

PACIFIC CURRENTS

MEMBER MAGAZINE OF THE AQUARIUM OF THE PACIFIC



MEET OUR NEW
PENGUINS



EXPLORE THE URBAN OCEAN THIS SUMMER



This summer the Aquarium will again highlight Southern California's urban ocean through a festival, cruises, and the chance for public input on the future of the urban ocean.

SOUTHERN CALIFORNIA has one of the most distinctive stretches of coast and ocean. In this region, industry, recreation, and wildlife all coexist in relative harmony in a delicate and dynamic balance. Through proper management we can have rich and productive coastal and ocean ecosystems and accommodate additional uses by humans that will provide good jobs and benefit the economy. One powerful tool for accomplishing this is called coastal and marine spatial planning, which allocates human uses to spaces that minimize conflict with marine life. California has the scientific expertise and the ocean ethic that could create a model for urban oceans around the world.

In celebration of this unique region, the Aquarium's third annual Urban Ocean Festival will be held May 5 and 6 from 9:00 a.m. to 5:00 p.m. each day. Visitors will learn more about the marine life and human uses of the Southern California urban ocean. The festival will feature prize-winning urban ocean art and poetry, live music, live painting demonstrations, and the second annual Trashin' Fashion show and contest featuring clothing made from recycled materials often found along our coastline and on our beaches.

During the festival visitors can participate in painting a mural on the front plaza. Inside the Aquarium, visitors can look for special signs highlighting animals and exhibits that relate to urban ocean habitats. The Aquarium's Seafood for the Future team will conduct cooking demonstrations and pass out samples of sustainable seafood. Activities for children include crafts and games.

The festival kicks off the Aquarium's series of Urban Ocean Cruises, which tour portions of the port complex, allowing passengers glimpses of maritime and railyard shipping operations, oil islands, and other commercial activity as well as the marine mammals, seabirds, and other wildlife that make their homes in the Long Beach urban ocean. The first cruise sets sail on Sunday, May 6 at 4:00 p.m. A special Urban Ocean Poetry Cruise will set sail on Saturday, May 5 at 4:00 p.m.

The public will have the opportunity to contribute input on the future of the urban ocean for an upcoming Aquatic Forum that the Aquarium will host in July. Aquarium President and CEO Jerry Schubel and Dr. James Fawcett, professor of public policy at the University of Southern California, will be leading a discussion among ocean experts, policymakers, and a diverse group of stakeholders to develop potential scenarios for the Southern California urban ocean in the year 2050. These scenarios will be based on the interplay of various actions by humans with changes in the oceanography of the Southern California Bight, which extends from Santa Barbara to Baja California, Mexico. Predetermined factors like estimated rates of population growth and sea level rise will be taken into account, as will driving forces like climate change, environmentalism, and the economy. The forum will also examine the critical uncertainties, like decisions made by government, that would affect the ocean and its use by humans. Public input will be gathered via the Aquarium's Twitter account and Facebook page and incorporated in the forum. To provide your input, follow us on Twitter (@AquariumPacific) and Facebook (www.facebook.com/aquariumofthepacific). Look for the call for public input in May and June.

THE URBAN OCEAN: WORLD PORT AND SEALIFE CRUISE

MAY 6, JUNE 16, JULY 14, AUGUST 11, SEPT. 1
4:00 P.M.-6:30 P.M.



Join us on a double-decker yacht as we explore one of the most distinctive sections of our coastline and experience the wonders of the Southern California urban ocean.

COST | Members: \$26.95/adult, \$8.95/child. Non-members: \$39.94/adult, \$15/child (includes Aquarium admission)

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



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

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

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MEMBERSHIP OFFICE HOURS
8:00 a.m.-5:30 p.m. daily



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.

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CORRECTION
It was incorrectly stated in the last issue that the Aquarium's American Kestrel is being trained for free-flight demonstrations. Other birds in the Aquarium's collection are undergoing this training.

COVER: ANDREW REITSMAN



Aquarium Founding Sponsor

LETTER FROM THE CEO

DEAR MEMBERS,

I AM VERY PLEASED to announce the opening of a new permanent exhibit at the Aquarium of the Pacific: the **June Keyes Penguin Habitat**. More



than a dozen Magellanic Penguins will make their home in this exhibit, giving us the opportunity to share their stories with the public and help dispel some of the misconceptions about penguins.

One of those misconceptions is that all penguins live on ice and snow in Antarctica. In fact, most of the world's penguins never see ice and snow. Ten out of the seventeen penguin species actually live in temperate regions, like our Magellanic Penguins, which are native to South America. You can read more about the range and variety of the world's penguin species on page 6.

The group of penguins that will live in our new exhibit came to us from several different places. Some were born and raised in facilities accredited by the Association of Zoos and Aquariums as part of their Species Survival Program (SSP). Others were rescued from the coast of Brazil, where they were stranded outside their normal range. The Aquarium plans to create a breeding colony of Magellanic Penguins to maximize genetic diversity of populations of penguins in the SSP. The penguins from Brazil are especially valuable to the program because, as wild birds, they will increase the genetic diversity of Magellanic Penguins in zoos and aquariums. The SSP is coordinated and monitored to track the penguin gene pool to ensure genetic diversity, and thus, a healthy population. Our penguins have started pairing up, preening each other and selecting mates, so we are hopeful that successful breeding will take place in the coming years.

It is also our aim to educate our visitors about the threats penguins face in the wild. Penguins are well adapted to survive and thrive in their environments. But their environments are experiencing rapid changes. Overfishing, habitat loss, ocean pollution, and climate change are all having impacts on penguin populations around the world. Will we be able to slow these changes in time? If we act now, we can make great strides toward protecting penguins and their habitats.

I hope you will join us for special member previews of the new exhibit on May 14, 15, and 16. The exhibit opens to the public on May 17, and we have added to our offerings early morning hours for members, as well as penguin encounters, so you will have several opportunities to see these charismatic birds up close. Please join us in welcoming the Magellanic Penguins to their new home.

Thank you for your ongoing support.

Sincerely,

Jerry R. Schubel

MEET THE MAGELLANIC PENGUINS!



While it's difficult to distinguish one Magellanic Penguin from another, Aquarium visitors will be able to tell who's who by looking at the penguins' color-coded and name-labeled ID tags on their wings.

HERE YOU CAN READ ABOUT the various personalities and behaviors that are becoming apparent amongst the members of our flock. By the time the June Keyes Penguin Habitat opens on May 17, a few more penguins will have joined the group. Penguins of all species can be a lot like people—we see a lot of ourselves in their behavior. At the Aquarium, our penguins' poolside antics can be a bit like a soap opera!



Avery "The Teenager"

HOMETOWN **Niteroi, Brazil**
ID TAG **white/white/black**

Avery is a very mellow, mild-mannered, young male penguin, but he does have one thing he's particular about: eating. Unlike the other penguins, Avery does not like to eat fish straight from his human trainer's hand. Instead, he will take fish from his feeder and then drop it on the ground to reposition it. He has paired up with Kate, but may have to compete with Robbie for her affections as time goes on! Avery is often the first penguin to play with a new toy or come to a trainer's hand in the water.



Roxy "The Independent One"

HOMETOWN **Niteroi, Brazil**
ID TAG **white/white/orange**

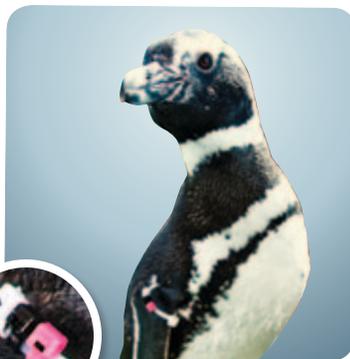
Roxy is a younger female penguin and she likes to be first, especially when it comes to feeding time. Other than that, her personality is pretty relaxed. While she likes to hang around with Robbie and feed first with Whatever, she is the only female who hasn't paired up with a male. Her trainers say she likes her fish heads to be facing to the right for her to eat them.



Robbie "The Brave One"

HOMETOWN **Niteroi, Brazil**
ID TAG **white/white/blue**

Robbie is the penguin who is most comfortable around humans. When he arrived at the Aquarium, he had a foot infection and received medical treatment at the Molina Animal Care Center. He has been heroically tolerant and brave through a lot of discomfort, garnering the love and admiration of the Aquarium staff. Now that he is healthy, he is enjoying life eating large amounts of capelin and playing in the water with everyone else.



Kate "The Flirt"

HOMETOWN **Niteroi, Brazil**
ID TAG **white/black/red**

Kate is the flirtatious female of the bunch. She has paired up with Avery and will follow him around, but Robbie is also interested in her. She loves to catch fish in the water and do speed swims around the water tank. Her trainers call her a "flighty southern belle."



Noodles "The Bruiser"

HOMETOWN **Bay Area, California**
ID TAG **NOODL**

Noodles is a bit shy and hesitant around humans. He takes his food all at once and then runs back into the water. He's also a bit noisy and gets very vocal at times. He's a strong chunky guy with a very strong bite. Despite his powerful bite, Noodles doesn't seem to challenge the other males much, but trainers are curious how things will shake out during nesting season.



Whatever "The Bold One"

HOMETOWN **Bay Area, California**
ID TAG **WHATE**

The penguin with an unusual name, Whatever is a female with a bold, independent streak. She is always one of the first penguins to the feed and will push the males out of the way to get food. She likes to figure out a good route to get places without depending on blindly following the others. Whatever is head-over-heels in love with Shim, her mate. The penguin trainers say the two seem strongly bonded.



Shim "The Big One"

HOMETOWN **Bay Area, California**
ID TAG **SHIM**

Shim is the largest penguin in the group. Sometimes he's vocal and will stretch out his neck to get food over others, but other times he tends to yield to the other penguins in the pool and at the food bucket. Around humans, he is quite shy, nervous, and very selective about which humans he will tolerate. Shim and Whatever are paired up, and they can be heard singing duets sometimes (if it can be called singing).



Patsy "The Shy One"

HOMETOWN **Bay Area, California**
ID TAG **PATSY**

Patsy is one of the female penguins and on the smaller side. At first she used to wait for the others to eat before getting food, but now that she's warmed up to her human trainers, she is bolder. However, she still likes her fish to be given in a certain way or she won't eat them. She also likes the water flume in the swimming pool. Her trainers call her an odd little gal with a distinctive face. She seems to have taken a liking to Noodles.

PENGUINS

FROM SOUTH AMERICA TO THE SOUTH POLE



DEE BOERSMA/PENGUINSTUDIES.ORG



DEE BOERSMA/PENGUINSTUDIES.ORG



DEE BOERSMA/PENGUINSTUDIES.ORG

"It is easy to think of many penguin activities in human terms. They fight with their neighbors; steal from each other; quarrel with their wives but also give them gifts of rare stones; divide chores between mates, sometimes quite unevenly; often take good care of the kids but sometimes neglect or even kill them; are frequently true, in their fashion, to mates but sometimes have affairs and often are, in effect, divorced and remarried; play games; shout; make messes—the list could be prolonged."

—George Gaylord Simpson,
Penguins—Past and Present, Here and There

PENGUINS ARE FOUND ON FOUR CONTINENTS IN THE SOUTHERN HEMISPHERE AND LIVE IN REGIONS THAT RANGE FROM THE COLD AND ICY ANTARCTIC TO THE WARM AND TEMPERATE SHORES OF SOUTH AFRICA AND THE GALÁPAGOS ISLANDS.

LEARN ABOUT THE VARIETY OF THE WORLD'S PENGUINS AND MEET MAGELLANIC PENGUINS AT OUR NEW EXHIBIT OPENING MAY 17.



PEOPLER HAVE HAD A LONG-STANDING FASCINATION with penguins' human-like behaviors. We use penguins in ad campaigns and as characters in popular films. We look at their black and white coloration and see a tuxedo. But the pattern of their plumage is not just decorative and their behaviors are not just for show; they are some of the many adaptations that have allowed penguins to survive and flourish. While there are similarities among penguin species, their behaviors and biology vary depending on a number of factors, including the regions where they live.

When we think of penguins, we often picture ice and snow. But only a few species of penguins live in Antarctica and withstand that continent's coldest temperatures. Most penguins in the world—ten out of seventeen species—live in temperate areas and never see ice or snow. Penguins have existed on Earth for more than 50 million years, and over that time they have adapted to living in many regions of the Southern Hemisphere. They live along the coasts of South America, Africa, Australia, New Zealand, and Antarctica as well as on surrounding islands, including the Galápagos off the coast of Ecuador, where the northernmost penguins live.

Penguins at Sea

Penguins spend most of their lives out at sea searching for their favorite foods, including fish, squid, and krill. They depend on the cold, nutrient-rich ocean waters that carry vast schools of anchovies and krill.

Penguins are birds, and they have feathers and lay eggs. But unlike most other birds, they cannot fly. While flying birds are lightweight, penguins have thick, heavy bones, allowing them to dive and swim underwater. Their wings are more like flippers that are adapted to help penguins “fly” through the water. The torpedo-like shape of their bodies and their feathers help them swim rapidly. They have three hundred times more feathers than flying birds of the same size, with a layer of down that traps air for insulation and an outer layer

of feathers that can lock together to form a water-tight covering. Their feathers also help control the penguin's body temperature. They spend up to three hours a day preening to ensure that the feathers are clean.

So why are penguins black and white? This adaptation is a kind of camouflage called counter-shading, which makes it harder for both their predators and their prey to see them. When penguins are in the water, their white chests camouflage them from being seen from below against the lighter sky. From above, their black backs help them blend in with the darker blue ocean waters. In the ocean, penguins' predators include seals, sea lions, and killer whales.

King and Emperor Penguins, the largest species, are the deepest divers, able to reach depths of up to 1,500 feet and stay submerged for up to twenty minutes.

Penguins on Land

Penguins come on land to raise their chicks. Some, like Little Blue Penguins, nest on shore near the sea. Others, like Emperor Penguins, travel up to 75 miles inland from the coast over Antarctic ice to reach their breeding grounds. They get there by walking and tobogganing, where they lie on their bellies and push themselves along the ground using their feet.

Once they reach the breeding grounds, penguins vocalize to recognize each other. Each penguin's voice is as distinct as a human fingerprint. Some penguins, like Magellanic Penguins, often return to the same partner, but this is not true of all penguin species. Emperor Penguins, for example, are known to have the highest “divorce” rate of all penguins.

Courtship rituals vary, but for some species they include calling, bowing, and head shaking. Once the penguins have paired up, they make a nest. Some, like Gentoo and Chinstrap Penguins, gather stones to build their nests. Others, like Little Blue Penguins, find nesting

spots in small caves or under bushes or use nest boxes that humans provide.

King and Emperor Penguins, which lay one egg, do not build nests and instead incubate their eggs on top of their feet to protect the eggs from Antarctic ice and snow. The other penguin species lay two eggs. All penguins have a brood patch, a spot of featherless skin that is used to keep eggs warm. The male and female often take turns incubating the eggs, but some species, such as Emperor Penguins, leave incubation duties entirely to the males.

Penguin chicks have a high mortality rate. In some places they starve or are eaten by seabirds and small mammals. They can also freeze to death, a risk for the Antarctic species. One parent goes out to sea to feed while the other stays at the nest with the chick. Parents feed their chicks by regurgitating partially digested food.

Penguin chicks leave the nest and their parents' care once they have fledged. This involves losing the downy feathers they hatch with and growing a full coat of water-tight feathers. Fledging usually occurs after two to four months.

Adult penguins molt their feathers after the breeding season ends and chicks have fledged. All birds lose feathers and grow new ones, but penguins have adapted to molt and regrow all their feathers at once.

Penguins go on a feeding binge to bulk up before molting. Because their feathers are not water-tight during the molt, they stay onshore and fast during the two to five weeks it takes for new feathers to grow in. During this period penguins are particularly vulnerable to predators on land. Depending on the region, penguins are hunted by foxes, leopards, and other small mammals as well as other seabirds, like gulls. Once the molt is completed, penguins are able to return to the sea and begin their travels in search of food.

Penguins can live twenty years or longer. Large penguins, like Kings and Emperors, live longer than smaller species, like Magellanic and Little Blue Penguins. However, with predators, parasites, and human activity impacting their survival, most do not reach their full potential lifespan.

Magellanic Penguins

In May the Aquarium of the Pacific is opening its June Keyes Penguin Habitat, where a group of more than a dozen Magellanic Penguins will be on permanent exhibit.

Magellanic Penguins were named after the Portuguese explorer Ferdinand Magellan, who was the first to sail from the Atlantic Ocean to the Pacific Ocean in the mid-1500s through what is now called the Strait of Magellan. A temperate species, Magellanic Penguins are usually about two to two-and-a-half feet tall and weigh between six and fifteen pounds when fully grown. Their closest relatives are the other temperate penguin species: the Galápagos, Humboldt, and African Penguins.

Magellanic Penguins build their nests during the breeding season along the rocky, sandy beaches of the southern coasts of Argentina and Chile and on the Falkland Islands. The largest colony of Magellanic Penguins, with more than 200,000 breeding pairs, is located at Punta Tombo in Argentina. If the nest has not been destroyed over the course of the year, Magellanic Penguins may use the same nest for several years. Magellanic Penguins nest in the open or under bushes and some burrow into the soil by lying on their bellies and digging with their feet. Breeding grounds may contain thousands of nests.

Many Magellanic Penguins are faithful to their partners. They nest once each year, usually laying their eggs in October. The female lays two eggs four days apart. The parents take turns incubating the eggs, lying on the nest on their bellies, and caring for the chicks once they hatch. The amount of time it takes

To learn more about Magellanic Penguins, see photos and videos from the colony at Punta Tombo in Argentina, and follow the research of P. Dee Boersma, Ph.D., visit penguinstudies.org. Dr. Boersma was involved in the development of the penguin exhibit at the Aquarium and will present a lecture at the Aquarium on June 8. To learn more about the other penguin species, visit globalpenguinso-ciety.org.



ANDREW BRET SMA

for the chicks to grow and fledge depends on the availability of food and the parents' success at foraging.

When they are at sea following the food supply, Magellanic Penguins migrate along the coasts of Argentina and Chile, reaching as far north as Peru on the Pacific side and Brazil on the Atlantic side.

These penguins can be distinguished from other temperate species by the two black stripes on their chests. Other temperate species have just one stripe. It is difficult to distinguish males from females, although adult males have thicker bills and are larger than adult females. Their vocalizations include loud braying calls that sound like a donkey as well as location calls at sea.

Magellanic Penguins are naturally curious

and have excellent eyesight. In aquariums and zoos they are known to notice new objects in their enclosures or changes made to their routines. At the Aquarium for example, the penguins are used to seeing humans wearing the Aquarium uniform and are more hesitant around a visitor in different clothing. They are amenable to some training and will follow a trainer's instructions to swim across a pool and back, for instance.

Be sure to visit the new June Keyes Penguin Habitat at the Aquarium and witness the behaviors and personalities of these penguins firsthand.

Special thanks to P. Dee Boersma for her scientific expertise in reviewing this article.



What Do You Call a Group of Penguins?

The official term for a group of penguins is a waddle, as decided at the fourth International Penguin Congress. This type of term is called a collective noun, and we use it to refer to "a gaggle of geese" or "a murder of crows." If a group of penguins is in the water, it is called a raft of penguins. A large breeding colony is called a rookery.

DEE BOERSMA/PENGUINSTUDIES.ORG

June Keyes Penguin Habitat

Visitors to the new June Keyes Penguin Habitat will be able to get up-close with Magellanic Penguins and learn what can be done to help their counterparts in the wild. This new permanent exhibit is located outdoors on the second floor near the Aquarium's ray pool. The exhibit is home to the first penguins in the Aquarium's collection and will include a crawl-in space, allowing visitors to feel as if they are in the exhibit with the animals. Exhibit panels and interactive touch screens will provide information about penguins and issues that are affecting their survival in the wild. Their new exhibit at the Aquarium will feature a rocky area and beach that resembles their natural habitat and a pool for swimming. Visitors will be able to view the penguins both above and below the water. The exhibit will also include nesting areas resembling the burrows that Magellanic Penguins use for laying eggs and rearing their chicks. Life-sized models of penguins representing other species will also be a part of the exhibit area.

Honda is helping power the Aquarium's Magellanic Penguin exhibit. By providing its "thin film" solar panels, Honda is helping the Aquarium reduce the energy needed from the grid for this exhibit. This 10.5-kilowatt system provides a reliable supply of clean energy and is the first public demonstration of Honda's solar panels in the United States. American Honda Motor Co., Inc. is a founding sponsor of the Aquarium of the Pacific.

June Keyes, wife of the late writer William B. Keyes, enjoyed a long and exemplary career as a secretary and executive assistant at Occidental Petroleum Corporation. She joined Oxy in 1979 and remained with the company for thirty-one years, until her passing in 2010. An anonymous donor contributed funds to name the Aquarium's new penguin habitat after June Keyes.

Members will be able to view the new exhibit during special early morning hours this summer. Starting May 17 the Aquarium will open thirty minutes early for members on weekends and holidays, then every day from June 20 through Labor Day.

Penguin Programs

Visitors to the Aquarium this summer will be able to learn more about penguins through new educational programming, including two short films about penguins, a children's program, and a penguin guest speaker series (see starred events on page 12). Visitors will also be able to go behind the scenes and feed a penguin while learning about these animals. This new Penguin Animal Encounter will be available by advance reservation only starting June 2. See page 14 for details.

The World's Penguins

There are seventeen species of penguins found in various regions around the world, including Antarctica, South America, Africa, Australia, New Zealand, and the islands off the coastlines of those regions.



ROBYN WASEMAN/NPS

Emperor Penguin (*Aptenodytes forsteri*)

Emperor and King Penguins make up the genus *Aptenodytes*, or the large penguins. Emperor Penguins represent the largest species of penguin, measuring up to 4 feet tall and weighing up to 90 pounds. They are found only on the Antarctic continent and are the only species that breeds during the Antarctic winter. They walk up to 75 miles inland to avoid nesting on the sea ice, which will melt before the chicks are ready to fledge. The female lays one egg and leaves it with the male, which incubates the egg on its feet for sixty-four days huddled in a large group with the other males.



DR. ROGER HEWITT/NOAA

Chinstrap Penguin (*Pygoscelis antarctica*)

Chinstrap Penguins are brush-tailed penguins, like Adélie and Gentoo Penguins. Together these three species comprise the genus *Pygoscelis*. Chinstrap Penguins are easy to identify because of the thin black stripe that encircles their faces and goes under the "chin." Chinstraps breed in very large colonies on sub-Antarctic islands and on the Antarctic Peninsula. A colony on the South Sandwich Islands boasts more than 10,000 birds. They build circular nests out of stones, preferring ice-free slopes and ridges for nesting.



ISTOCKPHOTO

Little Blue Penguin (*Eudyptula minor*)

Found in New Zealand and Australia, Little Blue Penguins are the only species in the genus *Eudyptula* and are sometimes referred to as Little or Fairy Penguins. Measuring just 12 to 16 inches in height, the Little Blue Penguin is the smallest species of penguin. They are bluish-gray in color with a white front. They nest in burrows and sometimes are able to raise two sets of chicks in one year.



ELIZABETH CRAPO/NOAA

Galápagos Penguin (*Spheniscus mendiculus*)

Galápagos Penguins are endemic to the Galápagos Islands of Fernandina and Isabela and are the world's northernmost penguins. They are classified in the same genus as Magellanic, Humboldt, and African Penguins—*Spheniscus*, also known as the wig-tailed or banded penguins. These four species all have a black band across their chests and a pattern of black spots on their white fronts that is unique to each individual. With fewer than 800 breeding pairs, their nesting grounds are protected within the Galápagos National Park.



MELANIE MASSARO/USGS

Yellow-Eyed Penguin (*Megadyptes antipodes*)

Genus *Megadyptes* includes just one species: the Yellow-Eyed Penguin, which has a yellow band around its head that encircles its pale eyes. These penguins are found in New Zealand and surrounding islands. Like the Galápagos Penguin, the Yellow-Eyed Penguin is endangered and is on the International Union for Conservation of Nature's Red List of Threatened Species. Yellow-Eyed Penguins build their nests in forest and scrub areas between bushes and grasses. They tend to be more solitary.



LIAM QUINN

Southern Rockhopper Penguin (*Eudyptes chrysocome*)

The crested penguins, or genus *Eudyptes*, include the Rockhopper, Fiordland, Snares, Erect-Crested, Royal, and Macaroni Penguins. These species all have a yellow or golden crest of feathers on their heads. Southern Rockhopper Penguins breed on sub-Antarctic and temperate islands throughout the Southern Hemisphere, building nests from sea level to cliff tops and sometimes inland.

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

GREAT AQUARIUM ACTIVITIES!

MEMBER EVENTS

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

M MEMBER PENGUIN PREVIEWS

MONDAY, MAY 14 | 10:00 a.m.-5:00 p.m.

MONDAY, MAY 14 | 6:30 p.m.-9:30 p.m. (adult night, ages 21+ only)

TUESDAY, MAY 15 | 10:00 a.m.-5:00 p.m.

WEDNESDAY, MAY 16 | 6:30 p.m.-9:30 p.m.

Preview the June Keys Penguin Habitat as the Magellanic Penguins make their debut. Learn about the penguins, their journey to the Aquarium, and how they are being cared for. Due to the popularity of this event, reservations are mandatory. Please visit www.aquariumofpacific.org/aopreviews and look for your members-only invitation in the mail for more information.

COST | Free for members. Member guests receive 20% off regular admission.

RSVP | (562) 437-FISH (3474) by May 11

M MEMBER URBAN OCEAN DINNER CRUISE

FRIDAY, JULY 13 | 6:30 p.m.-9:00 p.m.

Join us for an exclusive members-only dinner cruise on a double-decker boat as we explore our coastline while enjoying a gourmet dinner. Visit the Aquarium's website to see the menu. Guided by commentary from an Aquarium educator, learn what makes the Southern California urban ocean unique.

COST | \$57.50 per person

RSVP | (562) 437-FISH (3474) by July 6.

Reservations are required as space is limited.

M GRANDPARENT MEMBER WHALE WATCH

FRI., JUL. 20 | 11:30 a.m.-2:30 p.m. & 3:00 p.m.-6:00 p.m.

Grandparent members and grandchildren are invited to search out the magnificent blue whale on a members-only whale watch trip. Guided by an Aquarium educator, you will learn about blue whales and how they explore the nutrient-rich waters right off our coast.

COST | \$25.00 per adult; \$15 per child. Due to boat capacity, we are unable to provide tickets for member guests at this event.

RSVP | (562) 437-FISH (3474) by July 17.

Reservations are required as space is limited.

MEMBER EVENTS

M MEMBER MOVIE NIGHT

FRIDAY, AUGUST 10 | 7:00 p.m.-10:00 p.m.

Pack your picnic blankets for Member Movie Night when we transform the Aquarium's front lawn into an outdoor movie theater. Member children can also participate in games and contests. Boxed dinners will be available for purchase. Visit the Aquarium's website for more details, including the announcement of the featured movie.

COST | \$5 per member; please visit the website for guest pricing.

RSVP | (562) 437-FISH (3474) by August 7.

Reservations are required as space is limited.

M ADULT MEMBER LATE NIGHT

TUESDAY, AUGUST 21 | 6:30 p.m.-9:30 p.m.

Enjoy a relaxing summer evening touring the Aquarium after-hours while listening to live music performed at Blue Cavern. A cash bar and the Coffee Cart will be open.

COST | Free to members; member guests receive 20% off general admission.

RSVP | (562) 437-FISH (3474) by August 10.

Reservations are required.

M SENIOR MEMBER MORNING

WEDNESDAY, SEPTEMBER 12 | 8:30 a.m.-9:30 a.m.

Meet and learn about our Animal Ambassadors, like Lola the Sulfur-Crested Cockatoo, Kenai and Miki the Arctic foxes, and some of our reptiles. Breakfast pastries and beverages will be available. Please note: The animals on view during this event will be selected that morning and some of the animals listed above may not be available.

COST | Free to senior members. Due to capacity limits, we are unable to provide tickets for member guests at this event.

RSVP | (562) 437-FISH (3474) by September 9.

Reservations are required.

SPECIAL EVENTS

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

SE SHARK LAGOON NIGHTS

FRIDAYS, MAY 4, 11 & 25 | 6:00 p.m.-9:00 p.m.

Shark Lagoon is open for everyone for free after 6:00 p.m. Guests can touch and learn about sharks, and enjoy live music.

COST | Free for everyone

INFO | (562) 590-3100, ext. 0

SE MOTHER'S DAY BRUNCH

SUNDAY, MAY 13 | 10:00 a.m.-1:00 p.m.

This Mother's Day join us at the Aquarium to enjoy brunch and explore the wonders of the Pacific Ocean.

COST | Members: \$32/adult (12+), \$22/child. Non-members: \$42/adult, \$32/child

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

SE LONG BEACH SYMPHONY ORCHESTRA SOUNDS AND SPACES CONCERT

THURSDAY, JUNE 7 | 7:00 p.m.-9:00 p.m.

The Long Beach Symphony Orchestra Chamber Players will perform a concert in the Aquarium's Great Hall as part of the orchestra's Sounds and Spaces series.

COST | Free

RSVP | (562) 436-3203, ext. 244 or rsvp@lbro.org

SE DISCOUNTED LATE NIGHTS

SUNDAYS, JUNE 10-SEPT. 2 | 5:00 p.m.-9:00 p.m.

Enjoy the Aquarium with special extended hours. The entire Aquarium will be open, except Lorikeet Forest, until 9:00 p.m. General admission after 5:00 p.m. is \$14.95 for adults and seniors and \$13.95 for children (3-11).

COST | Free for members

INFO | (562) 590-3100, ext. 0

SPECIAL EVENTS
SE FATHER'S DAY BBQ
SUNDAY, JUNE 17 | 11:30 a.m.-1:30 p.m.

Celebrate Father's Day at the Aquarium's annual picnic. Touch sharks and rays with your dad, and discover cool ocean dads like seahorses and sea dragons. Tickets on sale April 25.

COST | Members: \$25/adult (12+), \$17/child. Non-members: \$35/adult, \$27/child, includes admission

RSVP/INFO | (562) 590-3100, ext. 0



CHRIS STACIO

SE JULY 4TH BBQ
WEDNESDAY, JULY 4 | 6:00 p.m.-8:00 p.m.

Families will be able to witness the ambiance of the Aquarium at night and get a fish-eye view of the City of Long Beach fireworks display. Tickets on sale May 15.

COST | Members: \$27/adult (12+), \$19/child. Non-members: \$37/adult, \$29/child

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

SE SENIORS DAY
THURSDAY, SEPTEMBER 6 | 9:00 a.m.-5:00 p.m.

The Aquarium will open its doors for free to adults age fifty and above on this special day. Special exhibits for seniors will include booth displays by the Aquarium's education and animal husbandry departments and more.

COST | Free to those age fifty and over with a valid photo ID, free for members.

INFO | (562) 590-3100, ext. 0

SE LONG BEACH OPERA PRESENTS
GAVIN BRYAR'S PAPER NAUTILUS
FRI. & SAT., SEPT. 7-8 | 7:00 p.m.-9:00 p.m.

Long Beach Opera will premiere Gavin Bryar's opera *Paper Nautilus* in a performance in the Aquarium's Great Hall. This ocean-themed production is part of Long Beach Opera's "Outer Limits" series that features theatrical innovation and experimental storytelling.

COST | Visit the Aquarium's website for pricing.

RSVP/INFO | (562) 590-3100, ext. 0

SPECIAL EVENTS
SE CALIFORNIA COASTAL CLEAN-UP DAY
SATURDAY, SEPTEMBER 15 | 9:00 a.m.-12:00 p.m.

The public and members are invited to help Aquarium staff clean Alamitos Beach as part of the statewide Coastal Clean-Up Day. Help protect our ocean and marine life by picking up trash. Gloves and bags will be provided. Please look for the Aquarium booth to check in. No RSVP necessary.

LOCATION | Alamitos Beach, off of Shoreline and Ocean below the Villa Riviera

COST | Free

INFO | (562) 590-3100, ext. 0

SE LONG BEACH BALLET
FRIDAY-SUNDAY, OCT. 5-7 | 7:00 p.m.-9:00 p.m.

Join the Long Beach Ballet for a production inspired by the ocean and the Aquarium. This performance will capture the changing relationship between humans and the ocean, particularly along the Southern California coast.

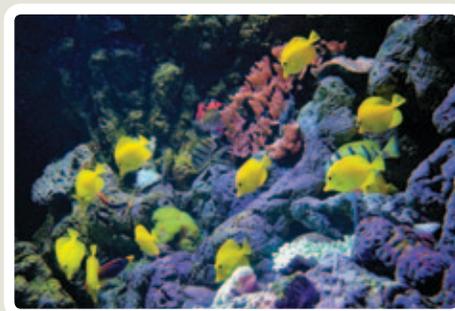
COST | Visit the Aquarium's website for pricing.

INFO | (562) 590-3100, ext. 0

SE SEA FARE
SATURDAY, OCTOBER 13 | 7:00 p.m.-11:00 p.m.

Save the date for our ninth annual Sea Fare event, which raises needed funds for our education, conservation, and animal care programs. Local restaurant chefs provide samples of sustainable seafood, desserts, and more. Tickets go on sale in July.

INFO | (562) 590-3100, ext. 0


SE PHOTO NIGHT
SUNDAY, OCTOBER 21 | 5:30 p.m.-10:00 p.m.

Professional and amateur photographers are invited to capture the Aquarium's wildlife during exclusive "photographers only" hours. Meet vendors like Canon and Tuttle Cameras, test new equipment, attend workshops, and meet other wildlife photo enthusiasts. Tickets on sale August 1.

COST | Members: \$18.95. Non-members: \$24.95.

INFO | (562) 590-3100, ext. 0

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.

SE URBAN OCEAN FESTIVAL
SAT. & SUN., MAY 5-6 | 9:00 a.m.-5:00 p.m.

Join us as we explore and celebrate Southern California's urban ocean with a weekend festival, which will include art exhibitions, mural painting, poetry readings, food, booths, and educational activities. Urban ocean boat cruises are available at an additional cost.

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

INFO | (562) 437-FISH (3474)

SE PACIFIC ISLANDER FESTIVAL
SAT. & SUN., JUNE 2-3 | 9:00 a.m.-5:00 p.m.

Watch hula performances, listen to Tahitian drumming, try out ancient Hawaiian games, enjoy island cuisine, and admire artisans as they create traditional weavings at the ninth annual Pacific Islander Festival.

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

INFO | (562) 437-FISH (3474)

SE MOOMPETAM
SAT. & SUN., SEPT. 22-23 | 9:00 a.m.-5:00 p.m.

In celebration of the local Native American cultures, the Aquarium will host its eighth annual Moompetam Festival. This weekend celebration will feature traditional crafts, storytelling, music, and dance celebrating the indigenous California Indian maritime cultures, including Tongva, Chumash, and more.

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

INFO | (562) 437-FISH (3474)

SE BAJA SPLASH CULTURAL FESTIVAL
SAT. & SUN., SEPT. 29-30 | 9:00 a.m.-5:00 p.m.

The Aquarium will host its eleventh annual Baja Splash Cultural Festival featuring live entertainment, crafts, ethnic cuisine, and cultural displays. Guests can also learn more about the animals of Baja, Mexico.

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

INFO | (562) 437-FISH (3474)

SE SOUTHEAST ASIA DAY
SATURDAY, OCTOBER 6 | 9:00 a.m.-5:00 p.m.

The Aquarium will celebrate its eighth annual Southeast Asia Day highlighting the cultures of Cambodia, Thailand, Vietnam, Myanmar, Laos, and Indonesia. Guests will enjoy live music and dance, crafts, and ethnic cuisine.

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

INFO | (562) 437-FISH (3474)

GUEST SPEAKERS

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

65 WAYNE TRIVELPIECE | Penguins as Sentinels for Climate Change*

WEDNESDAY, MAY 9 | 7:00 p.m.

Wayne Trivelpiece will link increasing temperatures and decreasing sea ice cover in the Antarctic Peninsula region to declines in krill and Adélie and Chinstrap Penguin populations. He will also discuss findings suggesting that predator populations, already at risk from climate-driven changes in the food web, are under increasing pressure from recovering whale and seal populations and outdated fisheries quotas. Trivelpiece is a wildlife biologist with the Antarctic Ecosystem Research Division of the National Oceanic and Atmospheric Administration's Southwest Fisheries Science Center.

65 LINDA MCDERMOTT | Antarctica: Living at the Harshest Place on Earth*

TUESDAY, MAY 22 | 7:00 p.m.

Travel to the coldest, windiest, harshest, driest place on Earth with Linda McDermott, who worked at McMurdo and South Pole Stations in Antarctica during two recent summer seasons. In her lecture, McDermott will share historic, scientific, and environmental information about working and living in Antarctica, as well as stories of her unique experiences. McDermott worked in Antarctica as a human resources and finance specialist for Raytheon Polar Services Company.



65 P. DEE BOERSMA | The Penguins of Patagonia*

FRIDAY, JUNE 8 | 7:00 p.m.

For twenty-eight years P. Dee Boersma, Ph.D. has studied the largest Magellanic Penguin colony in the world at Punta Tombo, Argentina. She will share stories of the lives of Magellanic Penguins in the deserts of Patagonia and discuss some of the more impressive penguin facts. Dr. Boersma is the Wadsworth Endowed Chair in Conservation Science in the University of Washington's department of biology. She is also the honoree at the Aquarium's 2012 Ocean Conservation Awards event.

GUEST SPEAKERS

65 SETH NEWSOME | Using Chemistry to Study Marine Mammal Diets

THURSDAY, JUNE 14 | 7:00 p.m.

Differences in diet among individuals of the same species is increasingly recognized as an important component of diversity in food webs. Seth Newsome will discuss a chemical approach to quantifying patterns of individual dietary specialization in a wide range of marine and terrestrial mammalian carnivores, including sea otters, pinnipeds, and canids. Dr. Newsome is a research scientist in the zoology and physiology department at the University of Wyoming.

65 MARK PLOTKIN | Rainforest Conservation and the Search for New Jungle Medicines

WEDNESDAY, JUNE 20 | 7:00 p.m.

Mark Plotkin has spent much of the past thirty years working with medicine men and women of the rainforests. Dr. Plotkin and the Amazon Conservation Team are working with these healers to protect the rainforests and their healing secrets. Dr. Plotkin is an ethnobotanist and the author of several books, including *Tales of a Shaman's Apprentice* and *Medicine Quest: In Search of Nature's Healing Secrets*. He will be signing copies after the lecture. He is the president of the Amazon Conservation Team, a nonprofit organization he founded in 1996.

65 DAVID SALOMON | Penguin-Pedia*

THURSDAY, JUNE 28 | 7:00 p.m.

David Salomon began compiling his *Penguin-Pedia* after a trip to Chilean Patagonia that inspired his interest in penguins. He spent two years flying to the Falkland and Galápagos Islands, Australia, Africa, Argentina, and Peru to document the world's penguins. Salomon is a photographer, author, and real estate developer from Dallas, Texas. Copies of *Penguin-Pedia* will be available for sale after his lecture, and he will be signing copies.

65 JERRY SCHUBEL | Unlocking the Potential of the Southern California Urban Ocean

THURSDAY, JULY 12 | 7:00 p.m.

The Southern California Bight is home to 20 million people. By 2050 the number will increase by 25 percent. The increased population will experience a higher sea level, more destructive coastal storms, a reduced supply of potable water, competition from other West Coast seaports, and diversion of trade through the enlarged Panama Canal. The list of potential threats is long, says Aquarium President and CEO Jerry Schubel. But, he explains, with vision, and proper planning

GUEST SPEAKERS

and follow-through, the Southern California Bight can have a glorious future that includes healthy and productive coastal and ocean ecosystems, access to clean beaches and coastal waters, diverse and abundant marine life, and new and expanded ocean industries that stimulate local and regional economies.

65 GINGER REBSTOCK | Magellanic Penguins: Wildlife Spectacles and Long-Term Studies*

THURSDAY, JULY 19 | 7:00 p.m.

The Penguin Sentinels project, a joint endeavor of the University of Washington and the Wildlife Conservation Society, is a long-term study that has followed the world's largest breeding colony of Magellanic Penguins at Punta Tombo, Argentina since 1983. Ginger Rebstock, a research scientist with the University of Washington, will share her experiences living with half a million penguins and detail what has been discovered about penguin life over the study's twenty-nine years.

65 BILL NYE, MAT KAPLAN & JERRY SCHUBEL | Planetary Radio: Space Exploration Radio Series Brings Bill Nye the Science Guy to the Aquarium

SATURDAY, JULY 21 | 9:00 a.m.

The Aquarium of the Pacific will host the Planetary Society for its weekly radio show, Planetary Radio Live, which features an interview with a guest scientist. Co-founded more than thirty years ago by Dr. Carl Sagan, the Planetary Society is now headed by celebrity science educator and engineer Bill Nye the Science Guy. Nye will join host Mat Kaplan for a talk with Aquarium President and CEO Jerry Schubel and an expert on the seas deep beneath layers of ice in places like Jupiter's moon Europa. Could life be thriving in these hidden waters? Guests will also enjoy live music and a chance to win prizes in the "What's Up" space trivia contest. This lecture is free to the public.

65 LANCE ADAMS, DAN LAWSON, HUGH & PAM RYONO | Green Sea Turtles and the San Gabriel River

WEDNESDAY, AUGUST 8 | 7:00 p.m.

Endangered green sea turtles are regularly spotted near the mouth of the San Gabriel River in Long Beach. Since 2008 Aquarium volunteer and blogger Hugh Ryono, together with his wife Pam, has been conducting informal surveys of the turtles, observing the numbers of turtles in the area and assessing their size and health. Ryono will share his latest photos during the lecture. Also, the Aquarium's Veterinarian Dr. Lance Adams will share stories of his participation in rehabilitating and satellite-tagging injured sea turtles from the San Gabriel River.



MAY 9: SENTINELS FOR CLIMATE CHANGE



JUNE 28: PENGUIN-PEDIA

GUEST SPEAKERS

65 JAY HOLCOMB | *Rehabilitating Oiled Penguins During the Treasure Oil Spill in South Africa**

THURSDAY, AUGUST 16 | 7:00 p.m.

The largest oiled wildlife rescue and rehabilitation effort ever mounted took place in 2000 in South Africa when an iron ore ship, the *Treasure*, sank between the two largest breeding islands for African Penguins. Over the ensuing week 40,000 penguins were collected and half were oiled. International Bird Rescue took a lead role in the management of the rescue team. Jay Holcomb managed the rehabilitation facility that cared for 15,000 penguins. Ninety-five percent of the penguins were eventually released back into the wild. In his lecture, Holcomb will discuss the rehabilitation process, explaining how changing protocols to fit the situation changed the course of this disaster recovery. Holcomb is the executive director of International Bird Rescue.

65 MARK JACKSON | *The Science and Service of Fire Weather*

THURSDAY, SEPTEMBER 6 | 7:00 p.m.

On average, fires in Southern California scorch more than 100,000 acres each year. When hot and dry Santa Ana winds combine with critically dry vegetation, the potential for large and destructive wildfires dramatically increases. Mark Jackson will discuss how the National Oceanic and Atmospheric Administration's (NOAA) National Weather Service partners with its area fire agencies to respond to this threat and minimize its impacts. He will also discuss how climate change might affect wildfire trends in the western United States. Jackson is the meteorologist in charge with NOAA's National Weather Service in Oxnard, California, serving Los Angeles, Ventura, Santa Barbara, and San Luis Obispo Counties.

* Penguin event

GUEST SPEAKERS

65 MADDALENA BEARZI | *Dolphin Confidential: Confessions of a Field Biologist*

WEDNESDAY, SEPTEMBER 12 | 7:00 p.m.

Author and marine biologist Dr. Maddalena Bearzi will share stories from her new book *Dolphin Confidential: Confessions of a Field Biologist*. Dr. Bearzi will take attendees inside the world of a marine mammal field scientist. She will offer a firsthand understanding of cetacean behavior, as well as the frustrations, delights, and creativity involved in dolphin research. In her book, Dr. Bearzi presents a look into her studies on the metropolitan bottlenose dolphins of California, as well as dolphin social behavior and intelligence.



C. SWELAN

65 DEAN WENDT | *Managing California's Ocean Resources: A Case Study Involving Scientists, Managers, and Fishermen*

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

California recently completed the designation of a new network of marine protected areas (MPAs) along its 800-mile coastline. The process has been heralded as a landmark event in marine resource management and conservation. Dean Wendt will discuss the benefits of having fishermen participate in scientific research and how the data collected by scientists and fishermen are being used to improve fisheries management for California and the nation. Wendt is a professor and acting director at the Center for Coastal Marine Sciences at California Polytechnic State University, San Luis Obispo.

GUEST SPEAKERS

65 DONALD PROTHERO | *Catastrophes: Earthquakes, Tsunamis, Tornadoes, and Other Earth-Shattering Disasters*

TUESDAY, OCTOBER 2 | 7:00 p.m.

Huge natural disasters—from earthquakes, tsunamis, and volcanic eruptions to floods, tornadoes, hurricanes, and blizzards—have had a profound effect on human history and civilization, often in surprising ways. According to Donald Prothero, humans have an unrealistic and irrational reaction to these natural disasters and fear the ones that are least deadly while taking for granted those that are the most likely killers. Prothero is senior paleontologist at ArchaeoPaleo Environmental Management, Inc. Previously he was a professor of geology at Occidental College in Los Angeles and lecturer in geobiology at the California Institute of Technology in Pasadena.

65 RICHARD L. JAMES | *Amazing Butterflies: Nature's Gift to Us*

TUESDAY, OCTOBER 9 | 7:00 p.m.

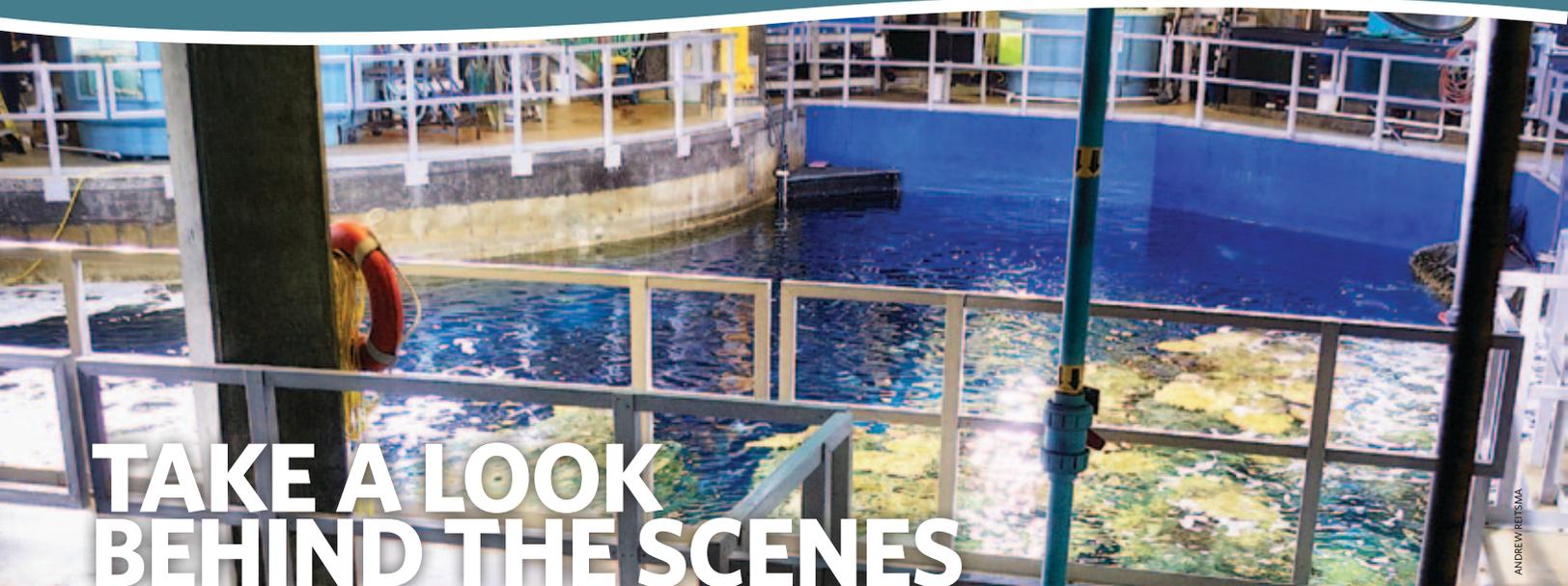
How do butterflies know which plants to lay their eggs on? How do butterflies avoid predators? How is a butterfly's vision different from that of a human? Learn more about monarch and other butterfly species from Richard L. James, a naturalist at Long Beach's El Dorado Nature Center. James has been involved with native plant restoration efforts at the nature center since 2004, and conducts an annual butterfly count for the North American Butterfly Association and monthly counts for the Irvine Ranch Conservancy in Limestone Canyon.

COST | Free for members, teachers, seniors 62+, and students with valid ID and advanced reservations. \$5/non-members.

INFO | (562) 437-FISH (3474)

Guest speaker sponsor:





TAKE A LOOK BEHIND THE SCENES

ANDREW RETSMA

AQUARIUM TOURS

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

AT BEHIND-THE-SCENES TOURS

DAILY | *times vary*

Explore how we re-create habitats for animals while gaining access to behind-the-scenes areas. Feed our tropical fish, learn about animal care, and discover what it takes to run a world class aquarium.

COST | \$14.50/member | \$18/non-member
does not include Aquarium admission

AGES | 7+ years

LENGTH | one hour

GROUP SIZE | maximum 10 participants

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

AT ANIMAL ENCOUNTERS

THURS.-FRI. & SAT.-SUN. | *see times below*

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

THURS. & FRI. | *Penguins* 8:00 a.m.-10:00 a.m.

SAT. & SUN. | *Seals & Sea Lions* 9:30-11:30 a.m. | *Sharks* 12:30-2:30 p.m. | *Sea Otters* 2:45-4:45 p.m.

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

AGES | 10+: *Seals & Sea Lions, Sea Otters, and Penguins*
13+: *Sharks*

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

RSVP | (562) 951-1630

AQUARIUM SLEEPOVERS

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

SL BIRTHDAY PARTY SLEEPOVER

BASED ON AVAILABILITY | 5:00 p.m.-7:00 a.m.

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

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

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

THEMES | *Sharks, Marine Mammals, or Turtles*

GROUP SIZE | 20-50 participants

RSVP | (562) 951-1630

SL ADULT SLEEPOVER

BASED ON AVAILABILITY | 6:00 p.m.-9:00 a.m.

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

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

AGES | 18+ years

GROUP SIZE | 20-60 participants

RSVP | (562) 951-1630

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

AGES | 5+ years, plus adult chaperone

GROUP SIZE | 20-60 participants

RSVP | (562) 951-1630

SL SUMMER FAMILY SLEEPOVER

FRIDAY, JULY 27 | 5:00 p.m.-7:00 a.m.

Grab your sleeping bag and prepare for an adventure this summer at the Aquarium with your family! Participate in a scavenger hunt, touch marine animals, and paint your very own souvenir T-shirt. Included in your sleepover will be a pizza dinner, light snack, and cereal breakfast. Space is limited so sign up today.

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

AGES | 5+ years, plus adult chaperone

RSVP | (562) 951-1630

SL HALLOWEEN FAMILY SLEEPOVER

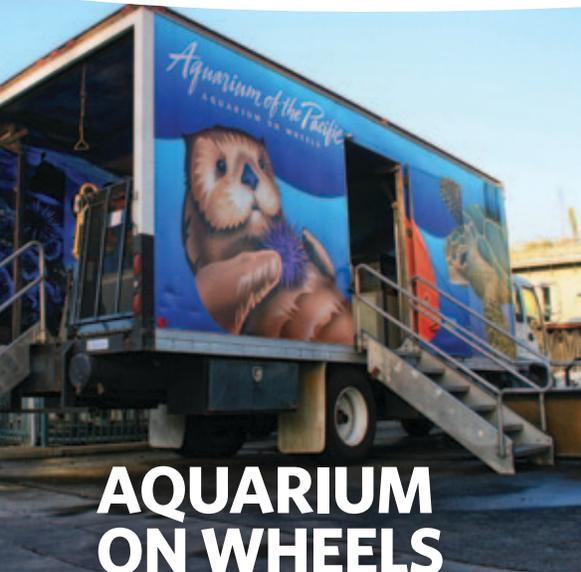
FRIDAY, OCTOBER 26 | 5:00 p.m.-7:00 a.m.

Have a "spooktacular" evening at the Aquarium with creepy crawly critters, pumpkin painting, and a freaky flashlight tour. Included in your sleepover will be a pizza dinner, light snack, animal interactions, cereal breakfast, and more. Family friendly costumes 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 ON WHEELS

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 at least two weeks prior to reserve a date (subject to availability), and then invite your guests. We also offer birthday sleepovers.

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

AGES | All ages, one adult required per 10 children

THEMES | Sharks, Marine Mammals, or Turtles

GROUP SIZE | 15-45 participants

INFO | (562) 951-1630

SP AQUARIUM ON WHEELS

AVAILABLE BY RESERVATION ONLY

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

INFO | (562) 951-1630



WHALE SIGHTINGS!

ANDREW BETSMA

OUTDOOR ADVENTURES

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

DA DOLPHIN AND SEA LIFE CRUISE

SPRING AND FALL SEASONS

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 (62+), \$15/child (3-11) | Non-members (includes Aquarium admission): \$44.95/adult, \$40.95/senior, \$29.95/child

LENGTH | 2-2.5 hours

AGES | Children under 16 must be accompanied by an adult.

RSVP | (562) 951-1630

OUTDOOR ADVENTURES

DA BLUE WHALE WATCH

SUMMER SEASON

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

COST | Members: \$45/adult, \$35/senior (ages 62+), \$25/child (ages 3-11)

Non-members (includes Aquarium admission): \$59.95/adult, \$54.95/senior (ages 62+), \$38.95/child

LENGTH | 3 to 3.5 hours

AGES | Children under 16 must be accompanied by an adult.

RSVP | (562) 951-1630

DAY CAMPS

FC FISH FRY CAMP

JUN. 19-21, JUL. 17-19, or AUG. 27-29 | 8:30 a.m.-10:30 a.m.

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

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

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

RSVP | (562) 951-1630

FC SEA SQUIRT CAMP

DAY CAMP 1: JUN. 26-28 or AUG. 7-9

DAY CAMP 2: JUL. 10-12 or AUG. 14-16 | 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 boneless beauties. This camp encourages social interaction and exploration independently from parents. Through hands-on activities, stories, crafts, and tours, your child will prove that little learners can learn big things!

AGES | 5 to 6 (children only)

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

RSVP | (562) 951-1630

FC OCEAN ADVENTURE DAY CAMP

DAY CAMP 1: JULY 9-13 OR AUGUST 20-24

DAY CAMP 2: JULY 16-20

DAY CAMP 3: JULY 30-AUGUST 3

DAY CAMP 4: AUGUST 13-17

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

AGES | Grades 2 to 4 (Children only, must be at least 7 years old to participate.)

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

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

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

RSVP | (562) 951-1630



DAY CAMPS

FC JUNIOR BIOLOGIST DAY CAMP

DAY CAMP 1: JUNE 18-22 OR JULY 23-27

DAY CAMP 2: JUNE 25-29 OR JULY 30-AUGUST 3

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

AGES | Grades 5 to 7 (children only)

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

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

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

RSVP | (562) 951-1630

FC MARINE SCIENTIST SLEEPOVER CAMP

MON.-TUE., AUG. 6-7 | 8:00 a.m.-5:00 p.m.

WED.-THU., AUG. 8-9 | 8:00 a.m.-7:30 a.m. next day

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

AGES | Grades 7 to 9 (children only)

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

RSVP | (562) 951-1630

YOUTH PROGRAMS

YP JUNIOR BIOLOGIST PROGRAM

SATURDAYS | 9:30 a.m.-11:30 a.m.

topics vary, see below

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

TOPIC Sharks	May 12
Marine Mammals	June 9
Invertebrates	July 14
Fish	August 11
Birds & Reptiles	September 8
Southern California/Baja	October 13

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

AGES | 7-12

RSVP | (562) 951-1630

YP JOB SHADOW

SATURDAYS | 9:00 a.m.-12:00 noon

topics vary, see below

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

TOPIC Aviculturist	May 5 or September 1
Veterinarian	June 2 or October 6
Aquarist	July 7
Mammalogist	August 4

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

AGES | Grades 7-12

RSVP | (562) 951-1630



ANDREW REITSMA

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 SEA JELLIES AND OTHER INCREDIBLE INVERTEBRATES

SAT., MAY 26 or SEPT. 22 | 10:00 a.m.-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.

FP TOTALLY TURTLES

SAT., JUNE 23 or OCTOBER 27 | 10:00 a.m.-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

SAT., JULY 28 | 10:00 a.m.-11:30 a.m.

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

FP MAGNIFICENT MARINE MAMMALS

SAT., AUGUST 25 | 10:00 a.m.-11:30 a.m.

Who is warm-blooded, hairy, breathes air, and lives in the ocean? Marine mammals! Join us as we learn the special ways sea otters, seals, sea lions, whales, and other marine mammals survive in the sea.

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

AGES | 4-6 years, plus adult chaperone

RSVP | (562) 951-1630

AQUA TOTS

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

AQ SLIPPERY TO PRICKLY

SATURDAY, MAY 19 | 10:00-11:30 a.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.

AQ SHORELINE SHAPES

SATURDAY, JUNE 16 | 10:00-11:30 a.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 SOUNDS OF THE SEA

SATURDAY, JULY 21 | 10:00-11:30 a.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 SUPER SENSES OF THE SEA

SATURDAY, AUGUST 18 | 10:00 a.m.-11:30 a.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 COLORS OF THE OCEAN

SATURDAY, SEPTEMBER 15 | 10:00 a.m.-11:30 a.m.

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

AQ MOVIN' & GROOVIN' BENEATH THE SEA

SATURDAY, OCTOBER 20 | 10:00 a.m.-11:30 a.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!

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

AGES | 2-3 years, plus adult chaperone

RSVP | (562) 951-1630



ANDREW REITSMA

UNDER THE SEA SHAPES

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.

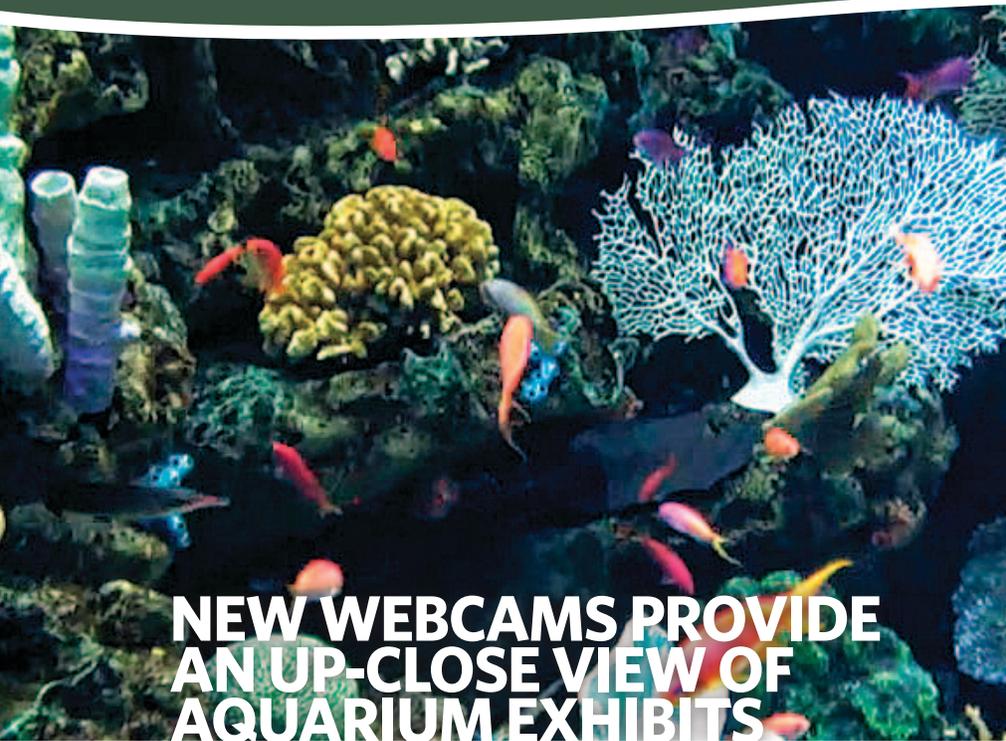
COST | \$9/member or non-member (March-June)
\$7.50/member or non-member (July-February)

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

LENGTH | 45 minutes

GROUP SIZE | 20-student minimum

RSVP | (562) 951-1630



NEW WEBCAMS PROVIDE AN UP-CLOSE VIEW OF AQUARIUM EXHIBITS

Live feeds from three webcams provide a unique underwater view of the Aquarium's exhibits, as well as the opportunity to view dive shows and feedings.

T HREE NEWLY LAUNCHED WEBCAMS allow visitors to the Aquarium's website to get a fish-eye view inside Honda Blue Cavern, the Tropical Reef Habitat, and the Tropical Gallery's Sex Change exhibit at all hours of the day and night. To access live video from the three

webcams, visit aquariumofpacific.org/aquariumcams.

The Honda Blue Cavern webcam is positioned just inside the glass, where viewers can watch the residents of this kelp forest habitat, including giant sea bass and California sheephead, and even spot Aquarium divers at feeding time.

Visitors to the Tropical Reef webcam feed will be able to see rays and zebra sharks gliding by among hundreds of other animals. The Tropical Reef Habitat is the Aquarium's largest exhibit, containing 350,000 gallons of water and more than 1,000 animals, from the tiny cleaner wrasse to the large Queensland grouper.

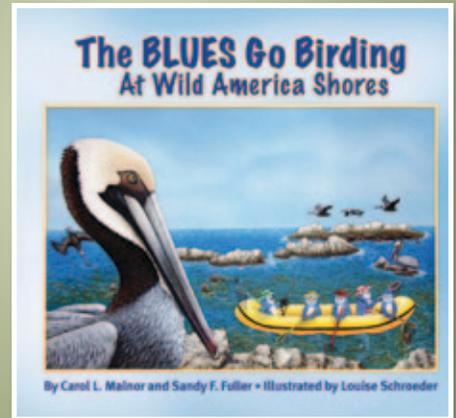
The colorful fish in the Sex Change exhibit make for particularly hypnotic webcam viewing. These fishes have the ability to change from male to female or vice versa depending on certain factors. Anthias and most wrasses are protogynous hermaphrodites. This means they are born female, but if a dominant male perishes, the largest female of the group will often change into a male to take its place. On the other hand, clown anemonefish are protandrous hermaphrodites. This means that they mature as males and the largest one will change into a female when the resident female dies.

Support for the Honda Blue Cavern and Sex Change webcams is provided by Explore.org, an initiative of the Annenberg Foundation. Support for the Tropical Reef webcam is provided by the Whitney Young Children's Foundation and Explore.org.



Aquarium Webcams

You can download a free QR reader app for your smartphone from the iTunes App Store or Android Market. Note that you must have Flash enabled on your device/computer in order to view the webcam.



GIFT STORE BOOK REVIEW

The Blues Go Birding at Wild America's Shores

By Carol L. Malnor and Sandy F. Fuller
Illustrations by Louise Schroeder

T HE BLUES GO BIRDING AT WILD AMERICA'S SHORES is part of a series of books designed to inspire children to appreciate birds. In this book, the BLUES, a group of five bluebirds, follow in the footsteps of naturalist and birder Roger Tory Peterson. They discover birds along all of North America's coasts from Newfoundland to Alaska. Peterson, the author of the landmark *Field Guide to the Birds* published in 1934, embarked on his original bird watching expedition in 1953.

The book focuses on the habitats and behaviors of several North American birds, highlighting bird facts and birding tips throughout. The species covered include Magnificent Frigatebirds and Snowy Egrets. The *BLUES Go Birding at Wild America's Shores* is geared toward children ages five to nine and is available for sale in the Aquarium's Pacific Collections gift store for \$16.95.

The *BLUES Go Birding at Wild America's Shores* is geared toward children ages five to nine and is available for sale in the Aquarium's Pacific Collections gift store for \$16.95.



ANDREW REITSMA

THE CAPITAL GROUP COMPANIES SUPPORT EDUCATION PROGRAMS

THE CAPITAL GROUP COMPANIES encourage associate involvement in local community organizations and have been long-term Aquarium supporters since 2002. Through grants, matching contributions, and numerous volunteer hours served by Capital Group associates, the company has become a valuable partner in the Aquarium's educational and environmental programs. In fact, last year more than twenty-five Capital Group associates participated in the Aquarium's Coastal Clean-Up Day at Alamitos Beach.

Jim Kang, a Capital Group associate, recently joined the Trustees of the Pacific and contributes his time at many Aquarium events. Kang and his family have been members since 2005, visiting the Aquarium frequently throughout the years. "For a long time, the Aquarium was my kids' first choice of where they wanted to go on the weekend," he says. "There is always so much for them to see and learn." Kang decided to become more engaged as a trustee after he was encouraged by another Capital Group associate, who works with their Charitable Giving Programs and knew of Kang's involvement.

In December Kang presented a grant submission on the Aquarium's behalf to the

Capital Group's Los Angeles Contributions Committee. In this successful presentation Kang communicated his enthusiastic support for the Aquarium and detailed many of the education programs. "The Aquarium is grateful to Jim Kang and The Capital Group Companies for their generous and consistent support over the years. We are proud to partner with Capital Group to improve the quality of education and the environment in Southern California" said Nancy Weintraub, vice president of development at the Aquarium.



2011 EDUCATION DONORS

We wish to extend a special thanks to the following corporations, foundations, and individuals for their support of education initiatives at the Aquarium of the Pacific in 2011.

\$100,000+

Windsong Trust

\$50,000+

The Miller Foundation
The Roddenberry Foundation
Rose Hills Foundation
Target
Water Replenishment District of Southern California

\$25,000+

BCM Foundation
The Boeing Company
John W. Carson Foundation, Inc.
K12 Inc.
Kenneth T. and Eileen L. Norris Foundation
Oxy Long Beach, Inc.
Wells Fargo

\$10,000+

Raymond and Barbara Alpert Foundation
LeBurta Atherton Foundation
Bank of America Foundation
The estate of Jeanne M. Brodeur
The Capital Group Companies Charitable Foundation
Employees Community Fund of Boeing California
The Green Foundation
Northrop Grumman Corporation
Pacific Life Foundation
Quiksilver Foundation
Southern California Gas Company
Union Pacific Railroad

\$5,000+

Begin Today for Tomorrow Charitable Foundation
BNSF Foundation
City of Long Beach Stormwater/Environmental Division
Deacon Charitable Foundation
Disney VoluntEARS Community Fund
The Engvall Family
Ella Fitzgerald Charitable Foundation
Bess J. Hodges Foundation
Kinder Morgan Foundation
Nordstrom, Inc.
SAVOR...Long Beach
Stewart F. Sexton
Ueberroth Family Foundation

\$2,000+

3M Foundation
ABS Foundation, Inc.
The Allergan Foundation
Angels Baseball Foundation
Coca-Cola Bottling Company of Southern California
The Morris A. Hazan Family Foundation
interTrend Communications
Sidney Stern Memorial Trust
Union Bank

Celebrate Penguins!

Hang this garland in your room to show off your penguin pride!

JOIN US IN CELEBRATING the arrival of our newest animals, the Magellanic Penguins, by making your own fun and festive penguin garland from recycled materials.



MATERIALS:

- Cardboard paper tubes**
When you've used all the toilet paper or paper towels in a roll, save the cardboard tube. You'll need at least three toilet paper tubes for this craft. Cut paper towel tubes in half, so they match the length of the toilet paper tubes.
- String, yarn, or twine**
You'll need about one foot per cardboard tube, plus a little extra on the ends for hanging. For three tubes, cut about four-and-a-half feet of string.
- Scraps of black and white cloth**
Old t-shirts work well for this, but you could also use felt or thick black and white yarn.
- White scrap paper**
- Black, white, and orange paint, markers, or crayons**
- Glue**

TOOLS

- Scissors**
- Hole puncher (optional)**

STEPS

1. Using scissors, cut your scraps of cloth into strips that are a half-inch wide and ten to twelve inches long.
2. Paint or color the cardboard tubes black with a white oval for the penguin's chest. If you use paint, set the tubes aside to dry. You could also wrap the tubes in black construction paper. Then, cut out the oval from white paper and glue it to the tube.
3. Use the templates above to make your penguins' eyes, beaks, and feet. Use scissors to cut circles for eyes. Use black to color in the pupils. Cut out the beak and the feet from the orange paper or color white paper orange with crayons or paint.
4. Use glue to add the eyes, beak, and feet to the cardboard tubes. At the top of each penguin on the back, punch or cut two holes about a quarter-inch apart.
5. Pull your string, yarn, or twine through the holes you punched to string each penguin on your garland. Space them evenly along the string. Tie one or two strips of black and white fabric to your string between each penguin.
6. Hang your finished garland in your room or anywhere you want to show your support of penguins.





Fishing for KNOWLEDGE!

1. Not all penguins live in areas with ice and snow. In fact, most penguins are _____ species and live in regions that have warmer weather.

2. Penguins have black and white feathers to help camouflage them from both predators and prey. This type of two-tone camouflage is called _____.

3. A large penguin breeding colony is called a _____.

Last Issue's Questions and Answers:

1. If you press a **sponge** through a fine cloth, it will reorganize its cells and return to its original function in a new form.
2. Cnidarians, like sea anemones and sea jellies, have **stinging** cells that they use to capture food.
3. Sea stars and sea urchins can **regenerate** body parts, or grow new ones if they are removed.

MAGELLANIC PENGUIN

Spheniscus magellanicus



JUNE KEYES PENGUIN HABITAT

PIGEON GUILLEMOT

Cephus columba



NORTHERN PACIFIC GALLERY

CRESTED AUKLET

Aethia cristatella



NORTHERN PACIFIC GALLERY

MAGELLANIC PENGUINS

Spheniscus magellanicus



FUN FACT

Magellanic Penguins were named for the Portuguese explorer Ferdinand Magellan.

PHYSICAL CHARACTERISTICS:

Standing at about two feet tall as full-grown adults, Magellanic Penguins are medium-sized, migratory diving birds. Mostly black in color, these penguins have white belly coloration typical of the penguin species. Their most distinctive feature is symmetrical white rings around their eyes.

HABITAT:

These warm-water penguins are found off both the Pacific and Atlantic coasts of South America.

DIET:

Magellanic Penguins eat small fish like anchovies, as well as krill, squid, and even crustaceans.

PIGEON GUILLEMOT

Cephus columba



FUN FACT

Within the first ten days of their lives Pigeon Guillemot chicks triple their weight.

PHYSICAL CHARACTERISTICS:

Pigeon Guillemots are characterized by small heads with long, straight bills and slender necks. Their feathers are entirely black except for their short wings, which are patchy white. Their feet are a vivid reddish-orange color.

HABITAT:

These birds are found all along the United States and Canada's Pacific shores, from California up to Alaska.

DIET:

Fish, squid, and crustaceans comprise the majority of the Pigeon Guillemot's diet.

CRESTED AUKLET

Aethia cristatella



FUN FACT

During their breeding season Crested Auklets smell just like tangerines!

PHYSICAL CHARACTERISTICS:

Crested Auklets get their name from the striking crest of feathers that droops forward just above their brownish beaks. They are black in color with black webbed feet. During breeding season their beaks turn a bright orange, their crests grow fuller, and thin white plumes grow behind each eye.

HABITAT:

These diving birds spend most of their lives at sea around Alaska. They return to land during the breeding season to nest along the rocky coastal slopes of Alaska, eastern Japan, and the Kurii Islands.

DIET:

They rely on a diet of marine invertebrates, plankton, and squid.

Member Specials

SAVE THE DATE



Benefiting the Aquarium of the Pacific

Saturday, October 13, 2012

7:00 p.m.-11:00 p.m.



SAVE THE DATE and mark your calendars for our ninth annual Sea Fare event, which raises needed funds for our education, conservation, and animal care programs.

Sea Fare is the must-attend event of the year. Local restaurant chefs provide samples of their savory entrees, sustainable seafood, delectable desserts, and more. Guests will also enjoy an open bar, a live cooking demonstration, silent and live auction items for bidding, and our popular "Go Fish" opportunity game. Dance to live music, and visit with the 11,000 animals that call the Aquarium home. Last year this event sold out, so be sure to check our website in July when tickets go on sale!

PHOTOS: SCOTT SMELTZER

Have you considered an upgrade?

Upgrade your membership today, and you will have access to increased member benefits, such as:

- ✦ Transferable membership card (Family Plus membership level and above)
- ✦ VIP events
- ✦ Exclusive opportunities
- ✦ Our more than 11,000 animal residents will appreciate your added support!



FOR MORE INFORMATION, visit www.aquariumofpacific.org/membership or call the member support center at 562-437-FISH (3474).

AQUARIUM OF THE PACIFIC

SAVE 20% this spring 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 our gift stores.

This coupon is valid through 8/31/12 inside all Aquarium gift stores. Valid as a one-time offer. Cannot be combined with any other offer. No cash value. Restrictions may apply. N-0812-A

MEMBERS-ONLY SPECIAL



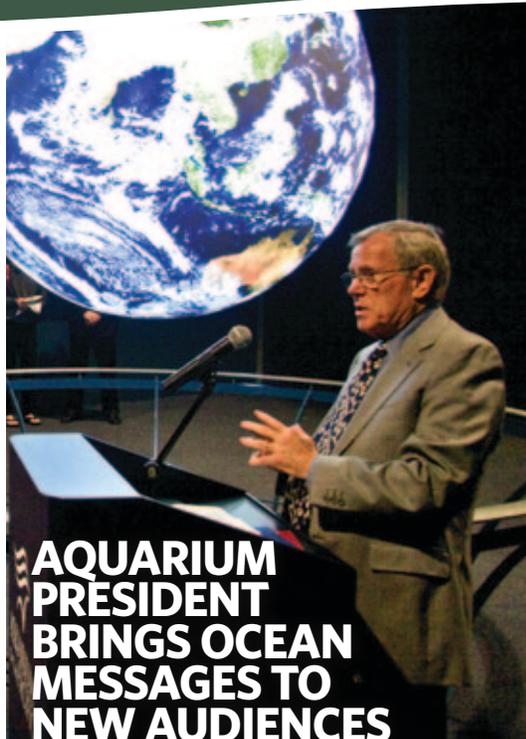
NEW SHOW ADDED TO AQUARIUM'S OCEAN SCIENCE CENTER

The show, displayed on the Science on a Sphere®, helps visitors learn about marine ecosystems and ocean health.

THE AQUARIUM has added new original programming to the presentations shown in the Ocean Science Center on the National Ocean and Atmospheric Administration's Science on a Sphere®.

Marine ecosystems and fisheries are the topics of a new Science on a Sphere® show that connects ocean health to animal and human health. It details how disruptions to marine ecosystems—like rising temperatures, increasing ocean acidity, improper fishing techniques, and pollution—travel up the food chain.

The show includes images of sea surface temperatures, carbon dioxide levels, animal migration routes, and more. It is subtitled in Spanish, like all other programming presented in the Ocean Science Center, and will enter the daily show rotation in July.



AQUARIUM PRESIDENT BRINGS OCEAN MESSAGES TO NEW AUDIENCES

In connecting with other agencies and associations, Aquarium President and CEO Jerry Schubel helps build coalitions of ocean supporters across the country.

AQUARIUM PRESIDENT AND CEO JERRY SCHUBEL was appointed to the Savannah Ocean Exchange's Board of Governors earlier this year. In this role, he will share his expertise with the organization in its efforts to bring about solutions that positively impact oceans and marine life. Dr. Schubel joins a prestigious group of advisers that includes Daniel J. Basta, director, NOAA Office of National Marine Sanctuaries; Dan Laffoley, marine vice chair, International Union for Conservation of Nature's World Commission on Protected Areas; and Togolio T.A. Tulafono, governor, American Samoa.

The Savannah Ocean Exchange holds an annual competition, the Solutions Exchange, and this year two awards of \$100,000 will be presented to the winning entries. The competition seeks to inspire the development of innovative solutions for saving the oceans. The Solutions Exchange will be held September 20 to 22, with additional ocean-related events offered throughout the month. For more information, visit savannahoceanexchange.org.



Above: The 2011 Savannah Ocean Exchange contest winner was the Wave-Glider from Liquid Robotics. It uses wave motion to propel itself, thereby requiring no fossil fuel. Below: Innovators present concepts at the Savannah Ocean Exchange.

In February Dr. Schubel spoke at the University of California, San Diego's Greenovation Forum. The forum is organized by the university's Sustainability Solutions Institute and was open to the public.

Dr. Schubel was a panel speaker during the session, *Coastal and Marine Spatial Planning: The Ecological, Economic, and Governance Principles for Managing the Ocean*. Dr. Schubel and three other ocean use experts discussed ecosystem-based coastal and marine spatial planning (CMSP), which is a process that informs the spatial distribution of activities in the ocean so that existing and emerging uses can be maintained, use conflicts reduced, and ecosystem health and services protected and sustained for future generations. Dr. Schubel continues to explore the concept of CMSP with ocean experts and create scenarios for the future of Southern California's urban ocean.



The Savannah Ocean Exchange competition seeks to inspire the development of innovative solutions for saving the oceans.

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 and to a diverse range of projects.

■ A New Partnership with Quiksilver

Quiksilver, with the assistance of Aquarium Board Member Sean Pence, is the latest donor to support the Aquarium's Campus Master Plan expansion projects. Quiksilver has pledged \$250,000 over five years to these projects. "Quiksilver is proud to collaborate with the Aquarium of the Pacific in its expansion efforts. Just as the Quiksilver Foundation strives to enhance the quality of life of the communities we serve, we applaud the Aquarium for their commitment to ocean education and stewardship," stated Pence, senior vice president and general counsel (Americas), Quiksilver, Inc.

■ The Ralph M. Parsons Foundation Supports Education

The Ralph M. Parsons Foundation has granted \$100,000 toward the Aquarium Scholarship Fund that will bring approximately 4,000 disadvantaged students to the Aquarium free of charge this year. This funding provides critical support to Title I schools in Los Angeles, allowing them to participate in high-quality science education and experience up-close interactions with marine animals. Based on the evaluation of the scholarship program in 2011, the majority of teachers reported they would not have been able to bring their students on a field trip without this funding support.

■ Board Member Stephen Olson Provides Support to Retail Expansion

Stephen Olson, Aquarium of the Pacific board member since 2000, and his wife Brenda pledged \$100,000 to the Aquarium's Campus Master Plan retail expansion project. In addition, the Ralph and Hazel Osborn and Lois J. Rook Charitable Trust, where Olson serves as president, will contribute a matching grant of \$100,000 to the project.

Dive in!

Let the Aquarium of the Pacific turn your next special event into a night to remember. Available for unique evening events, ranging from a casual reception to a formal sit-down dinner. Shark Lagoon and Cafe Scuba are also available for early evening events. For more information call **(562) 951-1663** or visit yourevent.aquariumofpacific.org.

SAVOR...
Long Beach *Aquarium of the Pacific*

100 AQUARIUM WAY LONG BEACH, CA 90802

AQUARIUM ACCOLADES

HERITAGE AWARDS



Ruben Rios | Festival of Human Abilities

Glenn McIntyre Heritage Award honoree Ruben Rios is an artist and advocate for people with disabilities. At age eighteen Rios suffered a gunshot wound that damaged his spinal chord and left him paralyzed from the neck down. After his injury, he turned to art as a way to express himself, reclaim his identity, and regain a sense of self-worth. Today, he spends most of his time painting with the use of a mouth stick, advocating on behalf of those with injuries similar to his, and sharing his story with others. He serves on the Rehab Council and as the co-chairman of the Patient Advisory Council at the Rancho Los Amigos Rehabilitation Center in Downey, working to improve service to patients and foster communication between the staff, doctors, patients, and their families. He has also been involved in the organization's annual art show for more than fifteen years and, with other artists at the center, teaches a pediatric art class for patients. He is a member of the Association of Mouth and Foot Painting Artists and an ambassador for the Christopher and Dana Reeve Foundation.

Pictured above: Tina Sarty, controller, Aquarium of the Pacific; Debbie Tomlinson, director, volunteer and support services, Rancho Los Amigos National Rehabilitation Center; Yolanda Rafael; Ruben Rios, 2012 Festival of Human Abilities Glenn McIntyre Heritage Award honoree.



Frank D. Godden | African American Festival

Heritage Award honoree Frank D. Godden attended Tuskegee University in Alabama, a historically African American educational institution. He is the university's oldest living alumnus. It was during his time at the university that he first met and befriended pioneering scientist Dr. George Washington Carver and became one of two tour guides for Carver's laboratory and office. Godden later founded the George Washington Carver Museum of California. He also played a significant role in the development of the city of Val Verde, California, known in the first half of the twentieth century as the "Black Palm Springs." A member of the NAACP and the Urban League, Godden's efforts on behalf of the African American community include successfully campaigning for hiring minority school teachers in the Los Angeles Unified School District and employees of the City of Los Angeles and campaigning for the removal of the "restrictive covenant" law, which prohibited African Americans and other minorities from recreating at local beaches and from buying and renting real estate in certain areas of Los Angeles.

Pictured above: Anthony Brown, CFO, Aquarium of the Pacific; Jerry Schubel, president and CEO, Aquarium of the Pacific; Abdul-Salaam Muhammad, curator, George Washington Carver Museum; seated, Frank Godden, 2012 African American Festival Heritage Award honoree.



Aquarium of the Pacific | Pacific Life Foundation Walter B. Gerken Community Service Award

The Pacific Life Foundation honored the Aquarium with the Walter B. Gerken Community Service Award, along with a \$25,000 grant. The Aquarium will use the bulk of the awarded funds to support its Seafood for the Future (SFF) program. The remaining

\$5,000 will go toward programs that combine art and ocean education at the Aquarium. Pacific Life was the founding sponsor for SFF, aiding in the development and implementation of the program. The Pacific Life Foundation was also the founding underwriter of the Aquarium's *Whales: Voices in the Sea* interactive exhibit kiosk, which opened in 2004 and has since been added at five other institutions across the country. Additionally, since 2004 the Pacific Life Foundation has provided six grants totaling nearly \$50,000 in support of the Aquarium Scholarship Fund. With this support, more than 5,100 disadvantaged students were able to visit the Aquarium.

Pictured left: Jim Morris, chairman, president, and CEO, Pacific Life, and chairman of the Pacific Life Foundation; Margaret Schubel; Jerry Schubel, president and CEO, Aquarium of the Pacific; Bob Haskell, senior vice president of brand management and public affairs, Pacific Life, and president of the Pacific Life Foundation.

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THE AQUARIUM OF THE PACIFIC is proud to recognize the society of donors known as the Pacific Circle. These committed individuals, foundations, and corporations provide critical support for the Aquarium's annual operations and mission-driven programs. The Aquarium sends its sincerest thanks to each member and appreciates the inspiring dedication and generosity of the Pacific Circle. This listing does not include donations to our Education Fund, Scholarship Fund, Ocean Conservation Awards Gala, Capital Campaign, and other special projects.

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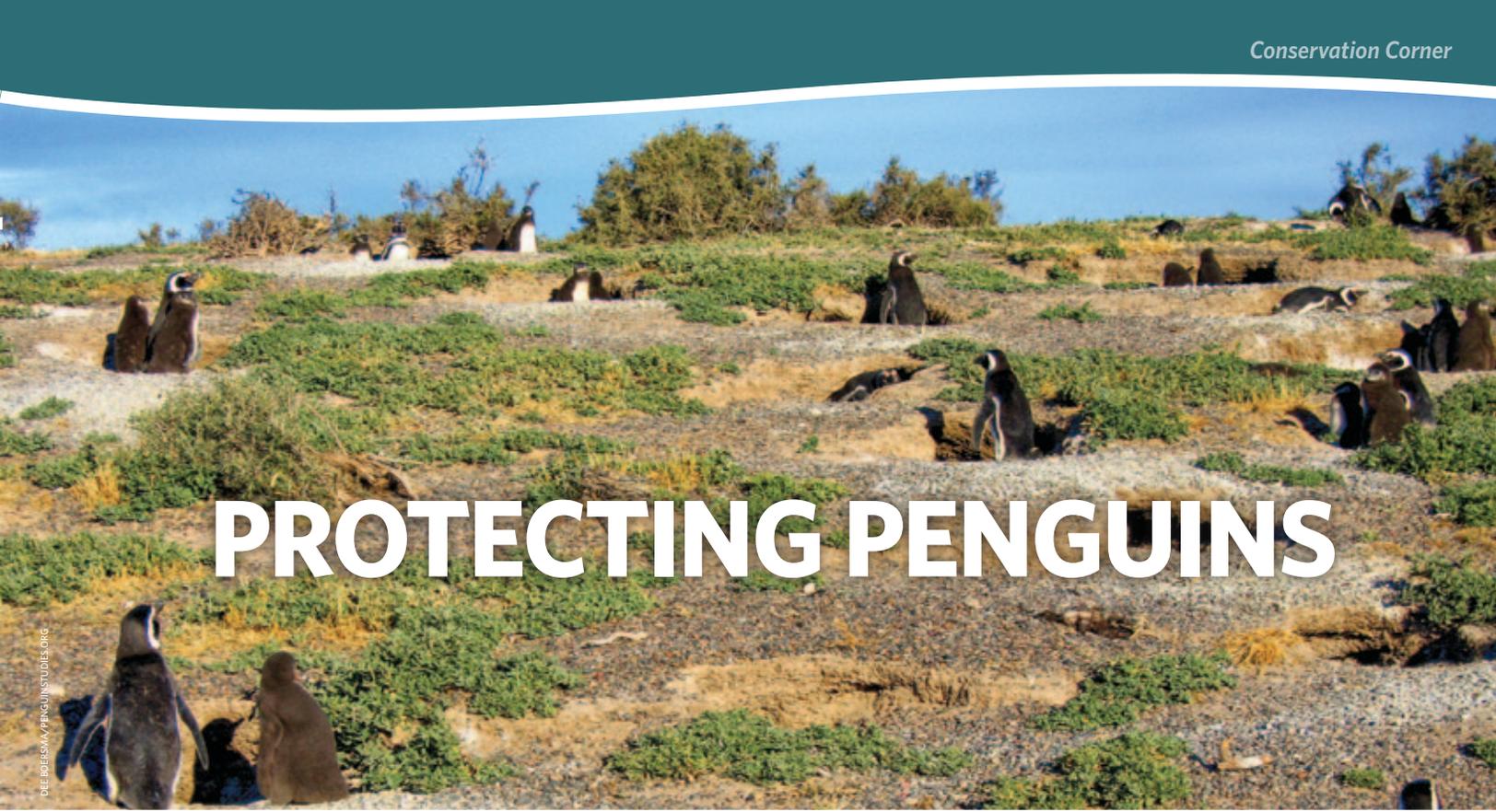
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PROTECTING PENGUINS

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Most penguin populations are under threat from human activity that results in negative impacts to penguin habitats and health. Overfishing and bycatch of their food sources, habitat loss, ocean pollution, and the impacts of climate change all pose a danger to penguins in the wild.

A **SIGNIFICANT PORTION of the world's penguins are endangered or threatened.** The International Union for Conservation of Nature, the agency that compiles and tracks “threat to extinction” status, has listed Galápagos Penguins as endangered, Yellow-Eyed Penguins and Southern Rockhopper Penguins as threatened, and Magellanic Penguins as near threatened. Under the Endangered Species Act, the United States has listed Galápagos Penguins as endangered and Yellow-Eyed and Southern Rockhopper Penguins as threatened.

Since 1987 the Magellanic Penguin population at Punta Tombo, Argentina has declined by approximately 20 percent. In some areas the decline has been even greater. An estimated 1.8 million breeding pairs of Magellanic Penguins remain worldwide.

Because of human activities, places where Magellanic Penguins come ashore to breed are changing. New breeding colonies are forming along the coast of Argentina. The penguins have colonized these and similar areas because humans have designated these places as nature reserves or parks and have removed predators such as foxes and pumas. Colonies are also forming farther north, reflecting distribution changes in their food supplies, a development attributed to climate change.

Over millions of years penguins have been able to adapt and evolve to cope with large environmental changes. For this reason, they are able to thrive in their habitats, which can be extremely harsh and cold, such as the freezing temperatures of Antarctic winters. But never before have penguins experienced such rapid changes as they have over the past few hundred years, especially in the past several decades. Will penguins be able to cope in the face

of these threats? And can human activity be changed in time to bring endangered and threatened species back from the brink and keep more off the endangered and threatened lists?

Protecting the land sites where penguins breed and ocean areas where they forage will help their populations recover. Reducing overfishing and bycatch, where fish or other marine animals are caught unintentionally, will help ensure the availability of food for penguins. Pollution from oil spills is particularly dangerous to penguins, so improved monitoring and regulation of drilling and expansion, a fast response to spills, and moving shipping lanes away from foraging areas are critical changes humans can make.

Slowing the rate of changes to the environment caused by climate change is also crucial to the health of penguin populations. Climate change is causing alterations in food availability and ocean currents, forcing penguins to travel farther in search of food. This was believed to be the case when some of the Aquarium’s Magellanic Penguins were originally stranded on the coast of Brazil, where they were eventually rescued.

Some changes can be made by individuals, but other changes will need to be made by governments. Learn about the threats penguins face, stay engaged with the issue, and communicate your concerns to government representatives. If we act fast, we can help protect penguins.



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