FOR THE ANIMALS**  
 SATURDAY & SUNDAY, DECEMBER 5-6 |  
 9:00 a.m.-5:00 p.m.

In celebration of the holiday season, Scuba Santa will be delivering an ocean of gifts to the sea otters, seals, sea lions, birds, fish, and other animals at the Aquarium. Watch the Aquarium's animals receive their special treats and enrichment gifts during the weekend. Families can enjoy holiday music, crafts, special presentations, unique photo opportunities, and shopping. The Seal and Sea Lion Habitat will be decked out for the season with frozen "fishmas" treats. The sea otters will receive candy cane-shaped ice treats, gourmet lobster tails, and their very own snowman. Throughout the day Aquarium staff will give special gift delicacies to other marine animals as well.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)

**F FESTIVAL OF HUMAN ABILITIES**  
 SATURDAY & SUNDAY, JANUARY 23-24 |  
 9:00 a.m.-5:00 p.m.

The seventh annual Festival of Human Abilities continues our recognition of the creative talents and abilities of people with disabilities. Wheelchair dance, live music, sign language choirs, art demonstrations, storytelling, service dog demonstrations, and other creative performances will be featured. Sign language interpreters will be present at all major shows and an audio tour is available for those who are blind. Also added this year are interactive workshops.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)



**F AFRICAN HERITAGE FESTIVAL**  
 SATURDAY & SUNDAY, FEBRUARY 20-21 |  
 9:00 a.m.-5:00 p.m.

The African Heritage Festival celebrates the richness and diversity of African and African American cultures. The weekend will feature interactive drum circles, West African dance, live jazz, and storytelling.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)

**FESTIVALS**

**F AUTUMN FESTIVAL**  
 SATURDAY & SUNDAY, NOVEMBER 7-8 |  
 9:00 a.m.-5:00 p.m.

Join us as we celebrate the traditions and cultures of Japan, China, Korea, and the Philippines during this weekend of learning opportunities and family entertainment. Move to the sounds of Taiko drumming, watch dancers, acrobats, and martial arts demonstrations. Try your hand at origami, and purchase hand-made crafts. The Autumn Festival is a joint project of the Aquarium of the Pacific and WOW productions.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)



**FESTIVALS**

**F NOAA AND OUR PLANET DAY**  
 SATURDAY, NOVEMBER 14 | 9:00 a.m.-5:00 p.m.

Find out what the National Oceanic and Atmospheric Administration (NOAA) does for you, our nation, and our world at this annual event. Visit the Aquarium to learn how NOAA, a government agency, works to understand and predict changes in Earth's environment to conserve and manage coastal and marine resources. Explore and interact with the science zone, talk with TERRI the Robot while learning about NOAA, watch a Remotely Operated Vehicle (ROV) in action, view award winning NOAA films, enjoy a puppet show on ocean conservation, learn how NOAA protects ocean life, and get the facts on climate change. There will be a special guest appearance by Wyland, the world-famous marine life artist.

**COST** | Free for members | members' guests receive 20% off regular admission  
**INFO** | (562) 437-FISH (3474)

GUEST SPEAKERS

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

**65 JAMES WOOD | *Cephalopods: Chameleons of the Sea***

TUESDAY, OCTOBER 6 | 7:00 p.m.

Octopuses, squid, cuttlefishes, and nautilus are the amazing creatures known as cephalopods. They are found in the global ocean from the tropics to the poles and from intertidal coastal areas to the abyss. They are capable of changing their appearance in terms of color, texture, and pattern. If these tricks do not work, these underwater chameleons can disappear in a cloud of ink that acts as a smokescreen. Cuttlefishes have inspired legends and stories throughout history and are thought to be the most intelligent of the invertebrates. Dr. James Wood will introduce us to these unique animals in a presentation rich with images and videos. He will also share some of his recent research. Wood is the director of education at the Aquarium of the Pacific. He is a board member and director of cephalopods at MarineBio. He holds a Ph.D. in biology from Dalhousie University.

**65 JEFFREY GALLANT AND CHRIS HARVEY-CLARK | *Dreamless Sleeper: The Lure of the Greenland Shark***

THURSDAY, OCTOBER 15 | 7:00 p.m.

John Steinbeck wrote that, "An ocean without its unnamed monsters would be like a completely dreamless sleep." One such mythical unnamed "monster" has come to be known as the Greenland shark. Until recently, few humans had ever seen this deep sea Arctic shark alive, and the Greenland shark is still virtually unknown to science. Mr. Jeffrey Gallant and Dr. Chris Harvey-Clark, researchers at the Greenland Shark and Elasmobranch Education and Research Group (GEERG), will speak about the rare and elusive shark—the only shark known to live in Arctic waters year-round. Gallant and Harvey-Clark will use a multimedia presentation to share how they searched for and ultimately found a population of Greenland sharks. Underwater video footage (that has never been shown publicly before) will reveal some of the mysteries surrounding this apex predator.

GUEST SPEAKERS

**65 WILL ALEXANDER | *The Sri Lankan Loxodrome***

WEDNESDAY, OCTOBER 21 | 7:00 p.m.

Join us for a poetry reading by Will Alexander from his newly released poetry collection, *The Sri Lankan Loxodrome* (New Directions, 2009). Alexander is a Los Angeles poet, novelist, essayist, playwright, and visual artist. His many honors include a PEN Oakland Award, a Whiting Fellowship for Poetry, and a California Arts Council Fellowship. He has taught at various institutions, including Theatre of Hearts/Youth First, which serves at-risk youth. His works include *Asia & Haiti* (Sun & Moon Press, 1995) and *Towards the Primeval Lightning Field* (O Books, 1998). Alexander's latest book will be available at the gift shop. Presented in a coffeehouse setting, the evening will have coffee, drinks, and pastries available for purchase.



The vaquita (*Phocoena sinus*) is critically endangered.

**65 BARBARA TAYLOR | *Critically Endangered: Can the Vaquita Be Saved From Extinction?***

TUESDAY, NOVEMBER 10 | 7:00 p.m.

The vaquita (*Phocoena sinus*) is a small porpoise that inhabits the far northern Gulf of California. The vaquita became the most critically endangered marine mammal in the world when the Chinese river dolphin was deemed likely to be extinct in 2006. With only an estimated 150 vaquita remaining, they are threatened with extinction, primarily as a result of being caught as bycatch in nets used to catch fish and shrimp.

Dr. Barbara Taylor is a supervisory research fish biologist with NOAA's National Marine Fisheries Service. She was the U.S. lead scientist on a three-nation 2008 expedition designed to develop new acoustic monitoring methods and population estimates intended to assist Mexico in conservation efforts to save the vaquita. She will discuss the expedition results and show us the best video and photographs ever seen of this rare animal.

GUEST SPEAKERS

**65 ERIC ZAHN | *Restoring Los Cerritos Wetlands: Waiting for the Tides to Return***

MONDAY, NOVEMBER 30 | 7:00 p.m.

Our coastal Southern California salt marsh ecosystems have a remarkable history of survival since rapid urbanization began in the early 1900s. Nearby Los Cerritos Wetlands is one of about 30 biologically diverse tidal wetland complexes located between San Quintin Bay, Baja Mexico and Point Conception, California. Dr. Eric Zahn will talk about the natural history of Los Cerritos Wetlands, its existing ecology and politics, and the status of the conservation effort in the works to protect and restore this precious and valuable Long Beach resource.

Zahn is a salt marsh ecologist and avid botanist who has been one of the local leaders focused on conserving coastal wetlands in Long Beach. He is a co-principal for Tidal Influence, a company he founded to aid community groups and municipalities with their wetlands restoration efforts. Zahn is a lecturer in the Environmental Science and Policy Program at California State University, Long Beach.

**65 MONTY GRAHAM | *The Stinging Truth Behind Blooms of Sea Jellies***

THURSDAY, DECEMBER 10 | 7:00 p.m.

Despite numerous recent examples of massive and unprecedented blooms of sea jellies in coastal waters around the world, these much-maligned animals remain enigmatic to marine science. Are these blooms simply natural variations? Or are they a sign of something sinister in our seas? We will take a close look at sea jellies, their populations and the possible influence that human activity might have on sea jellies in coastal marine ecosystems.

Dr. Monty Graham is a senior marine scientist at the Dauphin Island Sea Lab near Mobile, Alabama. He received his doctorate in biology from the University of California at Santa Cruz in 1994. Dr. Graham has broad expertise in the field of biological oceanography and zooplankton ecology, but his research focuses on the ecology of gelatinous plankton blooms around the world.



The Greenland shark (*Somniosus microcephalus*) is thought to play an important ecological role.

#### GUEST SPEAKERS

**69 NATE JAROS | *Sea Jellies in Aquariums: The Next Frontier***  
WEDNESDAY, JANUARY 13 | 7:00 p.m.

Join us for a lecture by Aquarium of the Pacific Senior Aquarist Nate Jaros, who specializes in sea jellies. Historically, keeping and observing sea jellies has proven to be extremely difficult. With better understanding of their natural ranges and diets, captive-reared specimens are growing larger, living longer, and are better representatives of their wild counterparts. Jaros received his B.S. in biology and environmental science from Creighton University in Omaha, Nebraska. In 2005 Jaros began culturing seahorses and working with sea dragons at the Aquarium. Since 2007 Jaros has cultured the nine species of jellies featured at the Aquarium.

**69 TREVOR CORSON | *Sexy Lobster, Succulent Sushi: My Favorite Facts about Underwater Bugs, Raw Fish, and the Future of Our Oceans***  
WEDNESDAY, JANUARY 27 | 7:00 p.m.

The seafood on your plate isn't just food—it's an astonishingly weird and interesting cast of underwater characters, from randy lobsters to squirmy seaweed to gargantuan tuna fish. And it is caught and collected by equally interesting human beings, in ways that are sometimes good and sometimes bad. A former commercial lobster fisherman turned pop-science writer and culinary expert, Trevor Corson will entertain you with tales about the briny world beyond your plate, telling stories that are often amusing, sometimes sobering, and always fascinating. He will begin with the rugged lives of Maine fishermen and the hilarious sex lives of the lobsters they catch, moving on to the surprising secrets of the mysterious world of sushi, and tying it all together with useful lessons about how we can all make smarter choices about what we eat.

#### GUEST SPEAKERS

Corson is the author of *The Story of Sushi: An Unlikely Saga of Raw Fish and Rice*, which tells the true story of a group of apprentice sushi chefs in Los Angeles as they struggle to master the centuries-old art of Japanese cuisine. Corson is a frequent commentator on NPR and a judge on the Food Network's TV show *Iron Chef America*. Known for his humorous and informative presentations on the creatures that compose our seafood, he goes by some rather unusual nicknames, including "The Lobster Sex Guy" and "America's Only Sushi Concierge."

**69 GEORGE BENZ | *Shark Research at the Top of the World***  
WEDNESDAY, FEBRUARY 17 | 7:00 p.m.

Dr. George Benz will discuss ongoing Greenland shark research from the perspective of the Arctic as a beautiful, intellectually stimulating, globally significant, and highly complex ecosystem. Ongoing collaborative studies of Greenland sharks suggest that this shark plays an important ecological role in both Arctic and sub-Arctic waters. Greenland sharks are known to live under land-fast sea ice and are believed to be the only shark species routinely inhabiting true Arctic waters. However, as with so many Arctic phenomena, the ecological role of the Greenland shark may soon be altered due to Arctic warming that is predicted to result in an "ice-free" Arctic seascape for much of the year.

Benz is a professor of biology at Middle Tennessee State University. Prior to this, he held positions at Tennessee Aquarium as the curator of fishes and then as chief research scientist. He holds a Ph.D. from the University of British Columbia.



#### SPECIAL OPPORTUNITY

**HOME FREE SCREENING**  
WEDNESDAY, DECEMBER 16 | 7:00 p.m.

We are living in exceptional times. And the stakes are high for us, our children, and future generations. Scientists tell us that we have 10 years to change the way we live in order to avert the depletion of natural resources and the catastrophic evolution of the Earth's climate. The 90-minute documentary HOME embraces the major ecological issues that confront us and shows how everything on our planet is interconnected. By bringing us unique footage of the Earth and sharing with us his wonder and his concern, Yann Arthus-Bertrand lays a foundation for the world that, together, we must rebuild. The film HOME intends to shift people's perceptions, to make us aware of the tectonic movements at work, and to incite us to act.

Through the landscapes of 54 countries captured from above, Arthus-Bertrand takes us on a unique journey all around the planet, to contemplate it and to understand it. Every image shows the Earth's treasures that we are destroying and all the wonders we can still preserve.

*To be guaranteed a free seat at the movie, reservations are recommended and will have first priority.*

RSVP | (562) 437-FISH (3474) or online



Aquarium member, volunteer, and donor Coral Levin feeds a ray during the daily 2:00 p.m. feeding at Shark Lagoon. If you would like to feed one of our rays, sign up to go above our Tropical Pacific exhibit or the Ray Touchpools.

ANDREW REITSMAN

### AQUARIUM TOURS

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

#### **AT** FEED A SHARK OR RAY

WEEKDAYS | 10:15 a.m. & 2:15 p.m.  
WEEKENDS | 10:15 a.m. & 2:45 p.m.

Venture out on a platform above our largest exhibit, Tropical Reef, and feed a shark or ray.

COST | \$25/member | \$30/non-member  
GROUP SIZE | 4 people  
LENGTH | 30 minutes  
AGE | 12+ years  
RSVP | (562) 951-1630

#### **AT** FEED A RAY

WEEKENDS | 11:30 a.m. & 3:30 p.m.

At the Ray Touchpool, you can feed a cup of food to the rays. This is available poolside while supplies last. Please bring cash.

COST | \$5

#### **AT** SHARKS BEHIND-THE-SCENES TOURS

DAILY | times vary

This special Behind-the-Scenes Tour will give guests a glimpse of areas behind Shark Lagoon. The group will see the development of our new Animal Care Center. The tour will focus on shark adaptations, shark husbandry, shark conservation, and the importance of sharks in the ocean ecosystems. And guests will go above our largest exhibit to feed the fish!

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*

### AQUARIUM TOURS

#### **AT** ANIMAL ENCOUNTERS

SATURDAYS and SUNDAYS | *see 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

#### **AT** HARBOR TOUR

Tour the Long Beach/Los Angeles Harbors with Harbor Breeze Cruises for a 45-minute narrated cruise around one of the most active ports in the world. See the downtown shoreline, ocean vistas, ships from around the world, and even sea lions. Tours are offered throughout the day on a daily basis. Tickets may be purchased in advance or at the ticket window upon arrival. Meet 15 minutes prior to departure at Dock #2. This program is led and staffed by Harbor Breeze Cruises.

COST | Members: \$12/adult, \$10/senior, \$6/child (3-11) | non-members: \$33.95/adult, \$28.95/senior (62+), \$15.95/child (3-11) (includes Aquarium admission)  
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 SLEEPOVERS

*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. Bring your own birthday cake or order a personalized one through us (additional charge applies).

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** FAMILY SLEEPOVER

*based on availability* | 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** ADULT SLEEPOVER

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

**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



A sample of pumpkins decorated by Aquarium staff. Topaz is the Aquarium's behind-the-scenes mascot.

**AQUARIUM SLEEPOVERS**

**SL YOUTH GROUP SLEEPOVERS**

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

**SL NEW HALLOWEEN FAMILY SLEEPOVER**

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

Have a "spooktacular" evening at the Aquarium with creepy crawly critters, pumpkin painting, and a freaky flashlight tour. The sleepover includes a pizza dinner, a light snack, animal interactions, cereal breakfast, and more. Family friendly costumes are welcome. Space is limited, so sign up today!

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

**AGES** | 5+ years, plus adult chaperone

**RSVP** | (562) 951-1630

**AQUARIUM SLEEPOVERS**

**SL HOMESCHOOL FAMILY SLEEPOVER**

MONDAY, NOVEMBER 16 | 5:00 p.m.-7:00 a.m.

Homeschool families are invited to join us as we explore the Aquarium with fun and educational hands-on activities. Included in your sleepover will be a pizza dinner, light snack, T-shirt painting, theater programs, animal interactions, cereal breakfast, and more.

**COST** | \$50/person

**AGES** | 5+ years, plus adult chaperone

**RSVP** | (562) 951-1630

**NEW YEAR'S EVE FAMILY SLEEPOVER**

THURSDAY, DECEMBER 31 | 5:00 p.m.-7:00 a.m.

Ring in 2010 and party with the fishes! You will start a new tradition when you bring your family to the Aquarium for a very memorable New Year's experience. Included in this program are a pizza dinner, snack, cereal breakfast, and T-shirt. We will also have a sparkling cider toast to celebrate the New Year.

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

**AGES** | 5+ years

**RSVP** | (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 GRAY WHALE WATCH**  
SEASONAL

Take a voyage with Harbor Breeze Cruises in search of whales as they migrate along our coastline. Learn about these gentle giants from an Aquarium onboard educator.

**COST** | Members: \$25/adult | \$20/senior | \$15/child  
Non-members (includes Aquarium admission):  
\$42.95/adult | \$39.95/senior | \$28.95/child

**LENGTH** | 2-2.5 hours

**AGE** | Children under 16 must be accompanied by an adult

**RSVP** | (562) 951-1630

**OA DOLPHIN AND SEA LIFE CRUISE**  
SEASONAL

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

**OA NATURE BY KAYAK**

SAT., OCTOBER 17 | SAT., NOVEMBER 21  
SUN., DECEMBER 20 | SAT., JANUARY 9  
SAT., FEBRUARY 20 | 9:00 a.m.-12:00 noon

WINTER IS THE BEST SEASON FOR BIRD WATCHING!

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

**WINTER PROGRAMS**

**WP 12 DAYS BY THE SEASHORE**

SATURDAYS, DECEMBER 5 or 19 | 9:30-11:30 a.m.  
SUNDAY, DECEMBER 13 | 3:30-5:30 p.m.

Join us as we create a fun and educational holiday-inspired book in this two-hour workshop. Learn about 12 ocean creatures that live by the seashore, including sea stars, lobsters, sand dollars, and 5 golden trevallies! Not only will you discover fascinating facts about each of these animals as you tour through the galleries, but you will also take home a special keepsake book. Sign up now, as space is limited.

**AGES** | 7+ years | 3-6 years with adult chaperone

**COST** | \$30/member pair | \$14/additional member  
\$42/non-member pair | \$20/additional non-member (includes Aquarium admission)

**RSVP** | (562) 951-1630

**WP SEA SQUIRT WINTER CAMP**

MONDAY-WEDNESDAY, DECEMBER 21-23 | 8:30 a.m.-11:30 a.m.

This three-day 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 fluffy birds. This camp encourages little ones to interact and explore independently from parents. Through hands-on activities, stories, crafts, and tours, your child will prove that little learners can learn big things!

**AGES** | 5-6 (children only)

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

**RSVP** | (562) 951-1630

**WP WINTER DAY CAMP**

MONDAY-WEDNESDAY, DECEMBER 28-30 | 9:00 a.m.-3:00 p.m.

Join us as we explore the Pacific Ocean and its inhabitants during our three-day winter day camp adventure. Campers will learn about marine life through hands-on activities, games, and crafts. Participants will even get the chance to go behind the scenes at the Aquarium, meet our animal husbandry staff, and help us take care of some of the animals that make their home here at the Aquarium. Extended child care is available from 8:00-9:00 a.m. and 3:00-5:00 p.m. for an additional cost.

**AGES** | Grades 2-4 (children only, must be at least 7 to participate)

**COST** | \$125/member | \$150/non-member

**RSVP** | (562) 951-1630



PEERY-HAMPTON

**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.

<b>TOPIC</b>   Marine Mammals	OCT. 17 (ages 7-10) OCT. 24 (ages 10-12)
Invertebrates	NOV. 14 (ages 7-10) NOV. 21 (ages 10-12)
Fish	DEC. 5 (ages 7-10) DEC. 12 (ages 10-12)
Birds and Reptiles	JAN. 9 (ages 7-10) JAN. 16 (ages 10-12)
Southern Calif./Baja	FEB. 13 (ages 7-10) FEB. 20 (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, shadow-education and husbandry staff.

**TOPIC** | Veterinarian OCT. 3 or FEB. 6 | Aquarist NOV. 7  
Mammalogist DEC. 12 | Aviculturist JAN 2

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

**AGES** | grades 7-12

**RSVP** | (562) 951-1630



ANDREW FRETSMA

**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**

**SATURDAYS, OCTOBER 10 OR FEBRUARY 27 | 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, NOVEMBER 28 | 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 SEA JELLIES AND OTHER INCREDIBLE INVERTEBRATES**

**SATURDAY, JANUARY 30 | 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

**SPECIAL OPPORTUNITY**

**TEACHERS OPEN HOUSE**

WEDNESDAY, OCTOBER 14 | 6:30-8:30 p.m.

Be our guest and bring an adult friend to a special night dedicated to teachers. Meet the Aquarium's education staff, observe classroom demonstrations and theater programs, and learn about upcoming teacher events and scholarship opportunities. Tour the Aquarium galleries and enjoy a wine and cheese reception. Receive a 20% discount on all gift store purchases, and enter a drawing to win great prizes.

Reservations are required for this complimentary event. Please call (562) 951-1630 to reserve your spot today.



**SPECIAL OPPORTUNITY**

**SOUTHERN CALIFORNIA'S URBAN OCEAN**

Greater Los Angeles has one of the most urbanized coastlines and oceans in the U.S. and in the world. The nation's two largest container ports account for nearly 40% of all U.S. imports. A population of more than 10 million people lives within 50 miles of this segment of the coast. It is also the stop-over place for one of the largest and most diverse assemblages of whales on their journeys north and south.

The various uses of Southern California's coastal ocean are intense and often in conflict with each other. Marine animals that call these waters home are often subjected to human-induced dangers. Nature and human society will be further challenged in the near future as our population grows, as sea level continues to rise, as the ocean becomes warmer and more acidic, and as the frequency and intensity of coastal storms increases. We are entering uncharted territory.

We invite you to explore with experts and stakeholders Southern California's urban ocean, what the future may bring, and how that future can be shaped. The series will culminate in a narrated cruise of one of the most urbanized segments of the world ocean anywhere.

**WHEN** | Thursdays, October 29 and November 5, 12, 19 | 7:00-9:30 p.m.  
(please arrive 30 minutes early for first session)

**COST** | \$55/members | \$75/non-members (price includes boat cruise) \$10 extra with CEU credit (offered through CSULB)

**AGE** | 18+ years

**WHERE** | Watershed Classroom

**RSVP** | (562) 951-1609



PERRY HAMPTON



ANDREW REITSMAN

**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 "O" IS FOR OTTER**

TUESDAY, OCTOBER 20 | 2:30-4:30 p.m.  
THURSDAY, FEBRUARY 18 | 2:30-4:30 p.m.

Find out how a sea otter spends its day, both above and below the water's surface. Discover what tools they use to eat, what keeps them warm, and why their teeth are sometimes purple.

**PP SILLY SEALS AND SEA LIONS**

WEDNESDAY, NOVEMBER 18 | 2:30-4:30 p.m.

Let's dive through the kelp forest in search of seals and sea lions. We will look at their adaptations to the water and discover how to tell apart these furry creatures. Come along as we investigate the California residents that live right off our coast.

**PP SPINELESS WONDERS**

TUESDAY, DECEMBER 15 | 2:30-4:30 p.m.

What do a sea anemone, an octopus, and a snail all have in common? None of these animals have backbones! Come along as we explore these amazing spineless creatures and learn the fascinating ways they survive in the ocean.

**PP PUFFINS AND PALS**

SATURDAY, JANUARY 23 | 9:30-11:30 a.m.

Puffins are amazing seabirds that not only use their wings to fly, but also to swim. Join us as we "zoom in" on puffins and other seabirds to find out what makes them so special.

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

**AGES** | 4-5 years

**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 MOVIN' & GROOVIN' BENEATH THE SEA**

TUESDAY, OCTOBER 6 | 4:00-5:30 p.m.  
TUESDAY, JANUARY 12 | 4:00-5:30 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**

WEDNESDAY, OCTOBER 21 | 3:00-4:30 p.m.  
THURSDAY, JANUARY 28 | 3:00-4:30 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 SLIPPERY TO PRICKLY**

WEDNESDAY, NOVEMBER 4 | 4:00-5:30 p.m.  
THURSDAY, FEBRUARY 4 | 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.

**AQUA TOTS**

**AQ SUPER SENSES OF THE SEA**

TUESDAY, NOVEMBER 17 | 3:00-4:30 p.m.  
TUESDAY, FEBRUARY 16 | 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 SOUNDS OF THE SEA**

TUESDAY, DECEMBER 1 | 4:00-5:30 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 COLORS OF THE OCEAN**

WEDNESDAY, DECEMBER 16 | 3:00-4:30 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.

**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



AMY TOYAMA

# PLANNED GIVING

MAKE A SIMPLE DECISION TODAY THAT WILL HAVE A GREAT IMPACT TOMORROW!

*Join other Aquarium supporters by making a planned gift to the Aquarium. A planned gift can be as easy as designating the Aquarium as a partial or full beneficiary of your life insurance or retirement plan.*



## 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**

TUESDAY, OCTOBER 13 OR THURSDAY, JANUARY 14  
| 8:30-9:30A.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 and craft 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

W

**HEN YOU GIVE A PLANNED GIFT**, the donation is directed to an endowment fund, unless otherwise specified, that earns annual interest. Each year a small portion of the interest may be directed

towards Aquarium projects, while the remaining interest is reinvested in the Endowment Fund. This establishes a body of Aquarium support that will continue year after year—providing stable, reliable income to fund animal care, new exhibits, and educational programs. You can be part of this growing endowment by making a bequest to the Aquarium today.

You may also add a few lines of text to your will or living trust to donate a specific gift or percentage of your estate to the Aquarium of the Pacific. Your attorney may ask for the following sample language: "I give (\_\_\_\_dollars, a specific asset, or \_\_\_\_ percent of the rest, residue, and remainder of my estate) to the Aquarium of the Pacific, 100 Aquarium Way, Long Beach, CA 90802, tax exempt ID # 33-0532354, for its general use and purposes."

Unless otherwise specified, all planned gifts are directed to the Aquarium's Endowment Fund, which are preserved in perpetuity. Your gift will ensure that the Aquarium can continue to live up to its mission year after year. There are special benefits for planned giving donors, so call (562) 951-1664 today to have a confidential conversation about your giving plans.

## KIDS CORNER

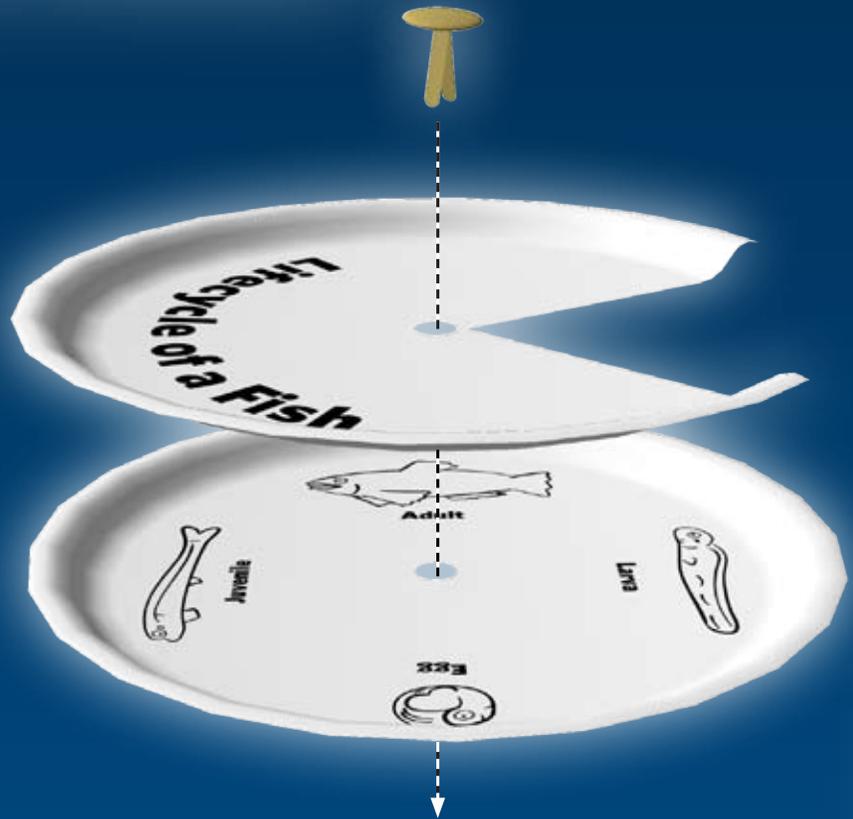
# Fish Lifecycle Wheel

CONTRIBUTED BY SABREENA KASBATI



HERE ARE OVER 25,000 FISH SPECIES IN THE WORLD, AND MANY START LIFE IN AN EGG. Inside the egg, a yolk sac feeds them until they are developed enough to survive on their own. They will hatch as zooplankton, microscopic animals that go wherever the water flows. They then become larvae. In a few months, the baby fish grow into juvenile fish that can actively swim. Lastly, the adult stage happens when the fish are mature enough to have babies.

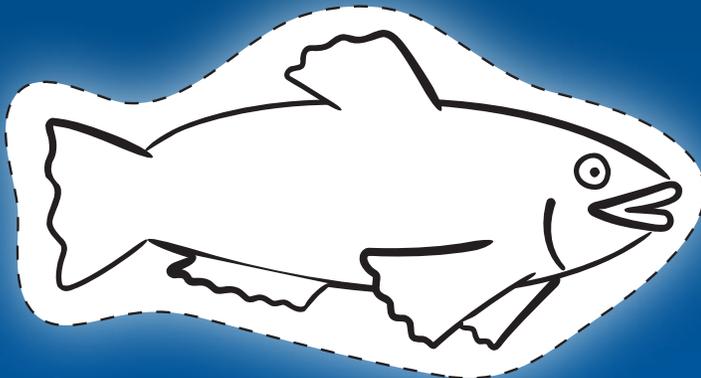
It is not easy being a fish. They have plenty of obstacles testing their survival: predators, pollution, overfishing, habitat loss, changes in water temperature, and more. If you want to help fish survive, you can start by understanding their lifecycles and remembering the challenges they face. Create your own fish lifecycle wheel and show it to your friends.



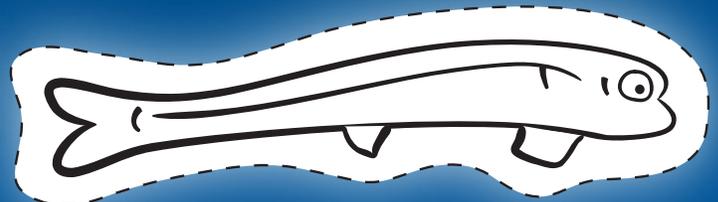
**Egg**



**Larva**



**Adult**



**Juvenile**

### MATERIALS:

- 2 white paper plates
- 1 brass brad
- white paper
- fish lifecycle tracers (on the page to the left)
- scissors
- markers, crayons, or colored pencils
- glue or tape

### DIRECTIONS:

1. Place the paper plates together and poke a small hole in the middle with the scissor's tip.
2. Cut a triangle out of the top plate, being careful not to cut into the hole you just made.
3. Trace or photocopy the four drawings shown to the left onto white paper. Color them and cut them out.
4. Glue or tape your fish drawings in four different places on the inside of the bottom plate in this order going clockwise: egg, larva, juvenile, and adult.
5. Label the drawings with their stage of life and draw arrows from one picture to the other in the order of the growth.
6. Put the plates together, making sure that the plate on the bottom has the illustrations and the plate on top has the cut out triangle so that the illustrations show through. Push the brass brad into the hole in the middle to hold the plates together.
7. Hold onto the back plate and turn the front plate clockwise to view your fish lifecycle. Label your top plate, "Lifecycle of a Fish."

## Fishing for KNOWLEDGE!

1. Baby fish in the larval stage are known as \_\_\_\_\_.
2. One obstacle that can stop fish from surviving is \_\_\_\_\_, which is caused by people taking too many fish from the ocean.
3. Fish have a stage in their lives where they are \_\_\_\_\_, microscopic animals that drift in the water.

### Last Issue's Questions and Answers:

1. There are approximately **375** species (or types) of sharks in the world.
2. A shark's skeleton is made up of **cartilage**, the same material in your ears and nose.
3. The largest shark in the ocean is the **whale** shark, which has tiny teeth that it does not use to eat. It consumes small fishes and plankton using specialized filters in its mouth.

### TOPSMELT SILVERSIDE

*Atherinops affinis*



SOUTHERN CALIFORNIA/BAJA GALLERY

### BARRED SAND BASS

*Paralabrax nebulifer*



SOUTHERN CALIFORNIA/BAJA GALLERY

### VERMILION ROCKFISH

*Sebastes miniatus*



NORTHERN PACIFIC GALLERY

## TOPSMELT SILVERSIDE

*Atherinops affinis*



### PHYSICAL CHARACTERISTICS

Their dorsal (top) side is an iridescent blue to green, and their frontal (bottom) side is silver. A striking silver band runs down the sides of the body. They can grow to 1.2 feet (37 cm) long and may live up to nine years.

### HABITAT

Topsmelt are a schooling fish found in coastal bays, muddy areas, and beds of algae from Vancouver Island, Canada down to Baja California.

### DIET

They feed on small insects near the water's surface and plankton.

### FUN FACT

Called "topsmelt" for their habit of swimming up near the surface, these fish can live in salt ponds twice as salty as the sea.

## BARRED SAND BASS

*Paralabrax nebulifer*



### PHYSICAL CHARACTERISTICS

This football-shaped fish is silver with black stripes on the dorsal (top) side and a white frontal (bottom) side. There is a hint of yellow in the tail and the dorsal fin. They reach 2.2 feet (67 cm) and 13 pounds (5,980 g).

### HABITAT

They range from Central California to Acapulco, Mexico and live in shallow areas to depths of 600 feet (183 m) in sandy areas.

### DIET

Juveniles will eat benthic crabs, clams, snails, and shrimp. As adults, they will expand their diet to fish as well.

### FUN FACT

Barred sand bass are known by several different names, including sandy, ground bass, sugar bass, kelp bass, California sandbass, and rock bass.

## VERMILION ROCKFISH

*Sebastes miniatus*



### PHYSICAL CHARACTERISTICS

This fusiform fish is red-orange in coloration with grayish blue lines. They can reach three feet (91 cm) and 15 pounds (6,800 g).

### HABITAT

They live in the Eastern Pacific from British Columbia, Canada to central Baja California on shallow rocky reefs.

### DIET

They eat plankton, small crabs and shrimp, and fish.

### FUN FACT

The color red is lost quickly in darker ocean depths. This rockfish, with its striking color when at the ocean's surface, is effectively camouflaged in deeper waters.

# Members!

Join our new and exclusive Aquarium online community.

REGISTER TODAY AND CUSTOMIZE YOUR MEMBERSHIP WITH THESE GREAT BENEFITS.

- ✓ Purchase extra print-at-home tickets with your member discount!
- ✓ Buy advance tickets to 3D films, Behind-the-Scenes Tours, and other onsite opportunities
- ✓ Renew or purchase memberships quickly and easily
- ✓ Go green by requesting paperless communication
- ✓ Update your personal information
- ✓ Be the first to know about special offers and discounts

Sign up for FREE today at [www.aquariumofpacific.org/register](http://www.aquariumofpacific.org/register).

# Earn a free entrée at Café Scuba



The Aquarium of the Pacific is pleased to introduce a brand 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 at any time during normal Aquarium hours to pick up your Frequent Diner Card. The 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.

AQUARIUM OF THE PACIFIC

MEMBERS-ONLY SPECIAL

## SAVE 20% this winter 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 02/28/10 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-0210-A



# Aquarium Honored by the Alliance to Save Energy

As an energy efficient organization, the Aquarium was recognized for its investment in minimizing its carbon footprint.

**T**HE ALLIANCE to Save Energy promotes energy efficiency worldwide to achieve a healthier economy, a cleaner environment, and greater energy security.

Each year the Alliance to Save Energy ([www.ase.org](http://www.ase.org)) recognizes companies, learning institutions, state offices, and government programs for their efforts to promote energy efficiency domestically and/or overseas with Star of Energy Efficiency Awards.

In September the Aquarium of the Pacific was proud to be recognized with a Super Nova Star Award for our investment in energy and climate conservation practices, serving as a leader in educating the community about sustainable activities, and embracing energy efficient technologies. Effectively implementing numerous approaches to minimizing energy loss, the Aquarium has had no net increase of kilowatt usage despite a consistent increase in visitors for eight consecutive years. Efficient lighting systems, co-generation, insulated life support systems, high efficiency pool pumps,

and leading-edge operating procedures were adopted to comply with ongoing energy initiatives. In addition, because small energy losses can add up, the Aquarium implements "1% solutions" in as many of its business practices as possible.

In 2008 the Aquarium inaugurated a new environmental classroom, the City of Long Beach's first building certified as LEED Platinum. The classroom uses solar power, a green roof, and a rainwater capture system among other energy and water efficiencies. The Aquarium is committed to achieving LEED Platinum or Gold certification for all future projects.

The Aquarium became the first among museums, zoos, and aquariums in the United States to certify its greenhouse gas emissions with a third-party registry in 2007. Designated as a Climate Action Leader with the Climate Action Registry, the Aquarium continues to register its emissions each year.

As the Aquarium continues to grow, one of the underlying objectives of the master plan is

to increase attendance by expanding the facility's capacity without increasing energy and potable water usage. The Aquarium intends to continue to grow without increasing its usage of the electricity "grid."

The Aquarium was also recognized for our Green Team task force that organizes environmentally friendly activities such as the annual street cleanup and hosting the Earth Day festival.

The Alliance to Save Energy recognized the Aquarium as the most energy efficient business with annual revenues under \$150 million at its September gala in Washington D.C. Other category winners included 3M Corporation, the Department of Housing and Urban Development, and the state of Massachusetts.

# 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.

## ■ Honda Annual Sponsorship

The American Honda Motor Co., Inc. continues to be the Aquarium of the Pacific's largest corporate sponsor. The company donated \$356,000 towards its annual sponsorship this summer, including a table sponsorship at the 2009 Ocean Conservation Awards Gala. In addition, Honda will donate a Honda Insight for the Aquarium's Honda Dream Raffle.

## ■ BP Foundation Contributes to Sea Otter Habitat

The Aquarium of the Pacific received \$250,000 from BP Foundation, the third installment of its \$1 million pledge towards the enhancement of the sea otter exhibit. The re-designed exhibit will mimic the features of the Central California coast and the habitat of the southern sea otter, the species at the Aquarium.

## ■ Solar Power Donated for Animal Care Center

An anonymous organization contributed its first pledge payment of \$125,000 to support a solar energy system for the Animal Care Center. By enhancing our state-of-the-art animal healthcare facility with photovoltaic panels, we will not only provide the highest level of care to our animals, but also serve as a model for sustainable development with the facility's planned LEED-Platinum certification.

## ■ Bernadetts Support the Animal Care Center

The Animal Care Center project received a \$100,000 gift from Aquarium members Martha Bernadett and her husband Faustino Bernadett. The new Animal Care Center will include educational programming where guests can experience close-up interaction with our animal care staff and observe the procedures and practices in aquatic veterinary medicine.

## ■ Boeing Donates to Capital Projects

The Boeing Company, a corporate supporter since the opening of the Aquarium in 1998, provided its third pledge payment of \$100,000

to support the full range of capital expansion projects at the Aquarium.

## ■ Molinas Give to the Animal Care Center

Aquarium Board Member John Molina and wife Michelle Molina contributed \$50,000 to the new Animal Care Center, which is scheduled to open in the spring of 2010. The new facility will include a 1,800-square-foot hospital and will expand the Aquarium's innovative research, teaching, and partnership opportunities in the growing field of aquatic veterinary medicine.

## ■ Water Replenishment District Supports Watershed Education

The Aquarium of the Pacific received a grant of \$50,000 this summer, completing the Watershed Replenishment District of Southern California's five-year pledge. This invaluable partnership has taught thousands of students about the importance of water conservation and watersheds. Utilizing the Aquarium's new interactive watershed exhibit and LEED-certified classroom, thousands more students will be led on a journey from the mountains to the coastal ocean this year.

## ■ Wells Fargo Foundation Supports Education Efforts

Wells Fargo Foundation granted \$50,000 towards the Education Fund, which serves more than 250,000 students and teachers each year through hands-on education classes and workshops. Part of the grant was also directed to sponsorship of the weedy sea dragon exhibit for 2009.

## ■ Bureau of Reclamation Donates \$40,000 for Drought-Resistant Garden

Recognizing that more than half of the water usage in Southern California each year is for landscaping, the Bureau of Reclamation donated \$40,000 in April 2009 for a drought-resistant garden on the Aquarium's front lawn. Aquarium visitors will see a working model of sustainable gardening and low-flow irrigation that can be adopted for their

own lawns and gardens. The gardens will provide a field site for study of botany and sustainable gardening, including free native landscaping classes sponsored by the Long Beach Water Department.

## ■ Estate of Martha Jane Workman

In May the Aquarium received a donation of \$25,000 from the late Martha Jane Workman, who had listed the Aquarium as a beneficiary of her living trust. Like most bequests, Workman's donation was directed to the Aquarium's Endowment Fund, where the funds will be saved in perpetuity with only the interest being spent each year on education and conservation programs at the Aquarium. As a charter member, Workman will be missed, and the Aquarium hopes to honor her by ensuring her generous donation will make an impact for years to come.

## ■ Farmers & Merchants Bank Donate to Capital Campaign

Farmers & Merchants Bank donated its first payment of \$25,000 towards a pledge of \$100,000 over four years. This restricted funding will support the Aquarium's ongoing capital projects.

## ■ KUD International Sponsors the 2009 Ocean Conservation Awards Gala

The Aquarium of the Pacific was honored to have KUD International as the major sponsor for the 2009 Ocean Conservation Awards Gala, contributing \$25,000 to the event. All funds raised are directed to the Aquarium's many conservation and education programs.

## ■ Los Angeles County Board of Supervisors and Don Knabe Continue Support

*Our Watersheds: Pathway to the Pacific* exhibit and environmental classroom was supported by a second pledge payment of \$25,000 by the Los Angeles County Board of Supervisors/Don Knabe. The addition of this conservation-focused exhibit illustrates the Aquarium's commitment to educating the public about environmental responsibility and sustainability.

# AQUARIUM ACCOLADES



## Poetry Contest Winner

The Aquarium of the Pacific is pleased to announce the winner of its shark poetry contest.

Saluting the Aquarium's *Shark Summer*, Aquarium members, guests, and the public were invited to participate in a poetry contest. The poets were asked to express their feelings about sharks and/or rays in 200 words or less. The Aquarium wishes to thank those who submitted poems. All entries were judged by poets Will Alexander and Jeffrey Yang and Aquarium President Jerry Schubel. Four winners were selected in the categories of first place, second place, and two people tied for third place.

Following are the first-place winning haikus from poet Ellaraine Lockie.

*on Pacific coast  
shark shaped rocks protrude from sand  
high tide encircles*

*September high tide  
swallows yesterday's debris  
footprints disappear*

Lockie is a poet, essayist, and nonfiction author who lives in Sunnyvale, California with her husband, cat, and three rabbits. She loves to go back to her home state of Montana in the summers, where she stays in a prairie cabin on land that used to be her family's homestead and where she keeps her horse, Sadie. She has two grown daughters in Los Angeles.

All of the winning poets and their poems can be found on the Aquarium's website at [www.aquariumofpacific.org/sharksummer/poetry\\_contest](http://www.aquariumofpacific.org/sharksummer/poetry_contest). To hear the winning entries and meet the first place winner, please join us at the coffeehouse poetry reading by Will Alexander on Wednesday, October 21 at 7:00 p.m.

### THUMS Long Beach Company and Occidental Petroleum Corporation Give to Cesar Chavez Elementary School Partnership

A long-time funder of the Cesar Chavez Elementary School Partnership, THUMS Long Beach Company and Occidental Petroleum Corporation donated \$25,000 in June to support ocean science literacy for underprivileged K-5 students at a local Title I school.

### Ahmanson Foundation Supports Marine Science Academy Partnership

The Aquarium is entering its second year of partnership with St. Anthony High School on the Marine Science Academy program. St. Anthony High School received a \$25,000 grant from the Ahmanson Foundation to build a biology laboratory for the Marine Science Academy. The Aquarium is pleased to bring its marine science educators to the school to lead in the instruction of marine biology.

#### EXECUTIVE OFFICERS

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PRESIDENT AND CEO

**MR. DAVID KANE**  
CFO

**MS. BARBARA LONG**  
CORPORATE SECRETARY

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AQUARIUM BOARD OF DIRECTORS

## AQUARIUM ACCOLADES



Dr. Jerry R. Schubel, president, Aquarium of the Pacific; Irmelin DiCaprio, president, The Leonardo DiCaprio Fund; Eisuke Tsuyuzaki, VP of corporate development, Panasonic Hollywood Laboratory; Jenifer Austin Foulkes, business product manager, Google Earth and Maps; Mario Molina, chairman, Aquarium of the Pacific and president, Molina Healthcare

The Aquarium's Gala raised over \$300,000 while celebrating each of its honorees and their respective contributions. The Aquarium also congratulates its Heritage Award recipients and Aquarium Scholars.

### 2009 Ocean Conservation Awards

Our 2009 Ocean Conservation Awards Gala was a success by raising more than \$303,000 for the Aquarium, while bringing together more than 350 guests to celebrate the union of arts, science, and technology. The honorees were the Leonardo DiCaprio Foundation, the Ocean in Google Earth, and Panasonic Corporation. Representatives of each organization spoke about the work of the Aquarium of the Pacific in relation to their own company's efforts for the environment. Save the date for next year—Saturday, June 12, 2010.

### Aquarium Scholars

In celebration of its 10th anniversary, the Aquarium honored 10 Long Beach students who had shown outstanding efforts in the areas of science, environment, ocean science/marine biology, promoting cultural diversity, and exceptional community service. Below are each of the scholars, one chosen each month from August 2008 through May 2009. Podcasts and news articles can be found on the Aquarium website ([www.aquariumofpacific.org](http://www.aquariumofpacific.org)) for more information on the winners.

- Johnnie Alexis Eagan - August 2008*
- Zacharie Michael Arellano - September 2008*
- Simmie Sims - October 2008*
- E'mon White - November 2008*
- Juan Lopez - December 2008*

- Brendon Thompson - January 2009*
- Abram Adams Marvel - February 2009*
- Chansopary Karen Soum - March 2009*
- Symphony Warner - April 2009*
- Brent Maxwell Ward - May 2009*

### Alex Tekurio | Heritage Award

In June Alex Tekurio received the Aquarium's Heritage Award for his dedicated service to the Pacific Islander communities of Southern California. Tekurio and his wife Tanya founded the Polynesian dance studio Hitia O Te Ra, which translates to Rising of the Sun, in 1980 in Garden Grove. Through teaching and performing the dances and music of the islands, Tekurio preserves Polynesian tradition.

### Johnnie Alexis Eagan | Young Hero Award

At the Día del Niño festival, the Aquarium honored Johnnie Alexis Eagan as its 2009 Young Hero of the Year. The 11-year-old student volunteers in many capacities, such as helping to feed the homeless in our surrounding community or raising funds for an orphanage in Ecuador. The Aquarium recognizes Eagan for her commitment to helping people and her dedication to making a difference.

## TRUSTEES OF THE PACIFIC

A special thanks to the following individuals who serve as the Aquarium's Trustees of the Pacific.

Trustees are generous donors who also volunteer their time and expertise in support of the Aquarium's mission and vision.

- Mary Jane Adams*
- Doug and Holly Carpenter*
- Esther Chao*
- Donald and Sally Clark*
- Frank and Michelle Colonna*
- John Crochet*
- Jose and Brigitte Collazo*
- Dominic and Margaret DeCristofaro*
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- John and Vickie Dupuy*
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- Kurt Schulzman and Richard Neri*
- John and Patricia Shadden*
- Bill and Melody Simmons*
- Jeanne Sleeper*
- Ken Walker*
- Bill Waterhouse*
- Charles Wilmot*

# Landscaping for Drought

Drought-resistant landscaping can reduce your home's water bill by up to 70 percent.

A new garden on the Aquarium's front lawn will feature drought-resistant plants, including California natives. The goal is to "plant a seed" for guests: A garden with drought-resistant plants helps to conserve freshwater resources.

**C** **ALIFORNIA is in its third year of drought, and 2010 is expected to continue to be dry.** Our current use of water in Southern California is not sustainable. One significant way for individuals to help is to conserve water by being "low-flow" consumers. If you have a yard or garden, chances are that 70 percent of the water you use is for your grass, plants, and trees. You can make a difference towards reducing our water deficit by having a water-wise yard and garden. For those that do not use water for landscaping, taking shorter showers, turning off the faucet while brushing your teeth or scrubbing dishes, and fixing leaky faucets are important ways to reduce water usage.

The Aquarium will soon be able to inspire its guests with an example of a garden that requires minimal water. Thanks to a grant of \$40,000 from the Bureau of Reclamation, the Aquarium is planting a 2,400-square-foot drought-resistant garden on its front lawn. The area will feature both drought-resistant and California native plants that will thrive and look beautiful with low-water irrigation techniques and potable water. An extension of the *Our Watersheds: Pathway to the Pacific* exhibit, the new garden will illustrate a solution to a serious water conservation issue in California. The drought-resistant garden will feature interpretive signage so that visitors can learn about the plants and find out how to use drought-resistant flora in their own.

If you have a lawn to maintain, there are many ways you can minimize the amount of water you need. Watering your garden before 8:00 a.m. reduces evaporation and can save as much as 25 gallons each time. Check your sprinkler system frequently and adjust the

sprinklers so that only your lawn is watered, not the house, sidewalk, or street. Smart sprinkler controllers can also be a good investment, as they schedule watering times and adjust the watering based on automatic weather updates. Saving 30-70 percent of the landscape watering bill would eventually recoup the cost of the initial investment in such a product. Another suggestion is to put a layer of mulch around trees and plants to reduce evaporation and improve the soil.

Using drought-resistant plants and California natives in your garden can help with water shortages and the complications of runoff. Wherever possible, it is important to take actions to reduce our water consumption to protect our limited freshwater resources in arid Southern California.

To learn more about water conservation and watersheds, please visit the Aquarium of the Pacific's website at [www.aquariumofpacific.org/exhibits/our\\_watersheds](http://www.aquariumofpacific.org/exhibits/our_watersheds). You will find a number of education tools here, such as an interactive version of the exhibit. You will be able to test your water knowledge and create your own green garden. Another good resource is The Metropolitan Water District's Be Water Wise website ([www.bewaterwise.com](http://www.bewaterwise.com)), which contains a lot of information on how to cut water consumption. The Long Beach Water website ([www.lbwater.org/conservation/consgarden.html](http://www.lbwater.org/conservation/consgarden.html)) also has a wealth of information on water conservation, a garden guide, rebates, an interactive tool to find water savings in your home, and a schedule of landscaping classes. Some of the landscaping classes offered by Long Beach Water take place at the Aquarium of the Pacific in the Watershed Classroom.



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