



FY19 ANNUAL REPORT

July 1, 2018–June 30, 2019

CALIFORNIA ACADEMY OF SCIENCES



Letters from the Chair of the Board of Trustees and Executive Director

September 12, 2019

This year we celebrated a decade of accomplishments in the “new” Academy. During that time we provided 15 million visitors—1.2 million on school and youth field trips—with access to world-class science education and discoveries.

Looking to the future, we also conducted a comprehensive search for the Academy’s next Executive Director, with input from our entire community. We are delighted to welcome Dr. Scott Sampson to the role of Executive Director and William R. and Gretchen B. Kimball Chair. Scott’s background as a paleontologist and experience in museum leadership and public science education uniquely qualify him to lead the Academy forward at this exciting time.

Thank you for helping build an Academy for the 21st century. As a donor through **Friends of the Academy, Platinum Circle, Corporate and Foundation Partnerships**, and **Eastwood Associates**, your support fuels scientific research and knowledge and inspires action to build a healthier planet for future generations.

I hope you enjoy the stories in this annual report, a window into the Academy’s critical work locally and globally. Thank you for making it all possible.

Sincerely,



Elizabeth R. Patterson

Elizabeth R. Patterson
Chair of the Board of Trustees

I am excited to begin my tenure as Executive Director of the California Academy of Sciences—known globally for its legacy of scientific excellence and commitment to science education and environmental literacy. It is an honor to join the Academy’s vibrant community of dedicated staff, **Trustees**, and supporters.

As a paleontologist, I have focused on investigating the distant past; as an environmental educator, I know it is critical to find solutions that will ensure a viable, healthy future. The Academy’s top-notch scientists work every day to document and understand our changing world, and discover ways we can sustain it for future generations. And our talented educators create powerful, unique opportunities for discovery and learning—supporting children and adults as they forge lasting connections to the natural world. It is my belief that these deep connections with nature are key to inspiring us all to care about and protect our planet.

Thank you for supporting the Academy’s mission and world-class museum. I am proud to lead this remarkable institution into the next decade, and am certain that together we will accomplish great things.

Sincerely,



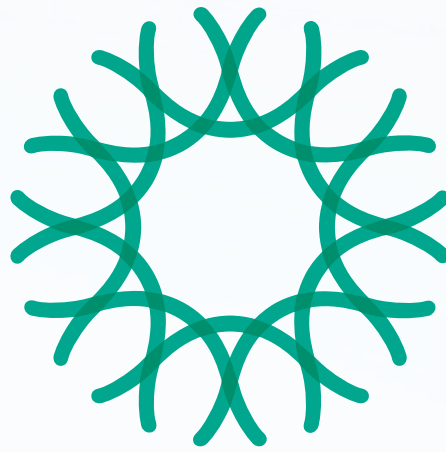
Scott Sampson

Dr. Scott Sampson
Executive Director
William R. and Gretchen B. Kimball Chair



The California Academy of Sciences is more than a science museum—it's where curious minds meet innovative ideas and passion for the planet grows. We connect people to the wonder of the natural world, the power of science, and solutions for a sustainable future. The stories in this annual report reflect the impact of your generosity as an Academy supporter.

Thank you!



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A Living Museum

Over
10
years

Total guests
15 million

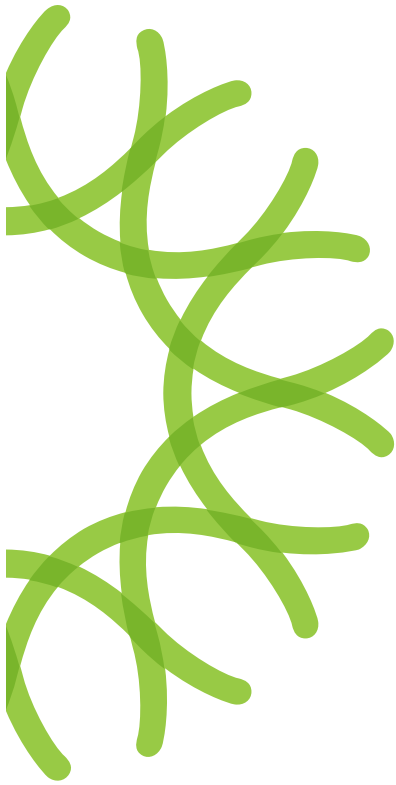
Guests through free and
reduced admission

2 million

School and youth groups
on free and subsidized
field trips

1.2 million





This year, the Academy celebrated the first decade in our new state-of-the-art “green” building—and how much we have learned and grown together.

Today, 100 native species are thriving on our **Living Roof**; the Universe comes to life in **Morrison Planetarium**; tropical birds and butterflies fill **Osher Rainforest**; and the world’s deepest indoor coral reef shimmers in **Steinhart Aquarium**. The Academy is a hub of energy and ideas, where guests of all ages thrill to see live animals and interact with scientists, educators, and docents who inspire life-long curiosity and connections to science and nature.

*Thank you for supporting the first decade of the “new” Academy.
Read on to learn what your generosity has helped make possible.*



Dive show visitors over 10 years: 1 million

Steinhart Aquarium

Have you ever wondered how all the colorful corals and fishes got into the Academy's 25-foot deep **Philippine Coral Reef**? It was no easy feat. For our 2008 re-opening, Aquarium biologists moved 1,500 live coral colonies grown at the Academy's temporary location piece-by-piece into their new home. Ten years on, the Philippine Coral Reef is a top visitor attraction, enlivened by daily dive shows presented by public engagement staff and scuba divers inside the tank.

Visitors learn all about coral reefs in the wild—and the Academy's efforts to protect them through our global **Hope for Reefs** initiative. In a recent *Hope for Reefs* victory in the Philippines, the mayor of Tingloy—a municipality fringed by incredibly diverse reefs—**designated a 54-acre Marine Protected Area (MPA)**. The new MPA will protect reef health and biodiversity for generations to come. The mayor based his decision on scientific data amassed over years of Academy research expeditions to the Philippines, and recommendations from Drs. **Meg Burke** and **Terry Gosliner** and partners from De La Salle University, the community, local NGOs Pusod and the SEA Institute, Old Dominion University, and the Smithsonian.

A community reef monitoring project is already proving effective, detecting a large population spike in the coral-eating Crown-of-Thorns Starfish. Volunteer snorkelers and divers launched into action and removed over 400 starfish in a single weekend! This community monitoring model will ideally be a template for more protected areas, empowering local communities to steward precious reefs.

"This new Marine Protected Area—and its long-term monitoring—is significant because it recognizes the need to set aside areas for conservation before the reef is lost or damaged beyond its ability to come back."

—Dr. Terry Gosliner
Senior Curator of
Invertebrate Zoology



Rainforest visitors over 10 years: 9.5 million

Osher Rainforest

How do you grow a four-story rainforest in San Francisco? With a lot of patience and imagination! From the first plantings a decade ago, **Osher Rainforest** has grown into a breathtaking exhibit. Birds dart and flutter in the canopy; colorful macaws preen; insect song fills the air; massive arapaima fish glide through the Amazonian flooded forest; and adults and children are delighted by colorful butterflies. Species like the Blue Morpho and Magnificent Owl are captivating—and represent a conservation win.

Since the exhibit opened, the Academy has worked with global partners like **Costa Rica Entomological Supply** (CRES) to help protect and sustain tropical forests around the world. As a leader in sustainable butterfly production, CRES works with professional and small scale farmers to produce butterflies native to their region for display in educational exhibits globally. These partnerships let farmers protect and reforest land, creating habitat for green macaws, butterflies, pumas, and other wildlife.

Academy visitors who thrill to see butterflies emerging in the exhibit habitat learn why tropical forests—which absorb more than one-third of greenhouse gases and drive Earth's climate—are worth protecting, and how we can all help.



Morrison Planetarium

Most of us will never hurtle through outer space or dive to the ocean floor, but we can explore immersive worlds that feel nearly as real as our own thanks to **Morrison Planetarium's** award-winning Visualization Studio. Comprised of digital artists, technologists, and storytellers from the feature film industry, the "Viz Studio" has been at the leading edge of visualization technology since we first debuted our state-of-the-art, 75-foot dome depicting one of the world's most accurate digital Universes.

In the past decade, the Viz Studio has created six original planetarium shows: *Fragile Planet*, *Life: A Cosmic Story*, *Earthquake: Evidence of a Restless Planet*, *Habitat Earth*, *Incoming!*, and *Expedition Reef*. Authentic scientific data anchor dynamic visual storytelling, with live presentations by planetarium staff. The Viz Studio also creates original content for Academy public floor channels, including our 3D theater, Hohfeld Hall, and museum exhibits as well as free online educational materials and modular videos that draw content from planetarium shows. Planetarium shows reach millions more people globally through licensing and distribution. Recently, Sweden's Lund Planetarium licensed the multi-award-winning *Expedition Reef* and ***Expedition Reef for Educators*** online learning videos.

Up next is *Big Astronomy*, about astronomy in Chile, funded by the National Science Foundation. And in September 2020, we will premiere another original show exploring what makes life possible on Earth and whether it exists elsewhere in the Universe. Stay tuned!

Academy planetarium shows have been licensed in 20 countries and 100 planetariums worldwide.



Exhibits & Festivals

Academy exhibits and seasonal festivals bring science and nature to life for visitors of all ages. Exhibits often require years of planning, production, and execution—involving the entire Academy. To more deeply connect guests with science concepts and ideas, our public engagement specialists orchestrate more than 30 interactive presentations and activities throughout the Academy every day. **Youth program** participants also engage the public—



developing valuable leadership, public speaking, and communication skills. And there are 10–15 **volunteers** on the museum floor at any given time facilitating demonstrations and specimen investigations and guiding animal encounters. It's no wonder guests rate these personal interactions among their favorite experiences at the Academy!

Dino Days

Who's afraid of a 20-foot-tall roaring *Tyrannosaurus rex*? Not us! In spring 2019, **Dino Days** took over the East Garden to celebrate the fascinating creatures that roamed Earth 75–65 million years ago in the Late Cretaceous period. Populated by moving, life-size, animatronic dinosaurs, the festival was so successful that it was extended by three weeks.

Thanks in large part to a generous \$100,000 gift from The Bernard Osher Foundation, excited visitors of all ages got to play paleontologist on a fossil dig; discover ancient plants like ferns and cycads that still grow today; enjoy children's puppet shows explaining how fossils are made; and learn how fossils help scientists piece together the distant past.



Skin: Living Armor, Evolving Identity

Did you know that your skin never stops regenerating—or that tiny, harmless mites live on human faces? The **Skin** exhibit opened in June 2019 and explores the shape-shifting and adaptable nature of skin. It features specimens from Academy collections, immersive media, and multisensory, hands-on components that reveal the diversity of skin across organisms—such as hyper-sensing crocodilian skin receptors and super-thick whale skin. Visitors explore human skin: how it shapes our interactions with other organisms and the




environment; technological innovations it inspires; and social and historical ideas about race and skin color. Partners at **Facing History and Ourselves** and **Youth Outside** hosted trainings to help staff, guests, and the community approach topics like racism and prejudice with respect and sensitivity. *Skin* is presented in English, Chinese, Filipino, and Spanish, and generously supported by Susan and Nicholas Pritzker, Dr. Garry Rayant and Dr. Kathy Fields, and Mary and Jerome Vascellaro.

EXCERPT FROM THE SKIN EXHIBIT

“Human races are categories that humans invented. These groupings change over time and from place to place and are often linked to skin color. Society has used these notions of race to privilege some people over others and to assign judgements of people’s character based on their physical appearance.”





“By achieving AZA accreditation, Steinhart Aquarium demonstrates a commitment to protecting animals around the world and inspiring their guests to do the same.”

—Dan Ashe
AZA President and CEO

Caring for 40,000 Animals

Have you ever wondered how the penguins and stingrays stay healthy, or how Claude the albino alligator gets his medical check-ups? A good person to ask is Head Veterinarian Freeland Dunker. Formerly of the San Francisco Zoo, Dr. Dunker joined the Academy when we re-opened in 2008. Since then, the Academy’s resident animal population has grown significantly. Today, Dr. Dunker and his talented team oversee all aspects of care for 40,000 live animals representing approximately 900 species.

It’s not enough to hold ourselves to the highest standards of animal care. Every five years, we also update our accreditation with the gold-standard Association of Zoos and Aquariums (AZA). The application for 2019-2024 took a cross-functional Academy team 18 months to prepare, comprised of 539 individual documents submitted in May 2019. After a rigorous on-site inspection, the AZA gave the Academy a glowing report—without even a minor concern! Congratulations to the entire team, who work daily to provide the best care in the world to our beloved animal ambassadors.



Global Science and Sustainability Solutions



Over
10
years

Global scientific
expeditions

500+

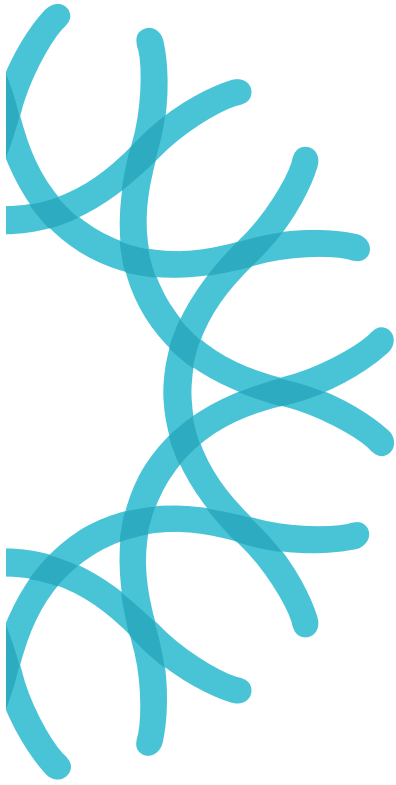
New specimens
added to collections

1 million

New species described by
Academy scientists

1,500





Academy scientists traverse the globe—and explore our own backyard—studying threats to biodiversity and species survival; seeking answers to the impacts of climate change; and developing sustainable solutions to share

with the public in person and online. Over the past ten years, our diverse and talented cohort of scientists from around the world has grown ever-stronger. Supporting these science heroes, their global research, and our scientific collections of 46 million specimens and objects creates powerful impacts—today and for generations to come.



Breakfast before Conservation

What if insects can help solve both population and conservation challenges? For three decades, Patterson Scholar [Dr. Brian Fisher](#) has been documenting new species on the island of Madagascar off East Africa—one of Earth's most important biodiversity hot spots. He has watched in alarm as forests are cleared for cropland and fuel in an attempt to sustain a population forecast to double in 25 years, with 50 percent of children under five already malnourished. Only ten percent of the island's natural habitat remains—and the practice of hunting lemurs (bushmeat) for food has endangered a unique species found only in Madagascar.

Seeking solutions, Fisher turned to what he knows best: insects. In 2017, he launched [Breakfast before Conservation](#), a pilot project investigating the nutritional value of insects—a traditional staple of the Malagasy diet—to combat hunger and protect lemurs.



“Breakfast has to come before conservation,” said Fisher. “Thankfully, some insects taste like bacon.” Fisher and colleagues selected a native cricket for large-scale food production and created Valala Farms to grow, harvest, and grind protein-packed insect powders to mix with porridges. Entomo Farms, the largest supplier of food-grade crickets in North America, has partnered with Fisher to share protocols for processing crickets—which have a small energy footprint and whose manure can be used for reforestation. Currently, Valala Farms—whose managers and employees are all

Malagasy—produces 20 kilos of powder weekly for 400 meals. Initial distribution in 2018 focused on feeding communities with high rates of malnutrition and providing school lunches for children. With additional investment, Fisher and partners aim to scale production in 2019 and 2020 to provide enough protein for every child in Madagascar.

“Entomologists can’t sit on the sidelines anymore. Forests are disappearing faster than we can describe resident species, and children are growing up hungry.”

—Dr. Brian Fisher
Curator of Entomology



Expedition Galápagos

Did you know that the Academy exists in large part because of the Galápagos islands? Our first expedition to the remote Ecuadorian archipelago set sail in 1905 and was gone for 17 months. During that time, the 1906 earthquake and fire almost completely destroyed our museum and collections. When the eight Academy scientist-sailors returned months later with 78,000 specimens onboard, they laid the foundation for the Academy's modern natural history collections—which still include the world's largest Galápagos collection outside the islands.

In January 2019, an interdisciplinary group of Academy scientists and science communicators traveled to the Galápagos to launch a new era in our long-standing partnership with the renowned Charles Darwin Foundation (CDF). Scientists from the CDF, the Academy, and regional conservation partners engaged in spirited planning for future collaborative projects to help protect the islands' unique biodiversity—which is threatened by invasive species, climate change, and human activities. To engage local communities around



conservation, the Academy's **Citizen Science** team organized an all-ages bioblitz using our **iNaturalist** app—resulting in 271 observations of 84 species and 50 newly-inspired naturalists!

To amplify the call to protect the iconic archipelago, this year's **Big Bang Gala** focused on the Galápagos. Four hundred Gala attendees and 2,000 Party After Dark revelers helped raise \$2.5 million for the Academy, \$500,000 directly benefiting work in the Galápagos. Special thanks to all attendees and to Mayor London Breed, Board Chair Elizabeth Patterson, Interim Executive Director Mike McGee, event co-chairs Mary and Jerome Vascellaro, and corporate chair Andrew Anagnost, Autodesk.



Hope for Reefs

Did you know that in the wild, most corals spawn on the full moon—just one night each year? While this may sound romantic, it's a challenge for studying coral reproduction. Patterson Scholar **Dr. Rebecca Albright's** passion to protect corals threatened by climate change and human activities spurred her to establish the Academy's **Coral Spawning Laboratory** to rapidly accelerate research. The first of its kind in the United States, the lab celebrated a successful second annual spawning event this spring. Six colonies spawned with more than 70 percent fertilization success rate, more than 100,000 *Acropora hyacinthus* larvae, greater than 1,000 settlers, and above 90 percent survivorship.

A unique scientific resource for the Bay Area, the lab's proximity to equipment, aquarium systems, and genetics facilities enables novel research. Academy scientists are collaborating with researchers from Stanford University and Carnegie Institution for Science to develop projects to study a new coral genome and the transfer of corals' microbiomes from

parents to offspring—all to understand how to preserve and protect reefs in the wild.

On the Caribbean island of Curaçao, **Dr. Pim Bongaerts** launched a unique long-term study mapping the vulnerability and resilience of coral reef ecosystems from shallow to mesophotic depths (200–500 feet). The project generates large-scale 3D reconstructions from high-resolution photo plots to follow the growth, mortality, and recruitment across thousands of individually genotyped corals. One species, the Sunray Lettuce coral (*Helioseris cucullata*), is rapidly disappearing and virtually unstudied due to its preference for greater depths. To ensure that our world-leading mesophotic dive team is equipped to advance this cutting-edge research, Dive Operations Manager and Safety Officer Mauritius Bell led a week-long intensive training for Academy researchers and dive officers in Curaçao.



iNaturalist and Seek City Nature Challenge

It was a banner year for **citizen science** and **iNaturalist**—now the most widely-used citizen science app on the planet! Powered by the Academy and National Geographic Society, the free app is not just a great way to learn about and enjoy nature; it is a valuable tool for scaling conservation science data to help scientists understand and predict how our world is changing.

We also marked the biggest single week ever for iNaturalist observations—



a record set during the fourth annual **City Nature Challenge**. City Nature Challenge is an international celebration of urban biodiversity launched by Citizen Science teams at the Academy and the Natural History Museum of Los Angeles County. In 2019, 159 cities and 35,000 people participated worldwide—logging nearly one million observations in four days. Some 31,000 species were documented,

including more than 1,100 rare, endangered, or threatened species. Cape Town, South Africa dominated two of three categories (total number of species and observations), while San Francisco had the most participants (1,947, including more than 550 new iNaturalist users). We are working to greatly expand this international iNaturalist network—with existing nodes in Mexico, Canada, Colombia, and New Zealand—by adding new nodes for Australia, Portugal, South Africa, and across Latin America.

“City Nature Challenge unites the world with biodiversity engagement in a manner that is meaningful, simple, and fun.”

—Shaun Martin
Hong Kong SAR

Building off iNaturalist’s success, in spring 2019 we launched a new app called **Seek by iNaturalist**, a child-friendly species identification game. Our goal with Seek is to engage non-naturalists in the more accessible aspects of the iNaturalist experience—by helping identify species and nearby target species to look for, all made possible by the existing iNaturalist community and database.



Scientific Collections

Have you ever wondered where the Academy keeps our priceless scientific collections? The answer is that there are a mind-boggling 46 million specimens and objects—from microbes to dinosaurs—stored throughout the building. They are safeguarded by dozens of expert curators and collections managers.

Why are collections—and protecting and sharing them—so important? First, they are an irreplaceable record of life on Earth. A current and critical Academy initiative is digitizing our collections as a backup for future generations to utilize. The urgency of this effort was underscored last year when Brazil lost much of its natural history heritage in a tragic fire. Second, scientific collections have powerful applications for modern life: they help reveal how our world is changing; which animals and ecosystems are most vulnerable; and what we



“Academy collections represent more than 200 years of accumulated scientific work. People have trusted us to safeguard the work of tens of thousands of researchers.”

—Deb Trock

Director of Science Collections

can do to implement sustainable solutions. For example, this spring we loaned 7,000 carpet beetles to Australian researchers for a multi-year study to combat an invasive grain beetle poised to unleash millions of dollars in agricultural damage. The United States Department of Agriculture borrowed our specimens to improve its identification of pests in cross-border food shipments. And researchers racing to address the chytrid fungus devastating frog populations are testing our specimens to understand how, when, and why the fungus exploded worldwide.

Thank you to generous donors Thomas and Pauline Tusher for a \$2.7 million gift over four years to fund a new Collections Gallery on the public floor, and Troy and Leslie Daniels for a \$1 million gift to fund collections digitization and preservation.

Whale Strandings

Spring and summer 2019 brought a tragic unusual mortality event to the West Coast, with 75 beached gray whales—more than a dozen in the San Francisco Bay area alone. Scientists are investigating reasons for the massive die-off—including possible food source disruptions, climate change, disease, or other causes. Whatever the reason, by the time the gray whales reached San Francisco Bay during their long migration, many entered the Bay and risked being hit by ships.

Moe Flannery, Senior Collections Manager for Birds and Mammals, worked hard to respond to local strandings and gather important scientific information. She partnered with Academy staff and volunteers as well as the Marine Mammal Center in Sausalito. Operating under a Stranding Authorization issued by the National Marine Fisheries Service, the teams performed ten whale necropsies to collect tissues and bones to determine cause of death. As an important West Coast repository for whale skeletons and tissues, the Academy's scientific collections are critical to ongoing research analyzing toxins, parasites, and ship strike morphological evidence to better understand what caused this year's mortality event—and how to protect marine mammals in our changing world.

“My hope is that our research will translate into changing the policies for shipping lanes and reducing boat speeds in the Bay to protect vulnerable whales.”

—**Moe Flannery**
Senior Collections Manager,
Birds and Mammals



Science Education and Environmental Literacy

Over
10
years

Careers in Science graduates
accepted to college

100%

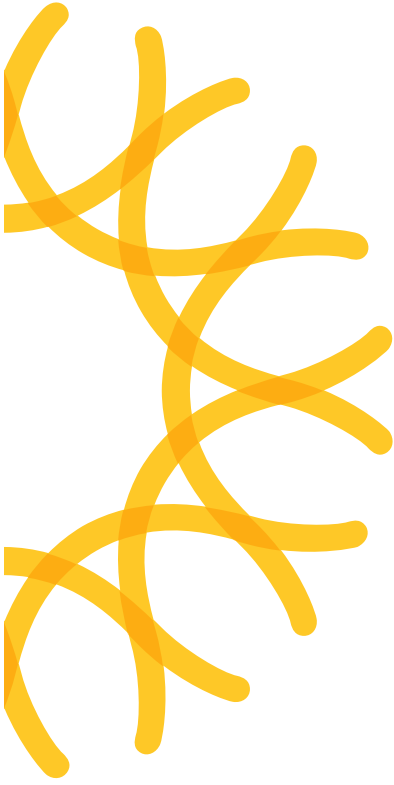
Science Action Club
participants nationally

62,000

Science and Environmental
Media Lab global digital views

8.4 million





Helping children and teens gain skills and knowledge to navigate our fast-changing world is essential.

With support from generous donors, the Academy leverages our expertise in science and environmental education and unique museum setting to spearhead education programs locally, nationally, and globally. From toddlers to teenagers, we provide pathways for discovery, learning, and workforce development. We empower educators with the resources they need to confidently teach STEM subjects. And we prioritize serving youth from backgrounds historically underrepresented in STEM fields. Together, we are growing the next generation of informed civic leaders, visionary scientists, and innovative problem-solvers.





other teens. They were especially proud to give their peers an opportunity to experience the Academy free of charge. “Teen Science Night is a great opportunity for teenagers to experience a cool museum for free, to see what the Academy has to offer, and build an interest in science,” said Virgyl. In fact, nearly 100 percent of teens who attended said they would recommend the event to other teens.



Teen Science Night

Each summer, the Academy hosts **Teen Science Night**—the largest teen-only science event in the nation. In a typical year, some 2,000 youth attend from nine Bay Area counties and multiple states and countries. Organized by and for teens, the Teen Science Night 2019 leadership team included Virgyl, 16, Javier, 17, and Jackson, 17 (all Careers in Science interns). They began organizing in January, and it was a whirlwind. “The biggest thing I’ve learned is communications,” said Jackson. “We wrote a lot of emails and you have to be professional and persuasive, to draw people into the Academy.” The three mastered important job skills—partnering with multiple outside organizations, sending polished emails, and developing confidence leading

“Every step of the way has been so much fun. I’ve learned more through Teen Science Night than in my whole junior year at school.”

—Javier

Teen Science Night co-organizer

Teen Advocates for Science Communication

Kayla, 18, likes science so much that she commuted with her mom from Petaluma, CA to participate in two semesters of **Teen Advocates for Science Communication** (TASC). TASC creates opportunities for volunteer youth to learn about science and the natural world, engage with Academy scientists and staff, and facilitate educational activities for the Academy’s 1.3 million annual visitors. Kayla pursued her interest in science and nature by volunteering with the Marine Mammal Center over the summer after graduating high school. This fall, she entered her freshman year at UC Santa Cruz to study environmental science—the second member of her family to attend college, after her older brother. Kayla recently sent her TASC mentors a note to say, “I just wanted to thank you both for all of the fun times at TASC that reinforced my love for science communication!” Good luck in college, Kayla!

Teacher Professional Development Bayview Science Institute

From June 2018–June 2019, the Academy welcomed 22 educators from four elementary schools in San Francisco's Bayview neighborhood in the first year of a new **Bayview Science Institute** (BSI). BSI is a year-long professional development experience for teachers, including summer sessions at the Academy, individual coaching, and ongoing learning throughout the school year. BSI was designed with extensive input from Bayview teachers, administrators, students, and families. The first year was such a success that 25 new educators joined the BSI community in June 2019—recruited from first-year schools and four additional neighboring schools. This growing and supportive network of Bayview-based teaching colleagues spent a week with BSI,

“BSI was the best coaching I received my whole teaching career. All the Professional Development was planned in detail with thought and consideration. I left with usable tools, ready to apply them in my classroom.”

—Myron Kingsbury
5th grade teacher

problem-solving and planning to create more space for science, technology, engineering, and math (STEM) in their schools. They also focused on working with students experiencing trauma, increasing opportunities for student choices in learning, and integrating science into other subjects like math and English Language Arts.



Science Action Club

Science Action Club (SAC) is an out-of-school-time program that inspires youth to explore and connect with nature while achieving essential science, technology, engineering, and math (STEM) learning goals. Through dynamic curricula that integrate high-energy games and hands-on activities with citizen science investigations, SAC ignites curiosity, develops workforce skills, and builds STEM identity. The program features lesson plans, teaching kits, and staff trainings that empower educators to facilitate STEM learning with youth-friendly curricula—*Bug Safari*, *Bird Scouts*, and *Cloud Quest*. From rural Alaska to midtown Manhattan, more than 62,000 youth and educators in over 400 communities in 26 states have participated in SAC since it began with just two San Francisco clubs in 2011.



Careers in Science

Each year, 30–40 San Francisco high school students participate in high-impact, paid internships that provide exceptional one-on-one training with Academy scientists and educators. Over two-to-three years, youth develop scientific literacy, workplace skills, and a commitment to environmental stewardship. Nearly 100 percent of **Careers in Science** graduates enroll in a college or university, and are three times more likely than peers to declare a STEM major.

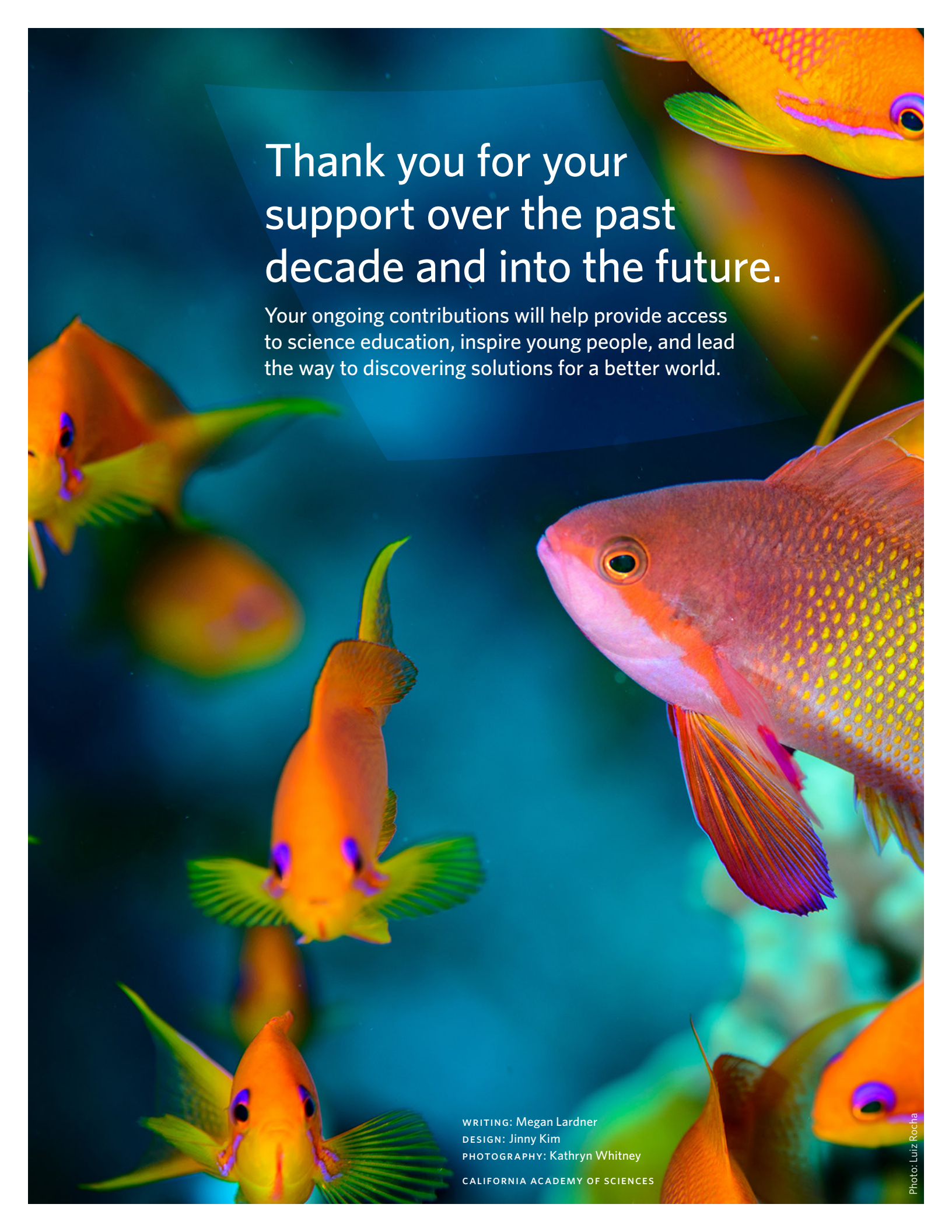
“Do you ever look up at the stars at night? Have you ever thought about what happens inside a star and why it is shining?” Malik, 18, posed these questions to a rapt audience gathered last September to celebrate the ten year anniversary of the “new” Academy. In fact, Malik was exploring science at the old Academy long before the new building opened; his dad brought him to the museum every Friday beginning when he was just three years old. As a teenager, Malik jumped at the chance to participate in Careers in Science. After three years in the program—and a mentorship with Josh Roberts, Supervisor of Planetarium Programs—Malik is off to Northern Arizona University to major in astronomy. His dream? “To become an astrophysics researcher and science communicator for astrophysics.” We wish you success, Malik!

“My mentorship was a stepping stone to the future. It’s a program that helps you navigate the real world, save money, and clock in on time. It helps you with real job skills.”

—Malik

Careers in Science intern





Thank you for your
support over the past
decade and into the future.

Your ongoing contributions will help provide access
to science education, inspire young people, and lead
the way to discovering solutions for a better world.

WRITING: Megan Lardner
DESIGN: Jinny Kim
PHOTOGRAPHY: Kathryn Whitney
CALIFORNIA ACADEMY OF SCIENCES

Photo: Luiz Rocha

FINANCIALS

Careful stewardship of financial resources is key to growing the Academy's impact at a time when science—advancing it, understanding it, sharing it—is essential to life on Earth.

OPERATING REVENUE AND EXPENSES

Years ended June 30, 2019, 2018

Revenue

	2019	2018
Earned revenue	35,777,316	35,096,541
Contributions	14,504,433	17,190,049
Endowment transfers & investments	8,684,856	7,442,748
City	6,521,849	7,128,624
Total Revenue	\$65,488,453	\$66,857,963

Expenses

IBSS	7,240,082	6,671,937
PE&E	9,543,195	9,283,443
Operations	16,540,513	16,980,041
Development	3,864,885	3,989,780
Exhibits	1,812,196	1,692,871
Marketing	13,066,350	13,509,644
G&A	8,095,168	7,817,534
Capital	5,357,389	6,530,998
Total Expenses	\$65,519,778	\$66,476,249

FINANCIAL POSITION

Assets

	2019	2018
Investments	470,330,580	445,494,808
Property & equipment, net.	322,978,525	335,207,186
Receivables, net	70,803,912	26,902,940
Other	13,784,589	12,935,263
Total Assets	\$877,897,606	\$820,540,197

Liabilities

Accounts payable & accrued expenses	7,997,299	7,775,843
Deferred revenue	6,595,636	6,760,179
Bonds payable, net	279,267,932	279,207,893
Annuities & other long-term liabilities	2,229,855	2,302,707
Payable for investments purchased	72,110,968	2,397,987
Total Liabilities	\$368,201,690	\$298,444,609

Net Assets

Without donor restrictions	372,568,116	379,991,038
With donor restrictions	137,127,800	142,104,550
Total Net Assets	\$509,695,916	\$522,095,588
Total Liabilities and Net Assets	\$877,897,606	\$820,540,197

