



ACKNOWLEDGMENTS

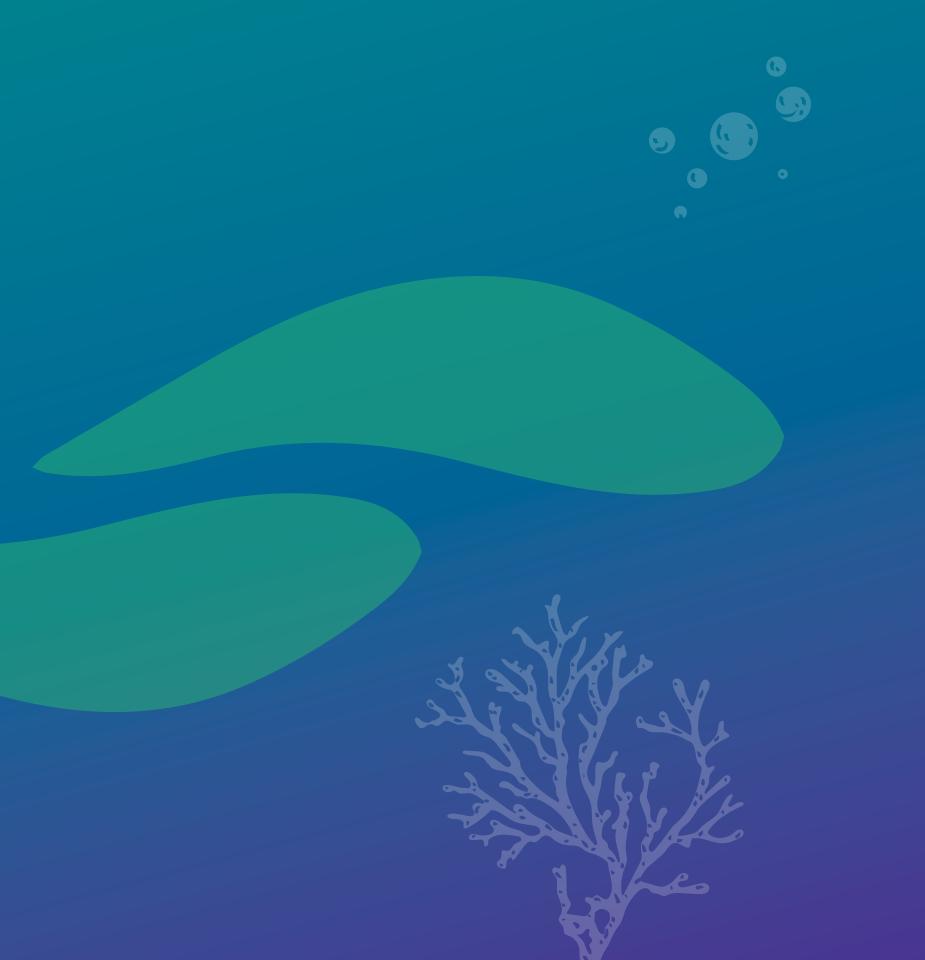
We are grateful to our Donors, Patrons, Sponsors and Members who have continued to support our programs through one of the most difficult years in the 25-year history of the Aquarium of the Bay. Our wonderful staff, many of whom faced furloughs due to the pandemic shelter-in-place Public Health Directives, for their dedication, care, and hard work in nurturing the 24,000 animals in our collections. Our Board of Directors have remained alert to the fiscal challenges and emergency measures that we proactively put in place. Our external partners and international collaborators have demonstrated great faith in our ability to deliver amid adversity and challenges, that has continued to strengthen our resolve and explore new solutions and opportunities. We are thankful to our advisors and in-kind supporters for helping us stay the course on our mission.

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Content: Department Directors

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EXECUTIVE

LEADERSHIP

MESSAGES







STUDIO AQUA





THE BAY INSTITUTE









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DR. PAUL AUERBACH
Redlich Family Professor at Stanford University
Adjunct Professor of Military/Emergency
Medicine at the Uniformed
Services University of the Health Sciences

Obituary: Dr. Paul Auerbach (1951-2021)

We learned this year of the untimely passing of one of our Advisors, Dr. Paul Auerbach, MD, of brain cancer. A legend in Emergency Medicine, he provided a voice of calm and expertise in countless disasters around the world. He was 70. His last email to me was days before his demise, expressing interest in coming to the Blue Marble event with his wife and contributing to our mission. One of the founders of wilderness medicine, Auerbach, a longtime professor of emergency medicine at the Stanford University School of Medicine, researched

and advocated for sports head injury prevention, wrote about climate change and its effect on health, and was an expert in disaster medicine. He helped us with our COVID-protocols and is featured in our videos. His generous contributions to the Aquarium and his speech at the 2018 Blue Marble held at the Bently Reserve with Dr. Jill Biden will be remembered for its message of urgency and hope. May his soul rest in Peace Eternal and may his work and initiatives around the world continue to enrich the lives of the underprivileged.



DR. SYLVIA EARLE
National Geographic Explorer in Residence
Founder, Mission Blue; Deep Ocean
Exploration and Research



JOHN GEIGER
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Royal Canadian Geographical Society



DR. YVONNE CAGLE

NASA Astronaut, Johnson Space Center's Space
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Advisor, NASA Flight Opportunities Program



DR. CONRAD LAUTENBACHER
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Eighth Administrator, NOAA



DR. DANIEL KAMMEN
Professor, Energy (UC Berkeley); Goldman School
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Assistant Secretary, Ocean & Coastal Policy,
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Sudha Pennathur LP Collections



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JAZ CARIOLA
Director, Guest Services



VICKI DE WITT Executive Assistant



GARY BOBKER Director, Rivers & Delta Program



CHRIS LOW
Director, Facilities &
Life Support Systems



ANGELINA PREZA
Director, EcoXpeditions



PATRICK DORAN Director, IT Services



TEPPEI TOKURA Assistant Controller



HANNAH WOODALL Manager, Events and Tourism



KEVIN McELIGOT
Associate Director, Animal Care



HUNTER COUGHLIN

Manager, Studio Aqua

Multimedia & Promotions



MELISSA SCHOUEST Director, Animal Care



PHILLIP KEELING Director, Institutional Advancement



BRIAN HARRIS Senior Manager, Studio Aqua Web & Graphic Design

GLOBAL COLLABORATIONS











MESSAGE FROM CHAIR, BOARD OF DIRECTORS

December 14, 2021

Dear Friends of BayEcotarium:

As a business owner in San Francisco and in my capacity as the Chair of the Entertainment Commission of San Francisco, I experienced the crushing impact of COVID-19 pandemic that affected small businesses, entertainment, hospitality, and tourism destinations across the board. With cancellation of conferences, cruise ships, and business travel coupled with remote working, the city turned to empty streets and a cascading string of closures. The Aquarium of the Bay, unlike many museums and indoor attractions, had a bigger challenge on their hands with 24,000 live animals on life-support systems and 24/7 animal and veterinary care linked to a unique supply chain of food.

What the team managed to accomplish in the worst crisis in their 25-year history is nothing short of a miracle. Not only did we shift gears into the online front facing mode with programs and learning outreach, but we also branched out internationally - seeking projects designing and master-planning other institutions to augment sources of revenue and retaining staff on payroll. What was more remarkable was that during this period of shut-down, we leveraged their focus to restructure debt, extend their lease terms, cross-train personnel and reduce administrative overheads. The results were amazing when the Aquarium fully re-opened after nearly 15 months of shutdown. Using a combination of conferences, webinars, podcasts, TV interviews, NPR presentations, unique NFT auctions, EcoStore online merchandise, designer COVID-masks, publications and events, the Aquarium remained in the public eye, soliciting donors, sponsors, members, and patrons.

We are strengthening our Board and deepening our reach to engage our advisors and ambassadors as we seek new partnerships and collaborations. We look to your generous support in helping us continue to meet our mission of protecting and saving the San Francisco Bay and its fragile ecosystems from Sierra to the Sea.

As the year draws to an end, I am pleased to share that we have not only stabilized our operations, but have turned a new leaf, with one of the best years in our history, with more to come!

Sincerely,

Ben Bleiman

Chair, Board of Directors, BayEcotarium San Francisco Entertainment Commissioner







MESSAGE FROM PRESIDENT & CEO

December 14, 2021

Dear Members, Patrons and Friends:

2021 has shown steady improvement in our operations and our ability to turn the tide and overcome many of the unprecedented challenges of the pandemic infused preceding year that saw the tourism industry crumble and indoor destinations shut.

Not only did we invest our time and strategic resources in improving our infrastructure, add new species to our animal collection, augment exhibit content, merchandise and education programs, we also revamped our method of delivery and transformed our business model. Cross-training and exploring new methods of optimizing resources, we successfully leveraged social media and content platforms to expand our outreach and cyber presence. Each month we enhanced our staffing levels, and we are now well on our way to a full recovery of our operations, education and outreach programs. We continue to collaborate on stellar international projects and became the only aquarium in the nation to be tapped into designing and master-planning world-class destinations for institutions in Norway, Jamaica and Scotland, with more to come. Your continued support has been a great source of strength for all of us.

Grammy winners came together to write us a song dedicated to the BayEcotarium, as we mark the 40th Anniversary of the Bay Institute and the 25th Anniversary of the Smithsonian Affiliated Aquarium of the Bay with multiple peer recognized awards, publications, books and synergistic global initiatives, turning adversity into our finest year yet!

We look forward to a wonderful and promising 2022.

Stay tuned. Stay Connected.

George Jacob FRCGS

President & CEO, BayEcotarium

Board of Directors, ICOM-US

Board of Directors, Bay Area Council

Board of Directors, US Travel

Board of Directors, Cal-Travel

Fellow, Royal Canadian Geographical Society

Chief Advisor, UN Environment (Caribbean) Climate Museum Initiatives





EXECUTIVE SUMMARY

This year marked our 40 years of environmental advocacy through the Bay Institute policy work, and the 25th anniversary of ocean conservation through the Aquarium of the Bay programs and initiatives. Overcoming the seemingly insurmountable challenges of 2020, this year has been a testament to our collective resolve to turn the tide. The Aquarium re-opened to the public at 25% visitor cap, plunging us further into the fiscal crisis as our overheads and staffing levels went up, while the revenues barely crossed the 10% threshold.

However, this changed dramatically when the City Public Health finally allowed us to re-open at 100% capacity in mid-June. We soon witnessed long unprecedented lines of visitors and a diverse demographic drawn from the 200-mile radius around the Bay Area. The trend continued to show an upswing surge for the next three months, even as we kept a strict vigil on our internal COVID protocols for safety and sanitation. Research work on sevenaill sharks, COVID vaccinations for river otters, transportation of wolf eels bred at the Aquarium to institutions around the world, new exhibits on climate change, papers and publications continued at full pace behind the scenes. Capital improvements in our life support systems, new exhibits, and online merchandise design saw a significant uptick.

On June 8, 2021- World Ocean Day- we became the first non-profit in the Bay Area to hold an in-person event graced by the Lt. Governor of California Eleni Kounalakis and the former Prime Minister of Greece, George Papandreou delivering the Keynote at the 28th TBI Awards and the Blue Marble Benefit where we honored the first Director of the Aquarium, Michael Gallagher, among others. In July, we were invited to meet the Prime Minister of Jamaica where we unveiled our Master Plan to develop a world-class \$132 million Oceanarium in Montego Bay. This year also marked the completion of Phase 2 of our Oceanarium business analysis for Norway.

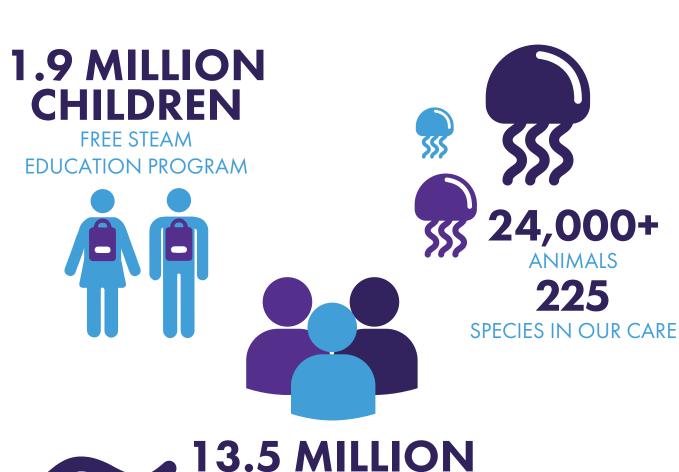
We successfully launched our seventh division - EcoXpeditions - a curated ocean diving underwater photography, field research-based curated five-day module in Hawaii with 16 high-school kids participating from Atlanta, Georgia. This was the first such partnership with an aquarium on the East Coast for us on the West Coast. Other expeditions are planned for Costa Rica, Baja, Florida Keys, Greece, and Galapagos in the coming months. Dr. Sylvia Earle held the release of her new National Geographic Book, OCEAN: A Global Odyssey at the Bay Model, where we hosted 300 guests from across the US and abroad.

The UN COP26 Climate Summit in Glasgow led to an announcement from the City of Inverciyde to collaborate with us to start work on a World Climate Museum in Victoria Harbor, Greenock. Accolades of our efforts came from near and far, with the Aquarium of the Bay winning the Best of the Best in Bay Area Family Destination Award followed by the 2021 California Travel Association Sustainability Advocacy Award.

With Google-X and Google Cloud AR/ VR partnership to develop e-learning modules on the anvil, we look forward to a promising 2022 ahead!

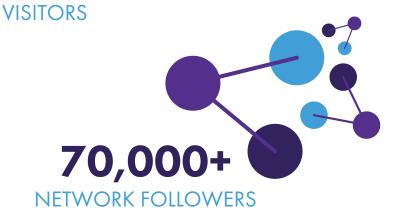
BAYECOTARIUM IS THE LARGEST NON-PROFIT (501C3) **CONSERVATION GROUP IN THE** SAN FRANCISCO BAY AREA COMMITTED TO CLIMATE RESILIENCE AND OCEAN CONSERVATION, TO PROTECT AND PRESERVE BIODIVERSITY AND ECOSYSTEMS, FROM SIERRA TO THE SEA™

40 YEARS OF ACHIEVEMENTS

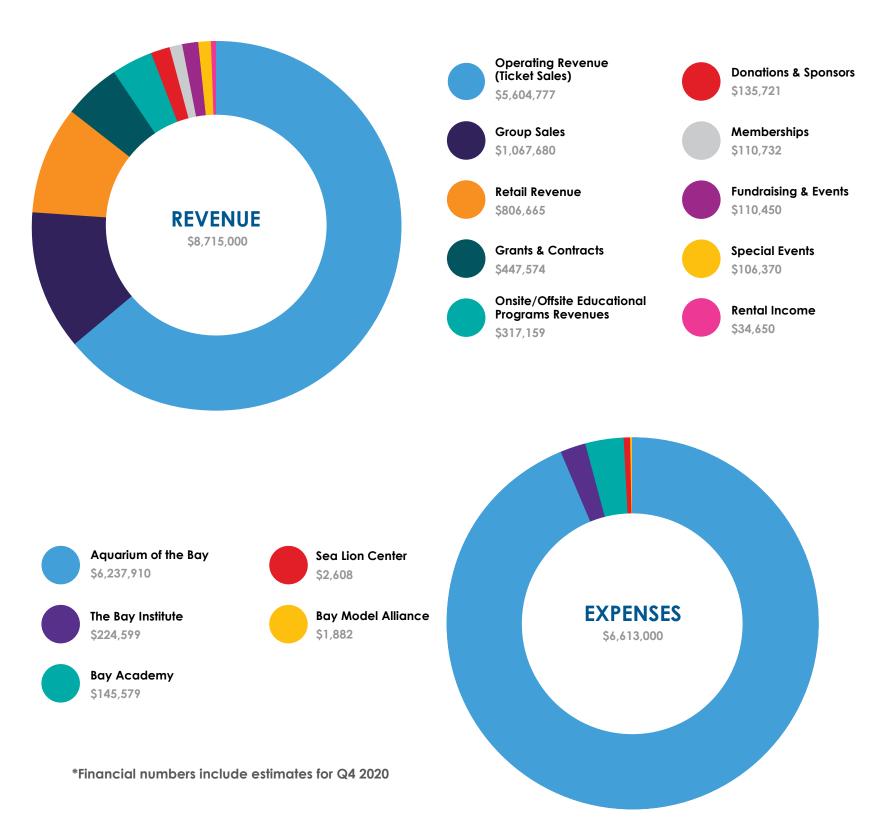




BAY SHORELINE











INTERNATIONAL OUTREACH



DUBAI

INTERNATIONAL OUTREACH



During the pandemic, the Aquarium began an international outreach program collaborating with a multitude of institutions extending our expertise in master planning, interpretive planning, functional planning, exhibit concept development, field research, and generating education programs. These initiatives have had a tremendous positive impact on the organization. Apart from enhancing the international profile, it has provided a learning platform to the staff, offered wonderful exposure, generated secondary sources of revenue, and leveraged internal talent to impact other parts of the world including Jamaica, Norway, Greece, Scotland, Japan, India, Dubai, and Hong Kong, among others.



In Norway, our work on the new national Aquarium in Ocean City Bergen, has moved from the completion of the functional brief to the completion of a comprehensive business plan. As we await the announcement for exhibit design-build services and architectural design-build services, we were part of the jury to re-brand the new national Aquarium. In Jamaica, we completed the detailed master plan for the Oceanarium in Montego Bay. Our team was invited to present this legacy project directly to the Prime Minister of Jamaica, His Excellency Andrew Holness, Minister of Tourism & Hospitality and the Minister of Climate Change & Environment, Fisheries & Oceans. The project was approved for \$132 million and was followed by the award of the next phase of the project focused on business and risk analysis.



Melting polar icecap exhibit design Norway Akvariet

Jellyfish multimedia projection

3. Climate change crisis











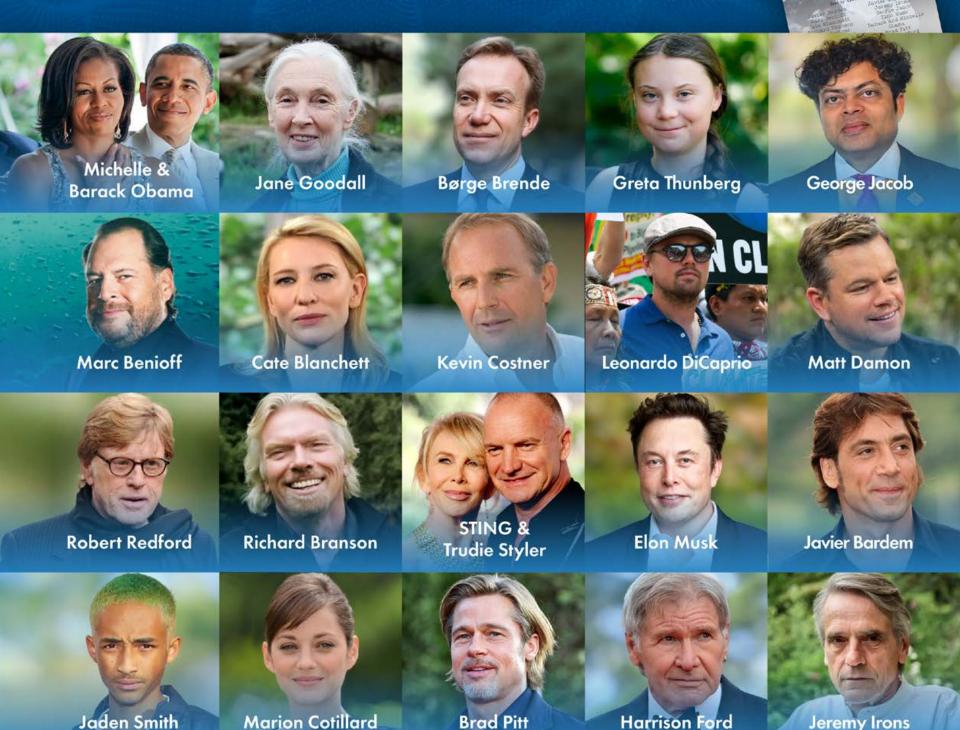
On the eve of the conclusion of the United Nations Climate Summit COP26 in Glasgow on November 10, 2021, Scotland announced a collaborative partnership with the BayEcotarium to establish a World Museum of Climate & Oceans at the Victoria Harbor site in Inverclyde/Greenock. Many of the voices of reason to save the planet from around the world were featured in a new National Geographic book, SOS Planet Earth, with the foreword by the President of the World Economic Forum.







SOS PLANET EARTH VOICES FOR A BETTER WORLD





Aquarium of the Bay develops Jamaica Oceanarium Master Plan

Led by BayEcotarium in San Francisco, an international team of experts developed and delivered a comprehensive Master Plan in record time to the Urban Development Commission (UDC) of Jamaica. This culminated an in-person presentation to Prime Minister Andrew Holness on July 1, 2021. The Presentation was attended by, among others, the Managing Director of UDC as well as Ministers of Climate & Environment

and Tourism & Hospitality. The Prime Minister expressed his support in principle to this initiative and recommended a Business Case Risk Analysis Study to commence in conjunction with exploring a viable P3 (Public-Private Partnership) in the context of challenges faced by diminishing market-cap of the tourism and hospitality sectors in the post-COVID scenario.

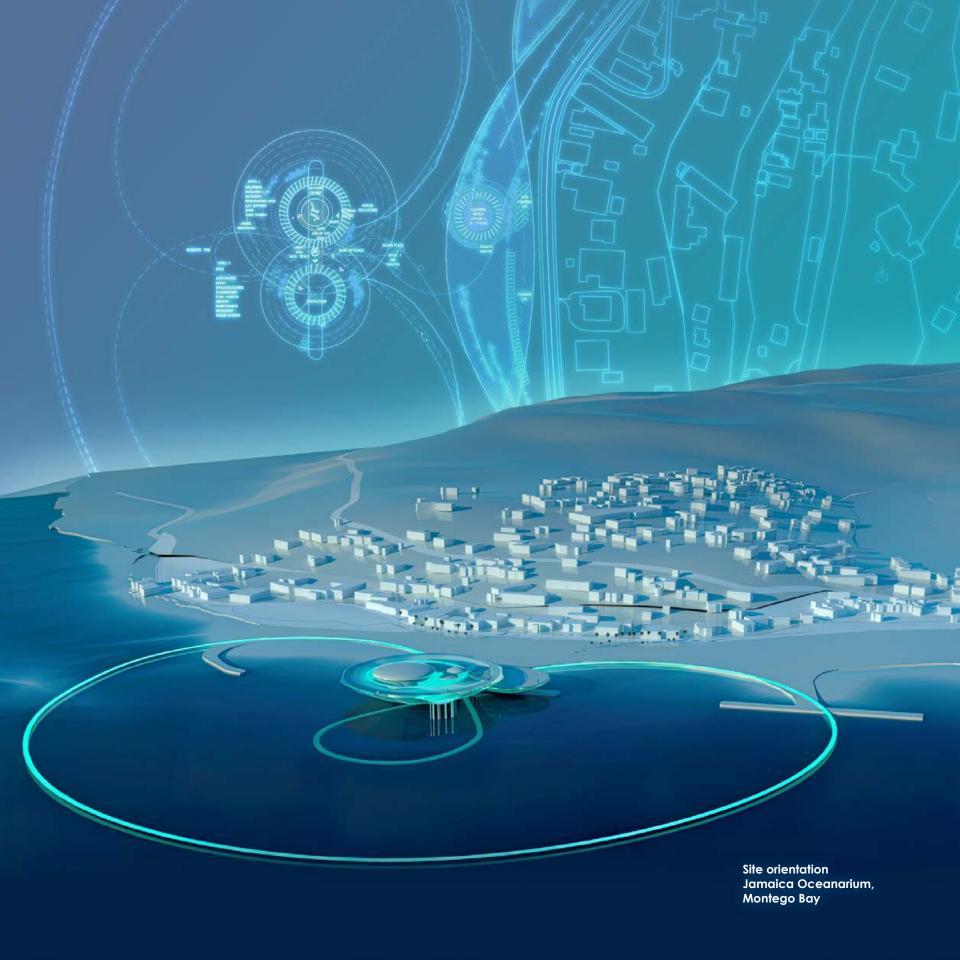








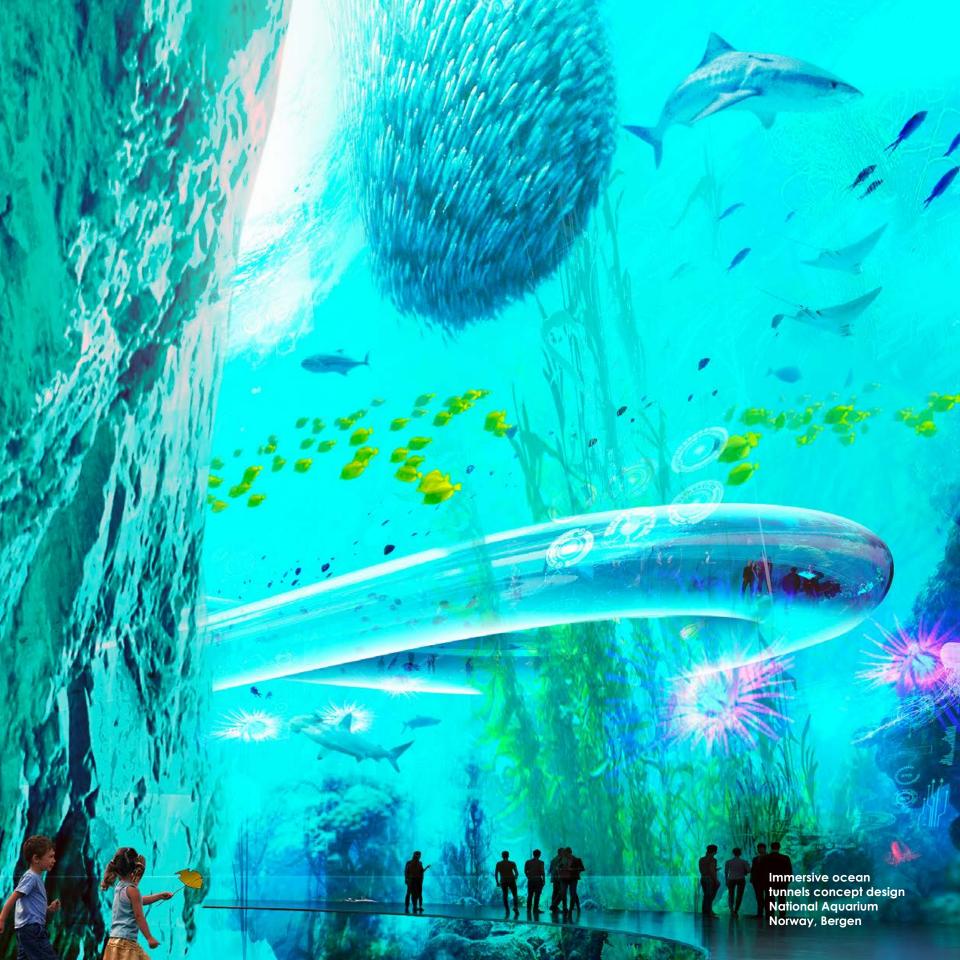


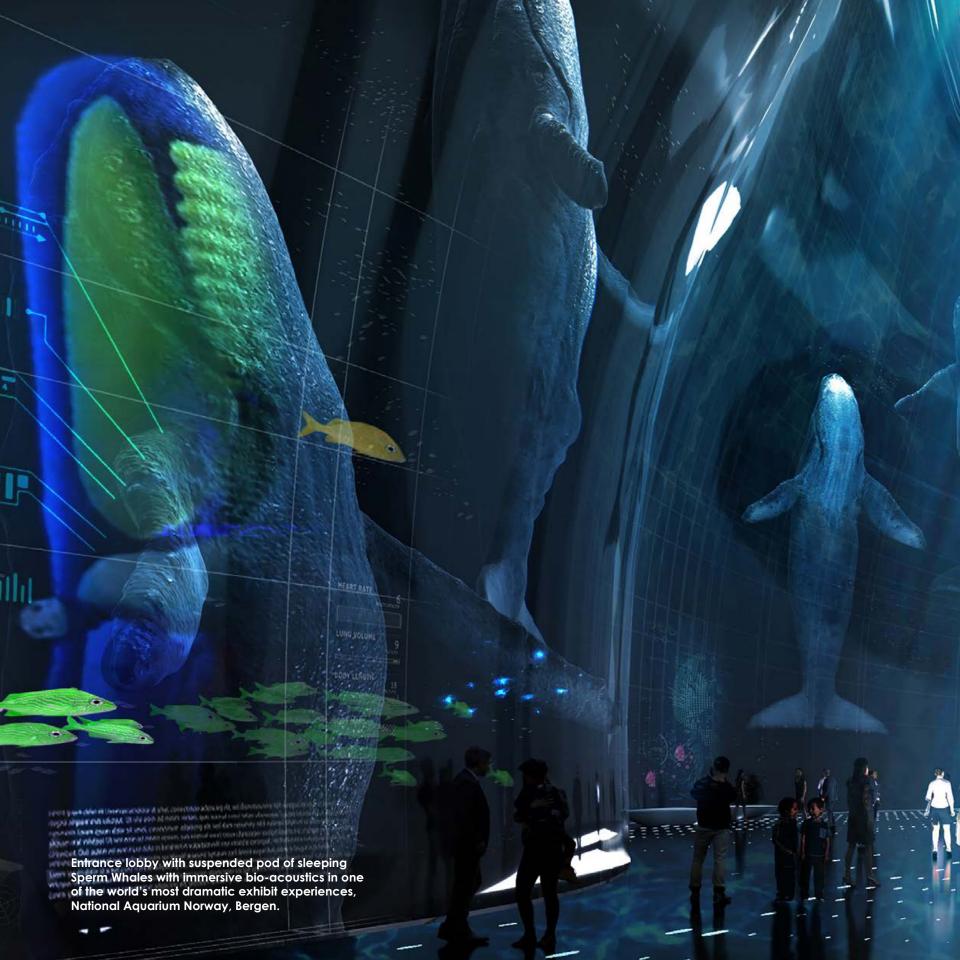


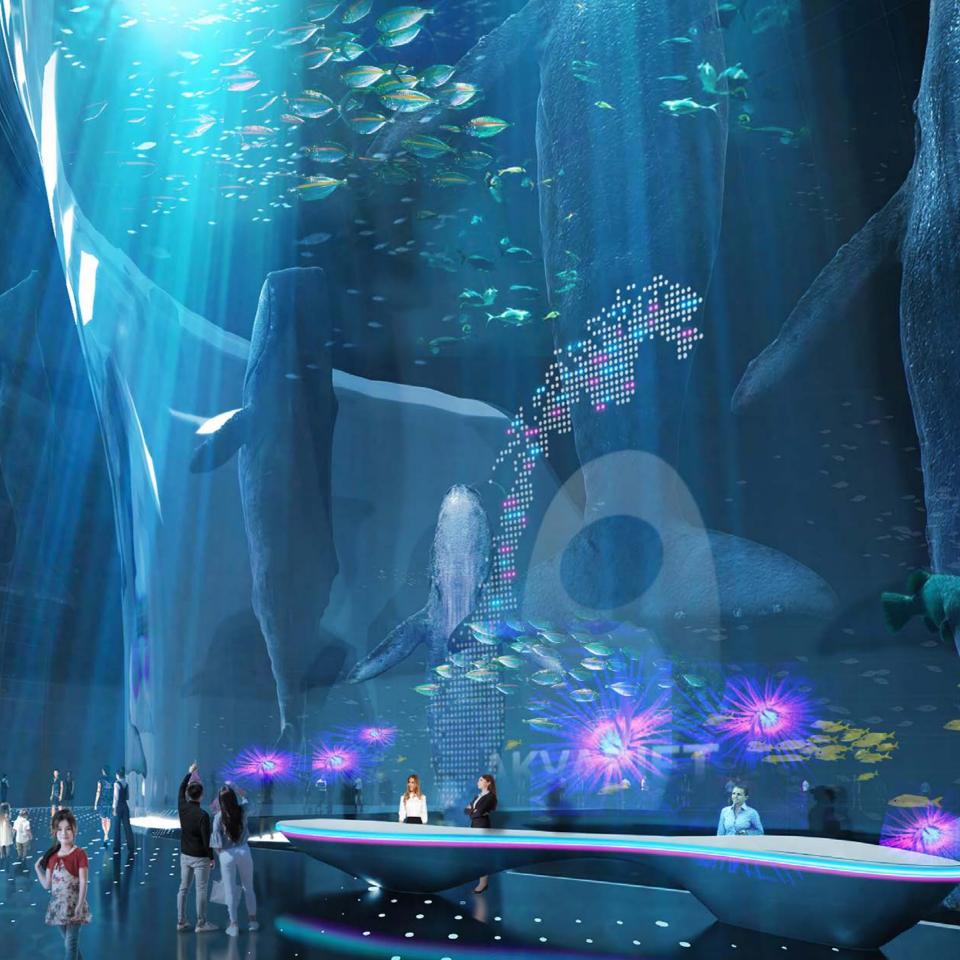












8 Grammy winning / nominee musicians came together to create and dedicate a song inspired by the BayEcotarium. Its mission aligned composition is a testament to the urgency to protect the oceans that sequester carbon, sustain life, and mitigate climate change.



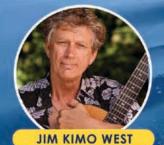
(The Police, 5X GRAMMY® Winner)



RICKY KEJ (GRAMMY® Award Winner)



(GRAMMY® Award Winner)



(GRAMMY® Award Winner)



(GRAMMY® Award Winner)



(GRAMMY® Award Nominee)



Singer | Songwriter



(GRAMMY® Award Nominee)

BE THE MOVEMENTThe BayEcotarium Song

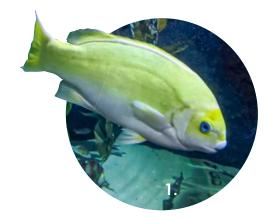






Mike McGill with a gift to honor his 25 years of service at Aquarium of the Bay.

Chris Low, Director of Facilities, is also celebrated for his 25 years of dedicated work for the Aquarium. Chris and Mike also received a commemorative Tissot sports watch.



ANIMAL CARE

With the Aquarium of the Bay reopening at 100% on June 14, 2021 to visitors, the Animal Care team set out to reach and surpass many milestones in our mission to provide the highest level of care for the animals within our 24,000 living collections, while supporting the organization through these unprecedented times.

For 25th anniversary of the Aquarium, Animal Care brought in 25 new species for the spring reopening, showcasing many new and interesting animals for members and visitors. The Animal Care team integrated these new arrivals into the existing collection, enhancing the exhibits and the visitor experience as the Aquarium reopened in the spring. With the Aquarium reopening, we were able

to conclude many projects that begun while doors were closed, from deep cleaning some exhibits to breaking down and rebuilding others for improvement and repair.

The pandemic and ensuing shutdown caused continued challenges to many operational facets of our team, including the volunteer program that is crucial to the well-being of our animals. With that program coming to a virtual standstill, the Animal Care team took on the challenge and succeeded in restarting it this year by recruiting over 40 volunteers who have volunteered a total of over 2,800 hours. Of those, just over 2,200 have been diving hours. Those hours represent over 91 days of underwater feeding, cleaning, and assisting us in the care of the living collection in the main exhibits.

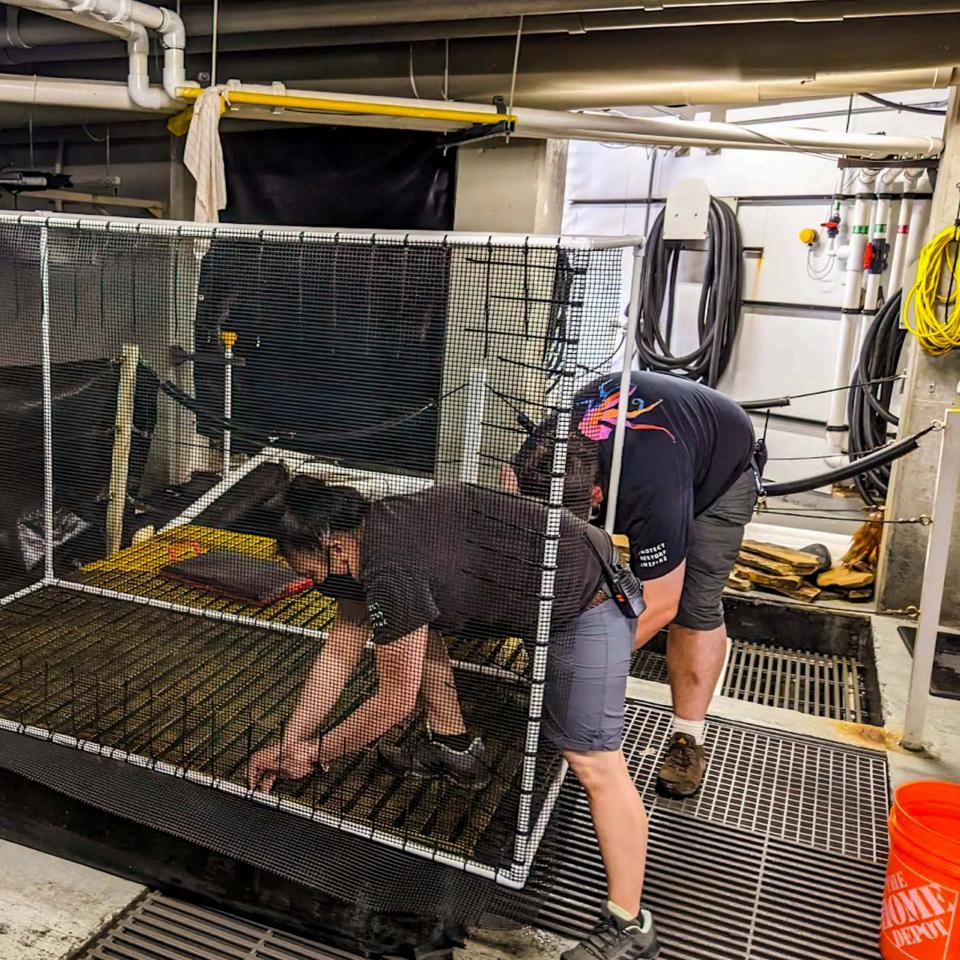




- A strikingly beautiful Opal eye which can be found in the Nearshore Tunnel exhibit.
- Biologist Isaac Koyama working in the California ground squirrel exhibit. Woolsey, our squirrel ambassador, needs a significant amount of daily enrichment. She has lots of energy and is very curious, enjoying digging an extensive tunnel system each day as well as searching for hidden treats.
- 3. A juvenile Pacific chorus frog, one of 15 frogs that are currently being raised behind-the-scenes until they are big enough to go on exhibit. The frog in this photo is about the size of a nickel, it will take 9-12 months for it to grow large enough to safely go on display in the Bay Lab.









As our Aquarium resumed operations this past spring, the Animal Care team provided additional assistance to the organization as a whole, from helping Facilities with various equipment repairs and building maintenance, to interpreting and engaging with visitors on the floor, and more. The Animal Care team also provided critical assistance to other teams while maintaining focus on our primary mission of care for the animals.

Lastly, as the year progressed, the Animal Care team resumed collecting operations using the R/V Mike Reigle to gather new animals for the collection, safely and successfully release others, as well as leverage opportunities to continue

research in the field. Those opportunities enabled us to successfully tag and take samples on 39 broadnose sevengill sharks while in the field. It is believed that San Francisco Bay is the only known nursery for broadnose sevengill sharks along the West Coast, but little is known about the status of this species. To change this, Animal Care continues to find opportunities to help conserve and further understanding of this iconic species in the bay.

Associate Director of Animal Care Kevin McEligot (left) working with Biologist John Lui (right) to repair one of our two dive vacuum heads. These custom-made pieces of equipment are vital to cleaning the main exhibits.

 \blacktriangleleft

Biologist Noel Fong and Associate Director Kevin McEligot, preparing a large temporary enclosure to place over dens created for our wolf eels in the Nearshore Tunnel exhibit. This enclosure allowed the newly acclimated wolf eels to have some time to explore their surroundings and claiming some territory without having to be bothered by their tankmates.





Highlights

- 1,460 dives were logged in the Aquarium in 2021.
 541 from the Animal Care team, and 919 from our volunteers.
- It takes over 46,000 pounds of food about 890 pounds a week to keep the collection thriving.
 Biologists thaw, chop, blend, and supplement the food before feeding it to the animals. That's a lot of lifting!
- 10 wolf eels that were born at Aquarium of the Bay in 2018 graduated to the Near Shore Tunnel, where enterprising and patient guests can find them amongst the rockwork and dens.

- The North American River Otters and cape porcupine were vaccinated against COVID-19 as part of a COVID vaccine study with Zoetis.
- Over 200 captive-bred pacific spiny lumpsuckers were transferred to 10 institutions around the country, providing these institutions with the ability to display this unique species without having to affect the wild populations. Our Aquarium is one of only a handful of institutions with successful pacific spiny lumpsuckers breeding populations.
- 7 California bat rays were born in the Sharks of Alcatraz exhibit in the summer of 2021.





















GUEST SERVICES & RETAIL

On March 4, 2021, we reopened the doors for the 2nd time during the pandemic at 25% capacity. With guests 2 years old and up requiring masks or facial covers, the Aquarium implemented a one-way directional path for guests from entrance to exit and utilized the external northern stairs to aid with social distancing and air flow in the tunnels. With this improvement, we were able to reopen at 25% capacity. Within 2 months, San Francisco increased capacity to businesses like Aquarium of the Bay to 50% and was at 100% capacity by mid-June.

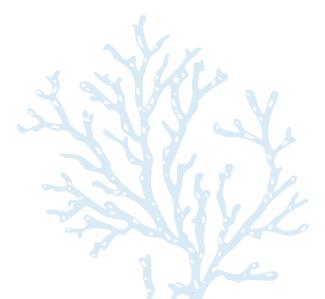
Due to both our budgetary needs and initially not knowing how the public would react to the reopening of a mostly indoor attraction, Guest Services adjusted the hours of operation from 10 hours down to 7. For our first year, the front facing staff of Guest Services would only work a one-shift schedule. With this, we were able to bring back 6

former staff members, some of whom were helping from other departments such as Education and Finance. Jaz Cariola, Director of Guest Services, was on the floor with the front facing staff as well until they could get a better understanding of visitors and recruit more staff. Due to the lack of staffing and the adjustment to travel returning to California, the Guest Services team decided early on not to operate the ticket sales booth at first. It was also decided we would not renew the lease of the PIER 39 ticket booth.

The Guest Services team had fluctuated with staffing levels since reopening, but was able to reach adequate capacity to meet the needs of the busy Summer season. With guest attendance showing a steady increase during the 3-week spread of Spring Break, we reached our goal to get the Plaza Booth location opened by Memorial Day.

Along with promotions, we were able to provide the team with wage increases to stay competitive, not only in the area,

- 1. Zenaida Nutterfield working at the Aquarium front desk
- 2. Pacific brown sea nettle
- 3. Visitors arriving at the Aquarium





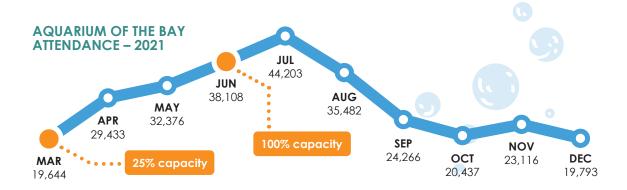


but in the return of employment post-COVID. It is still a struggle as we enter the holiday season, but the team Jaz put together is strong. For our second reopening, attendance flowed well from

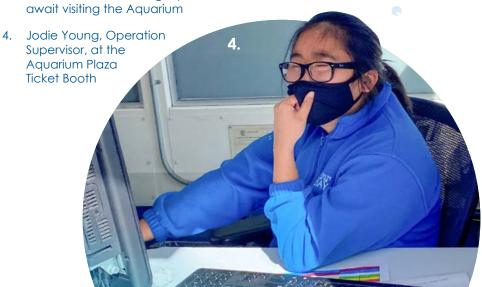
the moment we opened our doors. As kids returned to the classrooms, we saw the usual decline in attendance after Labor Day but weekends remain strong.







- 1. Ollie the otter greets a sailor during Fleet Week
- 2. Military vessel docked near PIER 39 during Fleet Week
- 3. A line of customers eagerly await visiting the Aquarium









OF THE BAY DURING FLEET WEEK

During Fleet Week in October, 38 of the 64 Blue Angels' team paid a visit to the Aquarium of the Bay after their air show over the water for the whole city to enjoy. Phillip Keeling, Director of Institutional Advancement, was able to contact their liaison and gave them an exclusive tour of our building. They were able to see behind-the-scenes, feed the fish, and have a Q&A session with a marine biologist. They looked as excited to be there as we were to meet them!







ONLINE ECOSTORE SEES GREATER DEMAND



Face Mask - Tentacles



Bundle | Shirt, Magnet, Tumbler, Mug



Bundle | T-Shirt and Bottle Opener/Coaster



Bundle | Tumbler, Magnet Postcard, Sea Lion Shirt



Aquarium H2GO Silo Tumbler



Soundtrack from Aquarium of the Bay



Aquarium of the Bay – Etched Shark Mug



Museum Futures: Gen Alpha (Hardcover)





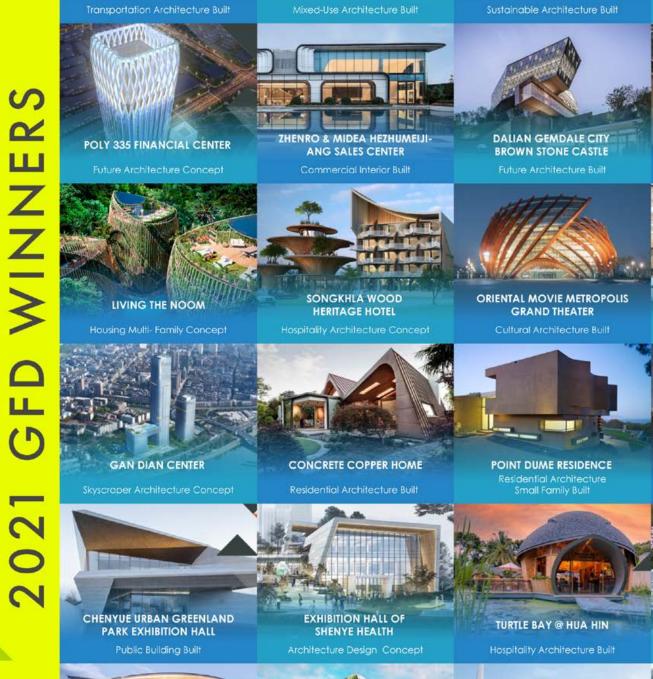




BayEcotarium: Climate & Ocean Living Museum

Global Future Design Awards is one of the world's most prestigious awards for architecture, interior, and product design. It recognizes outstanding ideas that redefine Architecture through engaging novel technologies, materials, programs, aesthetics, and spatial design that enables flexibility and digital revolution as it examines the organic symbiosis between nature and architecture.





MIT SITE 4

Cultural Architecture Concept

ECUMENICAL SPACE

IN VARGINHA

STRAIT CULTURE AND ART CENTER

Cultural Architecture Built



KERING MEXICO

Office Interior Design Built



Hospitality Architecture Concept



andscape Architecture Built



AGILE HOMETOWN TWIN LEAF ART MUSEUM

PARK & RIDE PARKING

FACILITY NANTES

Cultural Architecture Built

THE "EGG" - GARDEN, A TRIBUTE TO FABERGÉ

Public Landscape Concept

ALRAJHI GRAND MOSQUE

RAS BUFONTAS

FREE ZONE

Religious Building Concept



QINTIAN MUSEUM

Cultural Architecture Concept





EVENTS

Blue Marble Benefit 2021

The aquarium held the first in person post-COVID event combining TBI awards and the Blue Marble Benefit that brought together environmental advocates, patrons, members, sponsors, and supporters. The benefit was presided over by California Lt. Governor Eleni Kounalakis, with the keynote address delivered by former Prime Minister of Greece, H.E. George Papandreou at Hayes Mansion in San Jose.

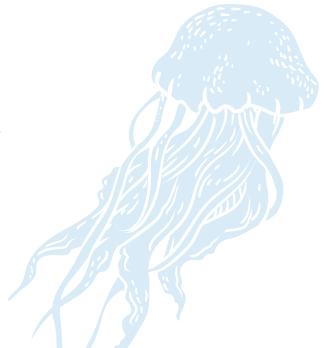
Michael Gallagher, the first General Manager of Aquarium of the Bay was honored in the presence of his family members and Visit California CEO, Caroline Beteta, for lifetime contribution to tourism and destinations across United States. Dr. Sylvia Earle received the first Blue Marble award conferred by Lt. Gov. of California Eleni Kounalakis for her lifetime dedication to ocean exploration, hope spots, and being a global voice for sustainable oceans.

- Dean Morehous, Board of Directors, addressing award winners and guests at The Bay Institute Annual Awards
- 2. Guests engaged in presentation during at The Bay Institute Annual Awards
- 3. Brian Baird attending the The Bay Institute awards

The Bay Institute 28th Annual Awards

The 28th TBI awards was a hybrid event held to coincide with World Ocean Day and the Blue Marble Benefit on June 8, 2021.

- Terry Young
 Bay Hero Award
- Martha Davis
 Carla Bard Award
- Chris Beaver Harold Gillian Award
- Bill Kier
 Lifetime Achievement Award



















TOURISM

After a tough 2020, 2021 was an exciting year for us. Not only were our numbers up from last year, but we had an even better summer than we did in 2019. We continued to keep strong relations with our OTAs. At the International Pow Wow (IPW), we made great new connections and grew our contracts with tour operators who also gave us a great head start on the next 40 contracts being sent out. Next year, we will be raising the price of all tickets across the board by 50 cents.

TRADE SHOWS



IPW 2021

Las Vegas Convention Center

Travel and Adventure

- Advertised EcoXpeditions and private event
- Connected with a new EcoXpedition partner for Baja, California

All Things Meetings

- Started a great relationship with Delta and Marriott Hotels
- Promoted our private event spaces and EcoXpeditions



- Director of EcoXpeditions Angelina Preza, left, and Manager of Events and Tourism Hannah Woodall at the aquarium's trade show booth during the Travel and Adventure show
- 2. EcoXpeditions booth at the Travel and Adventure show with Angelina Preza
- 3. Angelina Preza at the Aquarium of the Bay booth during the All Things Meetings show





With the release of her highly anticipated new book, Ocean: A Global Odyssey, Silvia Earle is touring the country for promotions and book signings. Aquarium of the Bay works closely with her, and hosted one of these events, **An Evening with Sylvia Earle**, on Thursday, November 18th, 2021 at The Bay Model in Sausalito. She spoke with the crowd, greeted her fans, and signed books while promoting the protection of our ocean and its beauty.

During the event, we were incredibly excited to announce that in recognition of Dr. Sylvia Earle's Lifetime Contributions dedicated to bringing Awareness and Action, Aquarium of the Bay has instituted the **Sylvia Earle Academic (SEA) Scholarship**.

Aquarium of the Bay invites applications from currently enrolled undergraduate and graduate students aspiring to specialize in environmental studies, ocean conservation, marine biology, sustainability and or policy work.

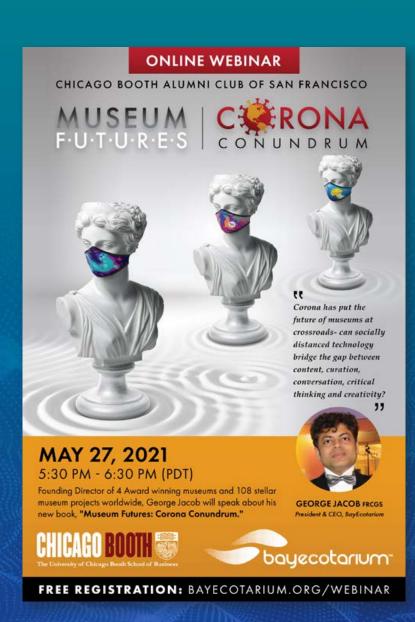
The \$8,000 scholarship winner will be named on World Ocean Day, (June 8th) each year and will continue over a 12-month period. We ask our applicants to include a 1,000-word essay highlighting their on-going work and aspirational impact they strive for, a current resume, enrollment details of the University program, and a letter of recommendation from a current faculty member and send it to us no later than March 31, 2022.

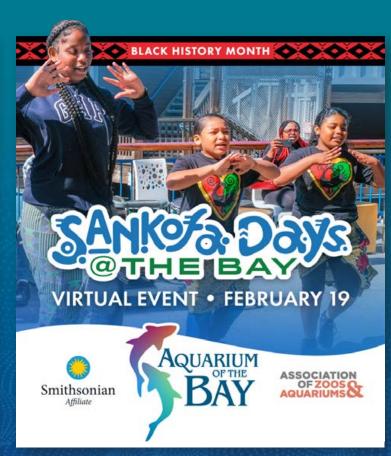


UNLOCKING THE LOCKDOWN -



















EDUCATION

When San Francisco moved into the most restrictive COVID tier the Sunday after Thanksgiving in 2020, the Aquarium was once again forced to close its doors. Since then, only one member of Education returned, but they transitioned to a different focus. It was not until May that there were two members as part of the Education team. While Education was not actively working with our guests on the Aquarium floor until August 2021, behind the scenes, the team worked on various projects to keep the learning process alive.

Trout in the Classroom



While the Aquarium remained closed, our Trout in the Classroom program was in session. In non-COVID years, new teachers take workshops hosted by Department of Fish and Game, prepare their Aquarium of the Bay sponsored tanks, and hatch trout fishery eggs while their students learn and study the process. For 2021, only six teachers opted to hatch eggs. The Aquarium picked up the eggs in February and delivered them to the teachers to raise. The teachers raised the eggs at home to the learning benefit of their students. A month later, the tiny trout were released into Lake Merced in the Southwest corner of San Francisco in accordance with a mandate from the Department of Fish and Game.

Grants



The aquarium successfully secured multiple grants throughout the year that supported our educational programs and outreach extension services. The Education team was successful in executing the third grant from the San Francisco Public Utilities Commission, securing another grant from the San Francisco Department of Children, Youth, and their Families for Summer camp, as well as a grant from the Bothin Foundation to teach 3D printing skills to underprivileged students for the benefit of low vision and non-sighted individuals.

- 1. Climate Change experiment
- 2. Campers creating craft otters
- 3. Campers locate and count the sea lion population on PIER 39



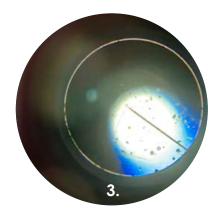
Summer Together

A major highlight for the Education team occurred in May to early August of this year. After spending the 2020-2021 school year online, the City of San Francisco wanted to increase the social and educational opportunities for its children by offering expanded free summer camp. By May, the San Francisco Department of Children, Youth, and their Families (CYF), reached out and asked if we would be able to host programs for these children. For the first time in over 15 years, Aquarium of the Bay hosted an all-day Summer Camp as part of the Summer Together program.

We hosted back-to-back-to-back sessions of summer camp starting June 7th and ending August 6th. The camp consisted of thematic weeks with topics like marine debris and plastics, watersheds, San Francisco Bay history, and climate change. Most days at camp started with a trip to the Aquarium for a mini-lesson and continued at the Sea Lion Center for the rest of the day. The days were broken up with outdoor games on the grass on the east side of the Aquarium or walking to local destinations for a lesson. The kids participated in plankton tows off the pier to see the samples under microscopes, walked to Aquatic Park to comb the sand for plastics, cleaned parks, observed and monitored the sea lions, and had a free afternoon enjoying Pier 39. The Education team would like to acknowledge Animal Care for all their patience and support in making this summer camp possible. They are more appreciated than they know.







- 1. Moon Jellies visit camp
- 2. Beach Day at Aquatic Park trying to locate plastics in the sand
- 3. Enlarged image of the plankton collected by campers

AQUARIUM OF THE BAY







High School Internship Program

We had an amazing partnership with the San Francisco Public Utilities Commission (SFPUC) for this project. This year, we completed a three-year internship grant that brought job training skills and flooding knowledge to all the participants. Like last year, the internship was virtual. Over the course of six weeks, seven high school students received almost 40 hours of paid instruction. which was over 20 hours more than the minimum grant requirement. SFPUC supplied the curriculum to learn about flooding and water management for the city of San Francisco, while Aquarium staff provided the delivery and job skills. The students learned not only where the water they see on the ground goes, but also how San Francisco is moving toward creating more green spaces to prevent water from going down the drain. The students received instruction about climate change and activism, news article bias, citing scientific sources, and how compelling social media stories and videos can bolster messaging efficacy. They were also taught critical interview skills and how to craft a strong resume to give them a strong start to their career down the line.

Virtual Aquarium Tours

In conjunction with the Sales team, Education continues to lead virtual online tours ranging from Pre-schools and families to corporate fun days. These tours have been ongoing since the reopening of the Aquarium.

Onsite Programs

One of the big causalities of the pandemic has been the on-site education programs. There were no Aguarium teacher-led programs or selfguided tours for most of 2021. Beginning in September, Education began preparing to roll out a very limited menu of on-site program offerings. Self-guided tours would be offered Monday through Thursday, while teacher-led programs would only be offered on Tuesdays and Thursdays. Currently, there are 25 self-guided tours with 631 students and 115 chaperones, for a total of 746 participants on the 2021 calendar. Thankfully, more Aquarium of the Bay teacher-led programs are scheduled for next year.

- 1. Camper discovers his love of microscopes
- 2. Camper has an up-close and personal experience with the moon jellies
- 3. Campers connect with the Blue Tongue Stink on the final day of camp







RYER KADYK MEETS RYER THE OTTER

Nine-year-old Ryer Kadyk came all the way from Spokane, Washington to do two things: hang out with his namesake river otter friend and raise money for Aquarium of the Bay. By all accounts, both efforts were extremely successful.

Ryer helped raise more than \$75,000 at a charity auction hosted by BayEcotarium. He gave a speech to 175 people, including the former prime minister of Greece, about his special friendship with the 8-year-old otter and even helped the auctioneer drum up enthusiasm during the event.

The first time the two Ryers met was just before spring break, when the Aquarium reopened after our 49-week closure. Ryer the human had been waiting to meet his furry friend in person since last Christmas, when his mom Carolyn first learned the pair share a name.

Since her son had never met anyone with the same name, she reached out to our staff and asked to buy a Ryer River Otter plush toy for him as a present. After opening his gift, Ryer was able to learn about the real otter from our website and soon decided to donate his Christmas money, cash from his piggy bank and a contribution from his older brother to the Aquarium. Together with a second round of fundraising that involved the rest of the family, Ryer was able to send his otter friend a total of \$750.

The family's unexpected donations were especially meaningful for us, since they arrived during the height of the pandemic while we dealt with daunting staffing and budgetary challenges. The connection Ryer has to his otter counterpart of the same name is inspirational





Ryer Kadyk





San Francisco Chronicle





















inverclydenow





SHANGHAI ON THE BAY... A HOLIDAY TASTING EXPERIENCE

Hosted at Cold Drinks Bar, this quasi-speakeasy was illuminated by a most opulent atmosphere reminiscent of jazz clubs of Shanghai 1930's.

Guests enjoyed the launch of the holiday season while dining on sustainable seafood and gourmet bites in the company of environmentally conscious and conservation minded individuals.

They were delighted with our holiday tasting experience brought by celebrity chef George Chen, Founder, CEO, and Executive Chef, China Live San

Francisco. Chef George Chen has opened such stellar dining establishments as Shanghai 1930 and Betelnut, with China Live San Francisco being the latest of his undertakings, an incredible multi-concept food emporium and epicurean destination. He was joined by Floyd Nunn, Chef de Cuisine, Eight Tables by George Chen, formerly of Quince and Benu.







FACILITIES AND LIFE SUPPORT SYSTEMS (LSS)

2021 has been a productive year for the Facilities/LSS team despite significant challenges with staffing and the Aquarium being closed to the public for the first half of the year that forced the staff to work with reduced hours, three shifts a day. Challenges continued with retention and continuity given the uncertainty of full resumption of operations and maintenance. Despite the circumstances, we were able to maintain all critical Life Support systems and carry out multiple in-house repairs, maintenance of equipment, cleaning protocols and a complete upgrades to exhibits. We were able to increase staff salaries to make all staff non-exempt, which helped with both recruiting, training and retention of facilities staff, as well as the ability to cover a 24/7 schedule without overtime or burn-out.



Highlights

- Repair work on shower mixing valve in Dive locker
- Replacement of damaged and molded drywall with Kydex waterproof sheeting as an added moisture barrier
- Stori Box and IT upgraded photo concession operation and switched retail POS with Story Box POS in R1
- Prepped and resurfaced multiple exhibit walls for graphic installs including reception and retail desks
- Followed Health Department guidelines for re-opening and adjusted as needed to stay in compliance with changing standards.
- 1. Copper rockfish
- 2. Wolf eel exhibit
- 3. North American River Otter

- Worked on the Jamaican Master Plan Life Support Systems for a 2.2 million gallon tank for the proposed Oceanarium
- Received multiple proposals for fire alarm panel work. Engaged ADT to start, and work is currently in progress
- Addressed red tag Crane hoist issues, and the Crane hoist is back in operation.
- Returned all sea lion statues back to Aquarium from across San Francisco
- Collaborated with Aquarium team on Blue Marble Gala event
- Submitted Green Business re-Certification requirements.















- 4. Chris Grace prepping the scuba equipment before Avery's dive
- 5. Avery and Jon Fisher, avid divers and aquarium supporters, diving in the nearshore tunnel exhibit. Avery is the youngest diver we have had dive at the Aquarium.
- 6. Chris Grace, Jon Fisher and Avery Fisher reviewing their dive plan before descending into the tunnels. Along with helping to care for the animals, Avery was able to get her Fish Identification and Underwater Digital Photography Certification.

AQUARIUM OF THE BAY



INFORMATION TECHNOLOGY (IT)

Reopening and Replacing Equipment

The IT team was able to welcome our guests back into the Aquarium with the reopening message on the website, which has been a significant improvement to morale. We were also able to update our screen software for all the front advertising displays that pull select reviews and Instagram photos for increased social engagement. While touch points like any interactive display inside the Aquarium is still not available, the IT team have done their best to change these to be automatic or have temporarily disabled them. As the Aquarium reopened in March, we noticed an issue with the SQL server that was causing periodic interruptions. The issue was investigated and was found to be an issue that would eventually cause the server to fail. A replacement was sourced, the database was copied, and the server was replaced. Along similar lines, we learned that the payment processor (BCAM) was dropping the credit card processing method, so a new merchant gateway was implemented before reopening.



- 1. Spiny Lumpsucker exhibit
- 2. North American River Otter exhibit
- 3. George Jacob, President and CEO, reviewing 3D prints and equipment

COVID-19 and continued struggles with timed ticketing:

With COVID challenges continuing for almost two whole years now, we had to roll with large sector changes in the industry. Re-opening with shifting stages and vague guidelines led to us being cautious about expanding the open slots for timed ticketing as attendance progressed from 25% to 50% and upward capacity.

New Software incoming:

Thanks to a generous donation, we were able to start the process of moving Animal Care files and records from our Salesforce server to a proper database called Tracks. This Animal Care software is purpose-built for the tracking and recording of animal welfare and training. While the current solution was serviceable, this software can supply a lot more functionality while being easier to support than the custom setup. Similarly, the Development team is going to move to Salsa CRM (Customer Relationship Management) which the new Director of Development, Phillip Keeling, is familiar with. Going into the new year, we look forward to both systems being set up and configured.



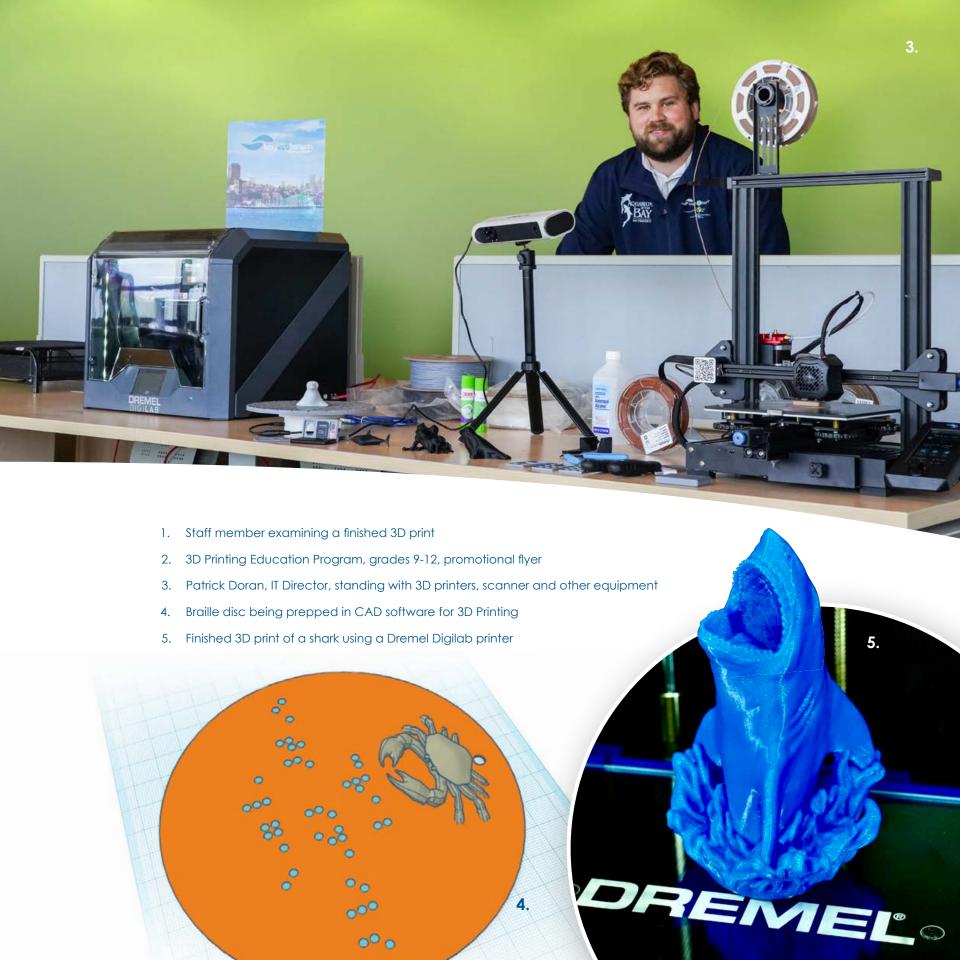


With the Education team supplying the grant, Patrick Doran, Director of IT Services, was given the opportunity to set up a 3D printing lab in the 55 Francisco office. He had never used a 3D printer before, and it was quite an experience to learn. As part of this process, we oversaw creating the files for the Education team. We did this by buying models from a stock website, and then modifying them to fit on the example platter. Then, we added the Braille using a braille generator in our CAD program. After creating the first batch of models, we were able to bring them to the East Bay Center for the Blind to make sure that it was on the right track with legibility and accuracy. The participants loved the examples, and one woman said that she loved that she could feel what a jellyfish looks like. Patrick split the parts, and students assembled the plate.

aquarium

PROGRAM REGISTRATION NOW OPEN

danielle@bayecotarium.org (A) 415.816.4212









Studio Aqua saw major success in the completion of another international aquarium consulting project, the concept for the future Jamaica Oceanarium in Montego Bay. Led by BayEcotarium President & CEO George Jacob through the Urban Development Corporation (UDC) in Jamaica, the concept for this state-of-the-art facility brought together a team of international experts including executive leadership from Aquarium of the Bay in Animal Care, Facilities & Life Support, Education, and Media.

We also worked with French architectural firm X-TU and Norwegian branding firm Brandity to design a comprehensive plan for the establishment of a facility in order to drive a narrative of ocean conservation awareness, appreciation, and climate action.

This is a major impact investment to foster an appreciation for and a connection to our oceans and natural environment as humans. Featuring a ferry or water taxi dock, multiple waterfalls, mangrove walkway paths, ocean-view restaurants, offices, classrooms, theaters, and a collection of mostly native animals, the team designed concept vignettes, educational content, architectural concepts, facilities and animal care needs, and tourism collaborations for optimal operation.

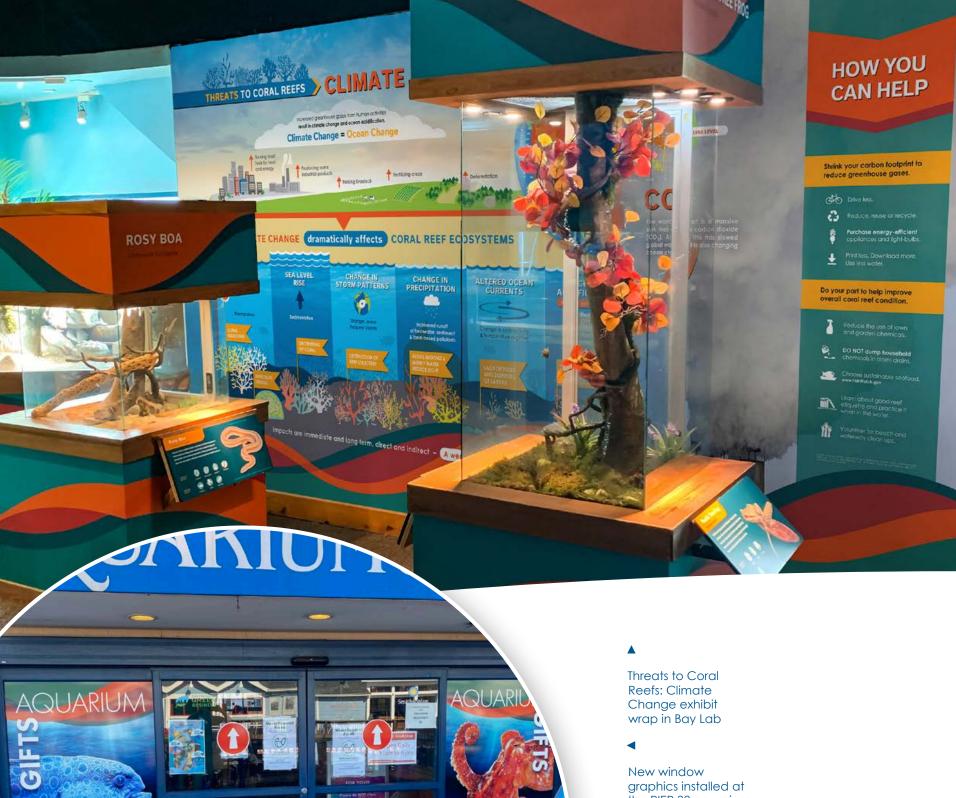
The Master Plan was finalized and presented to the Prime Minister of Jamaica, Mr. Andrew Holness in July 2021. The plan was extremely well-received and is currently moving into the second phase, the business & risk analysis

- Proposed site of the Oceanarium before construction begins.
- The Oceanarium phytoplankton waterfall as seen at night.
- Cover of the Jamaica Oceanarium Master Plan given to the Prime Minister of Jamaica, Mr. Andrew Holness
- 4. The exciting Oceanarium is thoroughly planned out, and the business and risk analysis stage is the next step.









Reefs: Climate Change exhibit wrap in Bay Lab

New window graphics installed at the PIER 39 aquarium gift ship entrance, replacing last year's sea lion anniversary promotion.





Ocean pollution exhibit wall installed in Discover the Bay

4

Cash and photo desks wrapped with new graphics in the aquarium gift shop





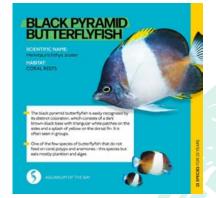
Social Media

Social media continued to be a main engine for promoting Aquarium initiatives into our 25th year of operation. Early into the year, social media continued to be utilized for virtual tours and events, including a virtual "Space Refractions" concert in late December and virtual Sankofa Days tour in celebration of Black History Month in February. Before the Aquarium opened in March, the social media team continued to plan and strategize for its 25th anniversary, which involved adding and promoting 25 new species to aquarium collections. A full list of new species was added to the external aquarium media kit and a social media post was made each week to describe each new species, their location for viewing at the Aquarium, a few fun facts, and pieces of relevant information as well. These were posted in conjunction with the 25th anniversary of the Aquarium.

When the Aquarium opened back up to the public on March 4th, 2021, this posed an opportunity to phase out of virtual-based engagement and refocus on in-person engagement at the Aquarium of the Bay. Continuing to promote COVID-19 protocol was integral in enabling that transition. Timed ticketing, reduced capacity, increased sanitization stations, mask requirements, and social distancing guidance continued to be promoted and adapted to meet city and state regulations, as well as providing a higher level of comfort for guests.

Social media was also tapped into significantly to promote the new EcoXpeditions division, diving for citizen scientists dive course, updates to the Ecostore, a "TAHOE" \$5 off discount code, and events such as the 2021 TBI Awards, Blue Marble Benefit, Fleet Week Watch Party, an Evening with Sylvia Earle, Underwater Pumpkin Carving and River Otter Snow Days.

1.









- Social media species campaign
- 2. Volunteer social media post
- 3. Fleet Week discount promotion
- 4. Underwater pumpkin carving
- 5. EcoXpeditions
- 6. Earth Day greetings
- 7. An Evening with Sylvia Earle book signing event
- 8. Celebrating 25 years with 25 new species























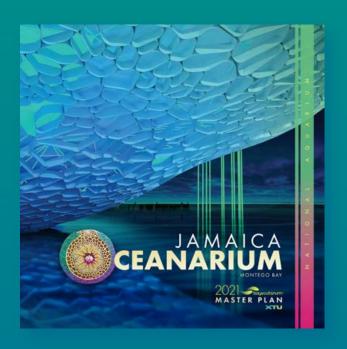






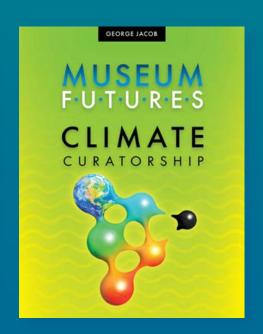






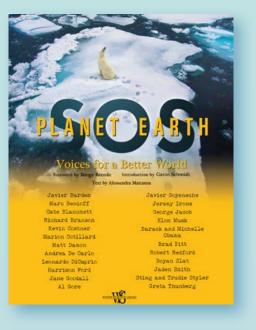




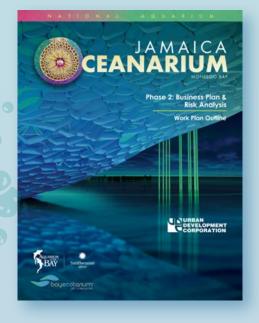






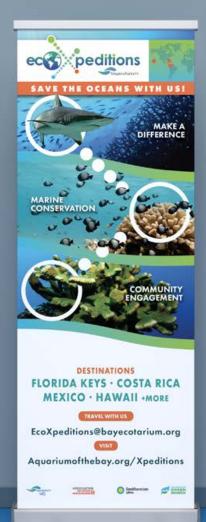




















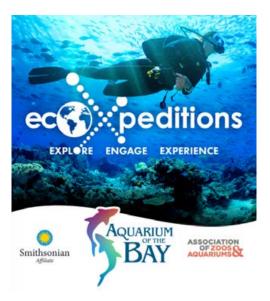








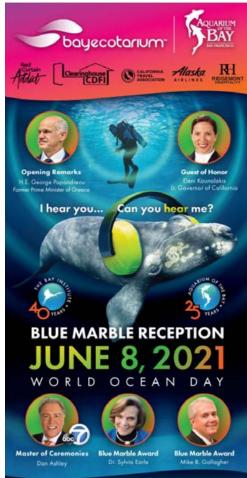


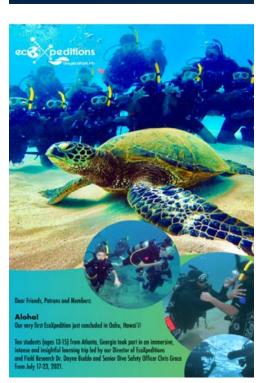




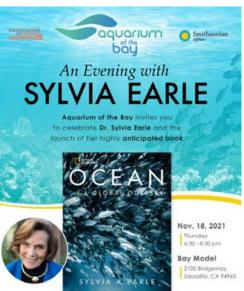












Various mastheads from 2021 email campaigns







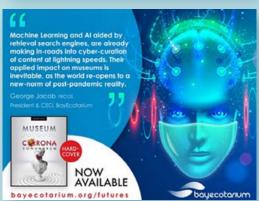


















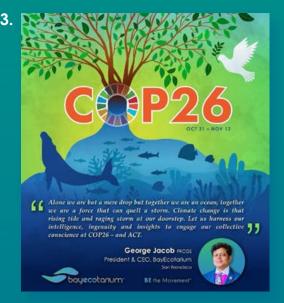




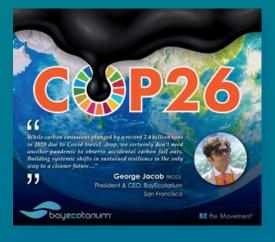
Quotes from MUSEUM FUTURES: Corona Conundrum book for social media.

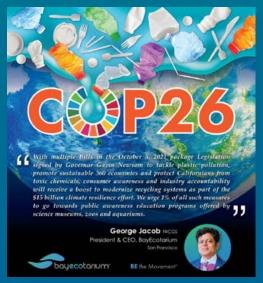






- 25 years of ocean
 conservation
 digital banner
 for Aquarium
 of the Bay
- 2. Digital poster celebrating the anniversaries for The Bay Institute and Aquarium of the Bay
- 3. COP26 quotes for social media





1.



- 1. Blue Marble Benefit reception promotional banner
- 2. Save the Date featuring a Napoleon Wrasse
- 3. Save the Date featuring a Leopard Shark

- 4. Step-n-repeat backdrop for the Blue Marble Benefit blue carpet photo
- 5. Gift back for Blue Marble Benefit guests





3.

120



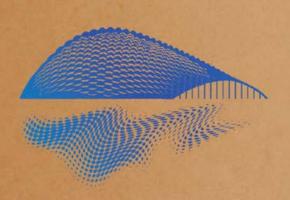
ecosynthesis our future

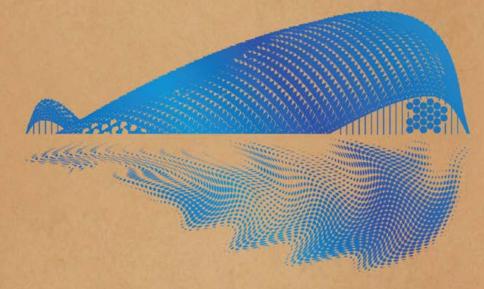




Environment Education is potential set in motion. The vision for BayEcotarium is exceptional and will accelerate a generational movement for our Blue Marble.

DR. JILL BIDEN
First Lady of the United States





We envision a landmark environmental edifice dedicated to climate literacy and ocean conservation, the BayEcotarium is our future and the future is now

GEORGE JACOB FRCGS
President & CEO, BayEcotarium









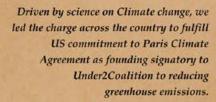


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It is not just our climate, but our culture, our lives and the coming generations that are being threatened....
But this threat may also contain an opportunity, the good news being that it gives us the possibility of working together to build a better world.

H.E. GEORGE PAPANDREOU

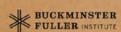
Prime Minister of Greece





Lieutenant Governor of California

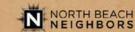














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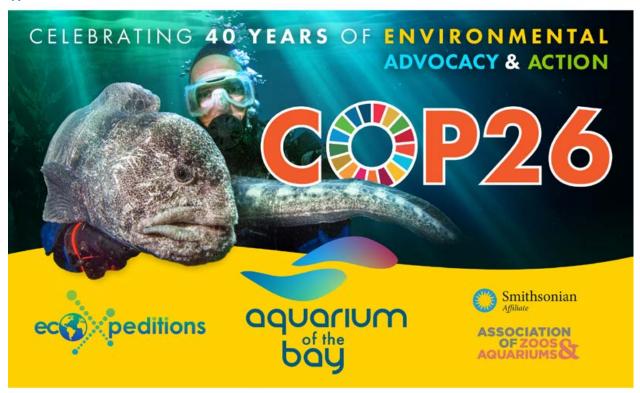








1.





- 1. COP26 email signature
- 2. Anniversary email signature
- 3. Website pop-ups for Fleet Week, EcoXpeditions, and Face Masks
- 4. New web-pages launched for EcoXpeditions and 3D Printing Lab education program













Overlooking K-Dock in the marina adjacent to PIER 39, the Sea Lion Center interprets the colony of wild California sea lions now permanently established in this unusual urban location. The Center provides free educational programming on the natural history of California sea lions and the environmental threats they currently face.

- 1. Child viewing exhibits at the Sea Lion Center
- 2. Free presentation at the Sea Lion Center







SEA LION CENTER

SEA LIONS IN SAN FRANCISCO MAKES STEAM HISTORY

After an 18-month public presence on the Embarcadero, Union Square, Moscone Center and at PIER 39, California's largest public STEAM Program with 30 painted six-foot tall Sea Lion statues wrapped up this year. Photographed by thousands of visitors, the Sea Lions made their social media presence felt with selfies, funny postings, and environmental messaging around the world.

Launched last year before the pandemic shutdown, the Sea Lions in San Francisco initiative by the Aquarium was a culmination of a juried selection of 30 Bay Area artists, marking the 30th anniversary of their arrival on Pier 39 following the Loma Prieta earthquake. Mayor London Breed proclaimed January 16th, 2020 as Sea Lion Day in San Francisco!

Each Sea Lion statue carried a QR code with an artist's profile and the corresponding environmental message depicted on the statue. What made the project fun was thousands of school children from across state lines joining hands in painting thousands of mini sea lions in support of our mission of protecting and preserving the San Francisco Bay and its rich marine biodiversity. While Naturalists from the Aquarium offer free public engagement at the worldfamous K-Dock where hundreds of noisy sea lions hang out, the Sea Lion Center located right above offers exciting and engaging programs for school children year-round.























THE BAY INSTITUTE



The Bay Institute (TBI) is the policy, research, and advocacy arm of Bay.org. TBI's scientists and policy experts work to protect the San Francisco Bay estuary's unique fish and wildlife species; restore the habitats and processes that support a healthy ecosystem; promote sustainable water and land management practices; and measure how well the ecosystem - and management efforts to protect it - is doing. To achieve these goals, TBI conducts technical analyses, engages in regulatory, legislative, and voluntary decision-making processes, and educates media, decision-makers, and the public on key issues.



San Joaquin River restoration

Construction of Friant Dam by the U.S. Bureau of Reclamation in the 1940s destroyed the state's largest Chinook salmon run. After helping negotiate (along with partner organizations) a historic 2006 agreement to restore flows and fisheries to the dewatered reaches of the river, TBI now works with the Restoration Administrator and Federal Restoration Program to implement the agreement. Year round flows and salmon reintroduction began in 2016. Three years later, salmon returned naturally to the river to spawn for the first time in over half a century. TBI is a technical advisor to the federal-state-water user collaborative science effort to improve conditions for smelt and other species. We are incredibly proud of the work TBI has done for these fish.

- Worked with the Restoration Administrator to schedule flow releases to preserve habitat quality and temperature benefits for salmon under challenging conditions – a critically dry year with less than 30% of average runoff – and to update the formal guidelines for flow scheduling.
- In a new report, TBI documented water quality conditions and the status of monitoring for water quality in the San Joaquin River Restoration Program ecosystem.
- Studied the effect on the restoration effort of excessive surface water and groundwater diversions in reaches of the river below Friant Dam.
- Produced a report detailing the status of flow gauging in the San Joaquin River Restoration Program area that served as the basis for the Bureau of Reclamation's Flow Monitoring and Management Plan.
- In order to protect fish and flow conditions, protested (with the Natural Resources Defense Council) applications for new water rights on San Joaquin River flood bypasses.



Protection for endangered species and ecosystems

Existing state and federal regulations to protect endangered or rare Bay-Delta aquatic species and the habitats and processes they depend on to survive and flourish are clearly in need of updating. Many native fish populations have declined to record or near-record low levels in recent years. TBI continues to play a leadership role in defending and improving management actions for native species like Chinook Salmon and Delta Smelt. TBI's technical analyses provide the scientific basis for large-scale improvements in flow and habitat conditions to support endangered species and ecosystems. TBI also works to secure regulatory and management changes to achieve those needed improvement and to oppose water development projects and water management policies that would further undermine environmental conditions.

- Opposed the U.S. Bureau of Reclamation's proposed operation of Shasta
 Dam on the Sacramento River during this critically dry water year because of
 concerns about how operations would degrade temperature conditions for
 endangered Chinook salmon and other species. 2014-2015 Shasta operations
 devastated those winter and spring-run salmon year classes. TBI analyzed
 Reclamation's proposed operations and provided expert testimony and
 supporting materials to the State Water Resources Control Board regarding the
 effects of those operations on the ecosystem.
- Completed Phase 1 a series of expert workshops to define targets for abundance, diversity, productivity and spatial distribution of salmonids for our Salmonid Recovery Project. This is a collaboration with government agencies, water users, and other stakeholders to prioritize actions to restore healthy salmon and steelhead populations in the Central Valley.
- Continued long-term technical efforts to study the role of the freshwater plume from San Francisco Bay on coastal fish and wildlife, and to identify and evaluate new management actions to reverse the decline of Delta smelt, a once abundant forage fish that is now the rarest species in the estuary.
- 1. San Francisco Bay Delta Estuary
- 2. California Brown Pelican (endangered)
- 3. San Francisco Bay, Satellite View
- 4. Delta Smelt (endangered)
- 5. Commercial fishing boat in San Francisco Bay
- 6. Chinook salmon (endangered)









THE BAY INSTITUTE



Agricultural water pollution

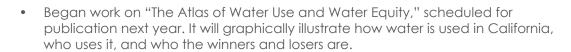
Agricultural runoff is the single largest source of contaminants for aquatic ecosystems in the United States. The problem is particularly acute in the San Joaquin Valley, where irrigation of semi-desert soils leaches salts and toxic trace elements like selenium into shallow groundwater and surface waters, causing fish and bird deformities and deaths. Over the long-term, polluted runoff also threatens drinking water quality and agricultural productivity. TBI has successfully worked over the years to close toxic agricultural runoff ponds, stop completion of a master drain from toxic lands to the estuary, and eliminate selenium-tainted discharges to the San Joaquin River.

- Made the case, based on the best available science, that the San Francisco Bay and Central Valley Regional Water Quality Control Boards should adopt new, more protective selenium standards – 3 parts per billion (ppb) for rivers, 1.5 ppb for freshwater wetlands and sloughs, and 0.2 ppb for estuarine waters – instead of the current, inadequate 5 ppb standard.
- Worked with agricultural dischargers to ensure that the voluntary 2 ppb selenium target stronger than the current 5 ppb standard was met in the San Joaquin River.
- Worked with urban water districts to prevent weakening of salt discharge requirements.



The Bay Institute publications

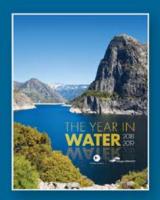
TBI's publication history includes many pioneering works, including the first comprehensive ecological history of the Bay-Delta estuary-watershed and the first ecological scorecard for the estuary.





- 1. Agricultural runoff
- 2. Selenium-induced waterbird embryo deformity
- 3. Black-necked Stilt

THE BAY INSTITUTE PUBLICATIONS



The Year in Water 2018 & 2019



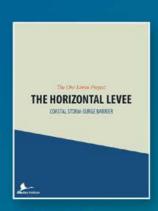
From the Sierra to the Sea 20th Anniversary Edition



Protecting Our Marine Treasures 2017



Golden State Waters 2016



Horizontal Levee: The Oro Loma Project 2016



San Francisco Bay Freshwater-Starved Estuary 2016



Horizontal Levee Cost & Benefits 2013



Collateral Damage 2012



Salmon Viewing Map



Gone With the Flow 2010



Drainage without a Drain 2003



SCAN TO VIEW PUBLICATIONS



UTE

1981

The Bay institute (TBI) was founded.

1984 - 1989

Through a combination of public advocacy and annual scientific conferences, TBI works to understand and publicize the tragedy of dead and deformed wildlife at Kesterson from selenium-tainted drain-water.

1986

TBI makes the "case for the Bay" in state proceedings to set new water quality standards.

- 1988

1987

TBI's "Citizens' Report on the Diked Historic Baylands of San Francisco Bay" catalogues the Bay's remaining wetlands for future protection.

1992

Coalition led by TBI and Save the Bay secures passage of federal water reform bill (Central Valley Project Improvement Act).

1994

After forcing the Environmental Protection Agency to disapprove inadequate state standards, TBI and partners negotiate Bay-Delta Accord to establish stronger water quality standards for the estuary.

1996

TBI's efforts to prevent agricultural water pollution in the San Joaquin Valley result in thousands of acres of toxic evaporation ponds being closed or modified and in agreements to eliminate toxic farm runoff over the long term.

HE.

BAY

1998

TBI publishes "From the Sierra to the Sea: The Ecological History of the San Francisco Bay-Delta Watershed," the first and only comprehensive analysis of the entire estuary and its watershed.



STRAW (Students and Teachers Restoring a Watershed), TBI's environmental education project, is launched, eventually completing over 100,000 linear feet of stream restoration.

	2003	TBI issues first ever Ecological Scorecard for San Francisco Bay estuary
	2004	Wetland victories include helping preserve 1,769 acre Tolay Lake Ranch and prevent development of an additional 1,800 acre site in the North Bay 2005 landmark agreement is reached to improve flows and habitat on the Yuba River, home to the state's healthiest remaining salmon run.
	2006	Historic settlement is reached to restore flows and fisheries to the dewatered San Joaquin River.
	2008	After TBI and its allies successfully challenge inadequate Endangered Species Act protections for endangered delta smelt and Chinook salmon, the federal government issues new, stronger requirements for both species.
	2013	TBI issues "Horizontal Levee" report on using Bay marshes to control storm surges, catalyzing construction of the Ora Loma horizontal levee, competed in 2019.
	2016	TBI convenes Golden State Waters Summit, resulting in action plan to protect nearshore coastal waters from marine debris, overfishing, acidification and other threats.
	2018	TBI-led coalition wins first major improvement of Bay-Delta water quality standards in over 20 years
	2019	As result of 2006 settlement, spring-run Chinook salmon return to the mainstem San Joaquin River to spawn for the first time since the 1940s.
	2020	As result of 1997 agreement, zero discharge of westside agricultural discharge to the San Joaquin River is achieved.
	2021	TBI and a broad coalition of interest groups initiate a multi-year project to define and achieve recovery of all salmon and steelhead populations in the Central Valley.



BAY MODEL ALLIANCE

One of bay.org's divisions, The Bay Model Alliance, is comprised of The Bay Model and the Bay Model Visitor Center. Together, the two form a research and education facility built by the U.S. Army Corps of Engineers. Inside is one of the most fascinating scientific tools in the world: a working hydraulic model of San Francisco Bay and the Sacramento-San Joaquin River Delta systems that simulates tides, currents, and sediment movement the Bay Model is used by scientists and engineers.

What makes the model special is that its pipes and hydraulics make it a real simulation of the water environment of San Francisco Bay and the Delta. The analog model is used to simulate the effects of everything from oil spills, upstream dams, and water diversions to floods caused by global warming. The Bay Model Visitor Center provides a variety of public events and educational programs each month.



The location provides a stunning venue for special events and presentations. Tours are available for groups with advanced reservations and can be tailored to the technical sophistication of the group. The Corps of Engineers also makes the Visitor Center available to scientific and educational groups for meetings and seminars. As part of the alliance, bay.org assists in retail and merchandise.





- 1. The Bay Model in Sausalito
- 2. Scale model of Golden Gate Bridge
- 3. Child exploring The Bay Model
- 4. Guests gather around the working hydraulic model at The Bay Model
- Lt. Col. Kevin P. Arnett and George Jacob, President and CEO of BayEcotarium, at the Sylvia Earle National Geographic book launch at the Bay Model in Sausalito
- The Bay Model working hydraulic model of San Francisco Bay and the Sacramento-San Joaquin River delta systems







Bay Academy continued to outreach and educate in several ways in 2021, both virtually and in-person. Virtual tours saw large success and developed into opportunities for corporate team building events, birthday parties, public behind-the-scenes tours, and other custom preferences! In February, the annual Aquarium celebration of Black History Month, called Sankofa Days at the Bay, was changed from an in-person event at the Aquarium to a virtual tour. Special thanks to NorcalMLK Foundation and SF Links for partnering with us for that event.

In-person outreach took the form of citizen-science diving programs with Monterey Bay Scuba in Breakwater Cove, Monterey. Participants had the chance to sign up for 3 individual specialty certifications recognized by PADI including peak performance buoyancy, underwater digital photography, and fish ID. Divers were able to complete all 3 specialty certifications in 2 days down in Monterey, CA.

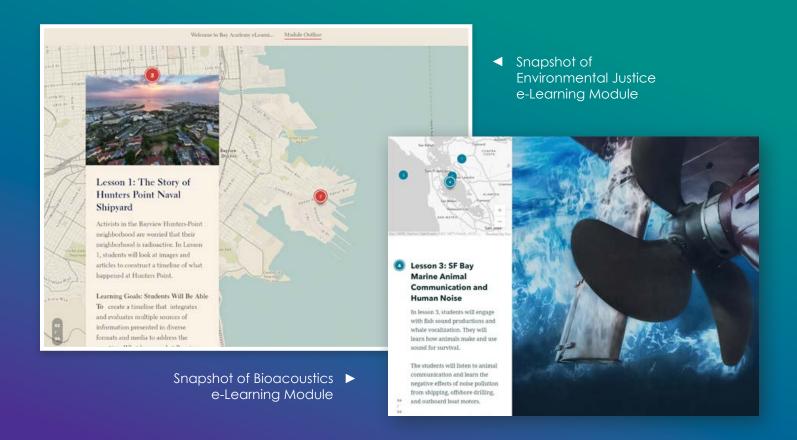


Bay Academy Ed-Ventures

A new program called Bay Academy Ed-Ventures was also created thanks to SOFAR Ocean. With a donation of a SOFAR ROV we were able to live-broadcast exploration dives with the ROV in the Monterey Bay, which also included an educator/naturalist to guide students and classrooms on what they were seeing!

- 1. Diving for Citizen Scientists Course students
- 2. Hunter Coughlin, Studio Aqua Multimedia & Promotions Manager, sets up the ROV on shore as part of Ed-Ventures





CLIC Program

The CLIC (Climate Leadership Innovation Certificate) Initiative is a week-long professional certification that will be administered by professionals and knowledge experts in locations around the world experiencing environmental distress. The program case references site specific action, where policy interventions and appropriate technologies are being applied. CLIC encourages fostering environmental leadership from underserved communities and the developing world with thoughtful leadership on key emerging topics that will shape our collective future. It will convene regional and global forums and serve as a platform for leaders across the globe to engage with peers and subject matter experts on key strategic issues related to oceans such as energy, environment, food, health, disaster resilience, security, prosperity, and governance. Through strategic foresight and macro-level water analysis as a common denominator of environmental stewardship, leaders will learn practical, innovative courses of action for change.

e-Learning Modules

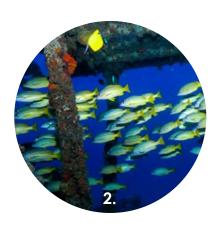
We also created 2 brand new e-Learning Modules to educate about Bioacoustics in the San Francisco Bay, and Environmental Justice & Injustice in Bayview Hunters Point in San Francisco.





We launched EcoXpeditions in 2021 as a dedicated new branch of BayEcotarium with upcoming marine conservation field trips worldwide to bring guests up close and personal to hands-on climate conservation work and marine life education.





Summer is an excellent time to reach out to students for these once-in-a-lifetime experiences. They'll be learning about marine protected areas, participating in coral restoration, observing strategies for adaptation to climate change, conducting underwater marine assessments, and engaging with the local community and culture.

That happened this year, as 10 teen students from the Atlanta area, accompanied by 9 parents, arrived on Oahu to become PADI certified, focus on the Oahu Marine Protected Area, and assist with coral restoration during their 6-night and 7-day EcoXpeditions ocean adventure.

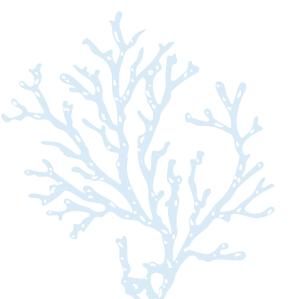
Highlights of the Hawaii experience included coral and fish ID dives, learning and volunteering with the community on sustainable and traditional aquaculture

at the Loko Pa'aiau Fishpond, working with the local community on traditional Hawaiian agriculture, and diving in the fields to help restore a loi at the Papahana Kuaola and Kakoo Oiwi, and much more.

Land adventures included a rainforest hike to Manoa Falls and a visit to Pearl Harbor. There, the group was given a presentation by educator and climate activist Kyle Kajihiro for a unique overview and history of this historic place. A special Hula presentation from a local Halau graced the traditional Luau. Our Hawaii EcoXpeditions garnered nearly \$80,000 in revenue.



- Students diving on EcoXpedition in O'ahu, Hawaii
- 2. School of Bluestripe Snappers in O'ahu
- Students from Frank Ski Foundation finishing their dive certifications in O'ahu, Hawaii









COME EXPLORE THE OCEANS WITH US!













2.

EXCITING AND MEANINGFUL GLOBAL ECOXPEDITIONS SCHEDULED FOR 2022

BAJA, MEXICO: February 6-12, 2022

- Education and workshop on humpback whales
- Ocean visit to see the humpback whale babies with their mothers
- Scuba dive and snorkel with manta rays
- Visit ancient caves with petroglyphs
- Visit freshwater waterfalls and soaking in hot pools
- Tree reforestation with local community

MAUI, HAWAII: February 21-27,2022

- Education and workshop on plastics in the ocean and beaches
- Snorkel and scuba dive at Molokini Island and Black Rock
- Educational talk and visit to Maui Ocean Center the Aquarium of Hawaii
- See sea turtles and humpback whales, Hawaiian arts and dance

HAVANA, CUBA: March 6-12, 2022

- Training workshop on invasive species and removal with marine biologist
- Walking tour of Havana, an UNESCO World Heritage Site
- Playa Larga National Park excursion of various coastal marine ecosystems, including mangrove forests
- Meet with Cuban marine conservationists on marine protection

LESVOS, GREECE: March 20-26, 2022

- Visit Mission Blue's newest hope spot the Aviaki hope spot off of Lesvos Island
- Snorkel and scuba dive at Petra and Mirmigi Reef
- Meet with Starfish Foundation
- Visit to Mytilene Castle and Museum
- Excursion for birdwatching
- Hike in the wetland of Kalloni, home to 100 bird species
- Ouzo and olive oil tasting with the local community



- 1. Sea turtle in Hawaii
- 2. Parrotfish
- 3. Moray eel



BAJA, MEXICO: March 29-April 4, 2022

- Educational talk and workshops on humpback whales and whale sharks
- Day trip to La Paz to snorkel and swim with the whale sharks
- Scuba dive and snorkel with sea lions on La Reina Island
- Tree planting and reforestation efforts with local community
- Local Mexican folkloric dancing with students
- Day trips to Cerralvo Island, also known as Jacques Cousteau Island for scuba diving, snorkeling and swimming

O'AHU, HAWAII: April 3-9,2022

- Coral restoration and coral reef survey dives
- Visit to marine-protected areas
- Cultural and community field work with Taro and agricultural fields
- Native fish ponds and watershed conservation

BELIZE: May 15-21,2022

- Education and diving at Belize's largest marine-protected area, Turneffe Atoll
- Dives at one of the Caribbean's largest underwater wrecks, along with West Wall dives
- Land adventures cave tubing and ziplining
- Visit to Belize Wildlife Sanctuary and Zoo and its rehabilitation programs

BAJA, MEXICO: June 1-8, 2022

- Educational talks and workshops on humpback whales and whale sharks
- Day trip to La Paz to snorkel and swim with the whale sharks
- Scuba dive and snorkel with sea lions on La Reina Island
- Tree planting and reforestation efforts with local community
- Local Mexican folkloric dancing with students
- Day trips to Cerralvo Island, also known as Jacques Cousteau Island for scuba diving, snorkeling and swimming

COSTA RICA, GOLFO PAPAGAYO: June 12-19,2022

- Horseback ride and hiking in the lush biodiversity of Arenal Volcano National Park
- Shark and ray identification and training workshop
- Marine conservation and underwater monitoring
- Field tagging sharks in Papagayo Gulf
- Land adventures including soaking in geothermal pools
- 4. O'ahu, Hawaii
- 5. Angelfish
- 6. Coral surveys in O'ahu



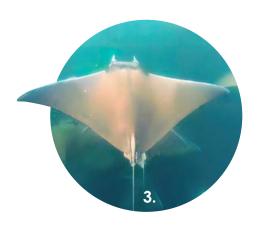












COSTA RICA, GOLFO DULCE: June 22-July 1, 2022

- Workshop and training on biology and conservation of sharks
- Hammerhead shark tagging
- Exploration of different coastal marine ecosystems including wetlands, and coral nurseries
- Shark and ray identification and counts

BIG ISLAND, HAWAII: July 7-14, 2022

- Blackwater scuba diving off of Kailua Kona
- Snorkel and scuba diving with manta rays at Kailua Kona
- Visit to Seahorse farm
- Visit to world-famous Kona coffee farms
- Education and workshops on sustainable ocean farming

FLORIDA KEYS, MIAMI, FLORIDA: July 24-30, 2022

- Sea urchin education and collection of invasive species
- Visit to Frost Science for behind-the-scenes tour
- Marine conservation presentation
- Visit Mote in the Keys for coral conservation work
- Muve shoreline restoration
- Education session on South Florida environmental conservation efforts

O'AHU, HAWAII: August 8-15, 2022

- Coral restoration and coral reef survey dives
- Marine protected areas
- Cultural and community field work with Taro and agricultural fields
- Native fish ponds and watershed conservation

LESVOS, GREECE: September 26-October 2, 2022

- Visit Mission Blue's Newest Hope Spot the Aviaki Hope Spot off of Lesbos Island
- Dives at Mirmigi Reef and Petra
- Meet with Starfish Foundation
- Visit to Mytilene Castle and Museum
- Excursion for birdwatching and hiking in wetland of Kalloni, home to 100 bird species
- Ouzo and olive oil tasting
- 1. Snorkel with Sea of Cortez Protected Sea Turtles near La Ventana
- 2. EcoXpeditions partner, Aquatic Life Divers, in Kailua-Kona, Hawaii
- 3. Snorkeling with Manta Rays gliding through clear waters of Sea of Cortez





BAJA, MEXICO: November 1-7, 2022

- Presentation on whale migration
- Scuba and snorkel with whale sharks and grey sharks
- Swim with giant rays and sea lions
- Land community efforts in reforestation with locals
- Protecting turtle nesting on beaches of Sea of Cortez
- Visit to Cerralvo Island (also known as Jacques Cousteau Island as he visited here so often)
- Swim through superhighway of fish as they migrate south

MAUI, HAWAII: November 14-20, 2022

- Education and workshop on plastics in the ocean and beaches
- Snorkel and scuba dive at Molokini Island and Black Rock
- Educational talk and visit to Maui Ocean Center the Aquarium of Hawaii
- See sea turtles and humpback whales
- Hawaiian arts and dance

ECOXPEDITIONS BAJA MEXICO PROGRAM 2022:

A new and equally important component of EcoXpeditions is the utilization of the Baja Mexico marine-protected areas for shorter 3-night, 4-day ocean conservation adventure tours as opposed to the current 6-night, 7-day tours. These shorter trips are designed to embrace a larger part of the population, with EcoXpeditions Baja Mexico program starting in February 2022 and running monthly for most of 2022. This will provide for a new and steady revenue stream and will reach out to a wider audience for ocean education and experiences. Another benefit to the shorter excursions is that they are easily promoted through online travel agencies for a wider reach.

- 1. EcoXpeditions recent trip to Baja Mexico local team at Palapas Ventana Resort loved wearing our t-shirts!
- 2. Another glorious sunset overlooking the thatched roof Casitas at Palapas Ventana Resort in Baja Mexico
- 3. Come and swim with the sea lions at La Reina island at Sea of Cortez, a Marine Protected Area









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Clearinghouse CDFI

San Francisco Public Utilities Commission (SFPUC)

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Laura Ragsdale	Chris Rodriguez	Ahmed Said
Vikram Raina	Sonya Rodriguez	Alicia Salas
Mandeep Ralh	Christopher Rodriguez	Jessica Salazar
Ganapathy Ramamoorthy	Shelbi Rodriquez	Carlos SalazarRazo
Sophia Ramirez	Michael Rogers	Philip Contreras Salcido
Marina Ramos	Michelle Romualdo	Momodou Sallah
Wade Randlett	Monica Rosado	Stephen Salser
Dr.Shannon Rapoport	Christina Rosales	Erika Sanchez
Clemence Rasigni	Katherine Ann Rosch	Sherry Sanders
Lily Ratleff	Megan Rose	Sriram Sankavan
Erica Ray	Darcel Ross	Sheena Louise Sannicolas
Erica Ray Travis Lee Redelman	Darcel Ross John Roughton	Sheena Louise Sannicolas Katherynne Santos
	Lance Phipps Tianna Picot Zina Marie Pittman Kevin Pitts Samantha Podborny Cesar Pomajulca Jennifer Poon Tamy Portillo Ahmad Qayyum Lijuan Qian Cuong Quan Laura Ragsdale Vikram Raina Mandeep Ralh Ganapathy Ramamoorthy Sophia Ramirez Marina Ramos Wade Randlett Dr.Shannon Rapoport Clemence Rasigni	Lance Phipps Tianna Picot Jackie Reyes Zina Marie Pittman Jonathan Rice Kevin Pitts Nicole Rigg Samantha Podborny Patty Riley Cesar Pomajulca Joanna Allison Riquelme Jennifer Poon Constance Robertson Tamy Portillo Olivia Roddy Ahmad Qayyum Andrea Rodriguez Lijuan Qian Stefanie Rodriguez Cuong Quan Leo Rodriguez Vikram Raina Sonya Rodriguez Vikram Raina Sonya Rodriguez Ganapathy Ramamoorthy Shelbi Rodriquez Sophia Ramirez Marina Ramos Michael Rogers Marina Ramos Michelle Romualdo Wade Randlett Monica Rosado Christina Rosales Clemence Rasigni Katherine Ann Rosch

Patricia Marzan Saturnio

Douglas Sayuk

Ellen Scanlon

Michael Schibler

Tekla Schlaich Ofir Schlam

joshua schneider Zosia Scislowski

Yapatikan Seibold

Cindy Seitz

Arun Selvaraj Sigbert Sequeira

Suresh Kumar Sermugakani

Shelley Gabriella Serrano

Reina Shah

Abdul Shameer

Yanqin Shan Ling Shang

Natalie Shattuck

Andrea Riahna Shaverrss

Damar Jeremy Kevin Shaw

Jayna Rey Shawver

Ashley Marie Sherfey

Danielle Sheridon

Rose Shields David Shook

Stan Shpak

Michael Vincent Sierra

Papinder Singh
Malkit Singh

Harinder Singh

Jonathan Sisseck

Grace Sjoberg

Sacha Skifter

Umamaheswari Rethina Smith

Michelle Smith

Caron Nicole Smith

Daniel Sneed Ruby Solemani

Sara Solis

Eva Solivar

Martha Selene

Solorio Ramirez

Ekaterina Sorokina

Mehrnoush Soroush

Damaris SotoHernandez

Anita Mieko Southard

Edith Souvannarack

Tina St. Germain
Erin Stephens

.

Lauren Stevenson

James Stinnett

Will Streyer

MaryJane Strom

Justin Suca

Riley Sullivan

Tian Sun

Shirley Sutliff

Tina Suza

Heather Swaim

Lauren Swenson

Alissha N. Sykes

Jonathan Taggart

Nassim Taherian

Mari Tanaka

Neha Tanwar

Kelly Tarkman

Kendra Taylor

Delcy Taylor

Boley raylor

Augusto Tazzoli

Jocelyn Tejeda

Ebony LaShae Temaika

Allen Terry-Gray

Tenei N.S. Tevaseu

Kimberly Danielle Thomas

Clemarr Yvette Thomas

Susana Barajas Tinoco

Denise Toledo

Rosalie Tolson

Gregory Daniel Toole

Jovita Sanchez Torres

Rachel Kay Townsend

Kelly Trainer

Long Tran

Anthony Tran Vanko Vankov Zhaodong Wang Qing Yang JoseLuis Vargas Hamilton Transitional Housing Sandra Wasicek Fan Yang Lilia Vargas Megan Trent Sabrina Watts Nan Yang Guadalup Vargas-Rivera Leon Wei Phat Trinh Meri Yani Mariann Elizabeth Vasquez Radihika Tripuraneni Lauren Melissa Wiest Fnu Yashu Ivonne Maria Vazquez Robert Wildes Zachary William Truter Jimmy Yen Victor Vazquez Zayas Edward Wilkinson Borami Yoon Judy Tsai Gopal Narasimhan Geraldine Tuch Mariah Williams Molly Yoon Vedartham Bolorerdene Tumurbaatar Maria Williams Kyle Young Maria Vencer Christy Turbeville Brianna Willis Joanus A. Youngblood Gabriela Vera Katie Turnbeaugh Chris Wilson Xiangfei Yu Dorothy Vergel Neal Uppal Eric Wittenberg SeungKon Yu Thomas Allan Vincent Sameena Usman Alicia Wood Risa Yuhas EvaMarie Viola Erkin Uzakov Teresa D. Wood Gabriela Zambrano Amit Vohra Alejandra Valdivia Katrina Wright Luis Zarate Janet Voong-Lay Luis Angel Valdivia-Rangel Julie Wu Ashleigh Zeile Valerie Vu Joaquin Valera Shuanhgui Wu Tam Zena Sami Vuong VeronicaJ Valeriano Beth Mary Wyatt Daniel Grey Zenzano Morgana Walden Jozef Vandepeute Elizabeth Wyler Xiaodong Zhang Ayanna Walker Wenhua Xue Randy Vang Kevin Zunker Megan Walls Terry Vang Xin Wan Crystal Yan



APPENDIX B UNAUDITED REPORT 2020

BAY.ORG

2020 STATEMENT OF ACTIVITIES (INCOME STATEMENT)

	Jan-Dec 2020
Revenue	
Development Revenue	
Development Revenue - Donations & Sponsorships	144,706.57
Development Revenue - Fundraising Events	5,000.00
Development Revenue - Grants & Contracts	369,392.04
Development Revenue - Memberships	62,195.30
Total Development Revenue	581,293.91
Operating Revenue	1,528,125.72
Group Sales Revenue	359,426.44
Retail Revenue	285,878.74
Special Event Revenue	36,984.27
Onsite Program Revenue	2,245.00
Offsite Program Revenue	153,470.00
Rental Income	27,775.00
Total Revenue	2,975,199.08
Cost of Good Sold	
Cost of Goods Sold - Retail	97,815.84
Total Cost of Good Sold	(97,815.84)
Gross Revenue	2,877,383.24

BAY.ORG

2020 STATEMENT OF ACTIVITIES (INCOME STATEMENT)

	Jan-Dec 2020
Expenditures	
Salaries & Benefits	4,058,029.41
Contract Services	174,980.21
Professional Fees	186,954.59
Office Expenses	141,830.27
Travel Expenses	80,674.62
IT Expenses	227,923.00
Repairs & Maintenance	61,159.58
Utilities	523,326.86
Operating Expenses	227,628.16
Advertising Expenses	55,147.47
Taxes & Licenses	18,472.66
Insurance	165,485.22
Administrative Expenses	833,333.75
Total Expenditures	(6,700,134.20)
Change in Net Assets	(3,822,750.96)
Other Income and Expenses	
Other Income	14,909.21
In-Kind Revenue	5,000.00
Other Expenses	214,631.62
In-Kind Expenses	5,000.00
Depreciation & Amortization Expenses	877,719.99
Total Other Income and Expenses	(1,077,442.40)
Net Assets	(4,900,193.36)





BAY.ORG

STATEMENT OF FINANCIAL POSITION (BALANCE SHEET)

as of 12/31/20

	12/31/2020
Assets	
Cash or Cash Equivalents	893,848.82
Accounts Receivable	148,004.41
Other Accounts Receivable	4,469.22
Inventory	108,780.86
Prepaids	39,299.02
Fixed Assets	4,744,825.19
Other Assets	65,252.56
Total Assets	6,004,480.08
Liabilities and Net Assets	
Liabilities	
Accounts Payable and Other Current Liabilities	2,057,040.29
Long-Term Liabilities	6,649,018.00
Total Liabilities	8,706,058.29
Net Assets	2,198,615.15
Change In Net Assets	(4,900,193.36)
Total Liabilities and Net Assets	6,004,480.08



