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Aloha Kākou,

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It’s been a whirlwind few months, punctuated by marvelous moments. Foremost, I’d like to acknowledge and thank the many partners and donors who joined together to so generously support the 18th Annual Bernice Pauahi Bishop Dinner on August 13th, when over $576,000 was raised in support of the collections. In September, Bishop Museum’s renowned research program was well represented at the IUCN’s World Conservation Congress by a presentation on the role of museums in conservation by our malacologist, Dr. Norine Yeung. Dr. Richard Pye’s discovery of two new species of fish in the Northwestern Hawaiian Islands appeared in the news, and an exhibition about Hawaiian forest birds was featured in the J. M. Long Gallery. Here at the Museum, our beloved Dr. Yoshihiko Shitoin, Kenneth Pike Emory Distinguished Chair Emeritus of Anthropology, was honored on his 92nd birthday with a special dedication and surprise visit by a delegation of distinguished guests representing Tahiti, including Mr. Edouard Fritch, the president of French Polynesia. Finally, the summer season brought promising increases in visitation, audience engagement, and admissions revenue. In fact, Bishop Museum was recently ranked the number one thing to do on O’ahu by USA Today!

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Aloha Kulau

Interim President and Chief Executive Officer

Linda Lee K. (Choy) Farm

Interim President and Chief Executive Officer

Me ka hāhū.

Linda Lee K. (Choy) Farm

ABOVE | Interim President and CEO

Cisy Farm with Board Chairman
Albion Ho‘o Higdon at the opening of the in the opening of the exhibit.

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Favorite friends and places from episodes of Dora the Explorer and Go, Diego, Go! are incorporated into the exhibit including:

• The Purple Planet: A Purple Planet home invites young visitors to climb inside and slide down the surface of the Purple Planet.

• Rocket Ship: Aboard the Rocket Ship, preschoolers are encouraged to put on a spacesuit, pilot the ship, and test their memory with images of colorful planets as they help Dora and Boots take their friends from outer space home.

• Constellations: Children and their families are asked to help identify the patterns made out of stars by inserting star shapes into a constellation wall, lighting up a particular constellation.

• Isa’s Flowery Garden: Preschool visitors may tour Isa’s Garden to pick flowers, interact with bird, butterfly, and insect puppets, and pretend-fly with toddler-sized bird and butterfly wings.

• Tico’s Tree and Car: Dora is a good friend to Tico the squirrel and young visitors are invited to be a good friend to Tico, too. Tico needs help picking nuts from the tree for a family picnic.

• Pirate Ship: In the Pirate Ship, preschoolers can dress like a pirate and join the Pirate Piggies crew to pretend-play by sailing the ship and divvy up the treasure.

• Animal Rescue Center: Young children can practice helping and caring for rainforest animals in Diego’s Animal Rescue Center.

• Rainforest Maze: Preschoolers can explore a rainforest to locate rainforest animals.

Get ready to explore at Bishop Museum in the new exhibit Dora & Diego—Let’s Explore! The exhibit features beloved characters Dora and Diego from Nickelodeon’s preschool television series Dora the Explorer and Go, Diego, Go! Dora and Diego are joined by their friends Boots the monkey, Map, Backpack, Isa the iguana, and Tico the squirrel. Of course, they’ll also need to be on the lookout for Swiper the fox.

This interactive traveling exhibit, created by The Children’s Museum of Indianapolis in partnership with Nickelodeon, will open on October 8, 2016. Dora the Explorer follows the adventures of seven-year-old Dora and her friends in an imaginative, tropical world. Go, Diego, Go! stars Dora’s eight-year-old cousin Diego, an animal rescuer who protects animals and their environments. The exhibit based on the popular television shows gives children and their families an opportunity to venture into the worlds of Dora and Diego and engage in problem-solving through active play.

Young children play along as they join in adventures and learn how to solve problems, share, be a good friend, and care for animals and the environment.

Be sure to bring your little explorer to play along with Dora, Diego, and their friends so they can say “We did it!” too.
For Bishop Museum’s exhibits and collections staff, the process of creating an in-house exhibit is both challenging and rewarding. Through each phase of design—from concept to curation, drafting to display—a new exhibit offers opportunities to engage with the Museum’s rich and varied collections with fresh perspective.

Museum staff are currently involved in an ambitious exhibit design project inspired by the Museum’s Ethnology collection and complemented by its Natural Science collections. Bishop Museum’s upcoming original exhibit *Hulia ‘Ano: Inspired Patterns*, now in the final design phase, will be an artistic presentation of objects from the Museum’s collections that explores Hawaiian cultural patterns, forms, and shapes and their reflections in nature.

To present this story, the *Hulia ‘Ano* exhibit team reviewed collections items and natural science specimens across every Museum department. The team ultimately selected a variety of objects to display, some with geometric pāwehe motifs, others with design elements inspired by the natural world. Items from the Ethnology collection include bold patterned kapa, fine makaloa sedge mats, printed gourds, a mahiole (royal feathered helmet), and ‘ohe kāpala (bamboo stamps). Natural Sciences collections include herbarium specimens, land and sea shells, and examples from the zoological collection.

Each item alone is visually stunning. When grouped together, the objects are intended to provoke contemplation and creative thought. The exhibit will also feature new works by contemporary artists who continue to draw inspiration from Bishop Museum’s collections. These include woven art by Lufi Luteru, knotted fashion by Taupori Tangaro, featherwork by Kawika Lum, kapa by Verna Takashima, and visual art by Matt and Roxanne Ortiz.

Inspired visitors will be able to create their own designs at interactive stations, while audiovisual stations extend pattern exploration into activities like printing on gourds or creating hei (Hawaiian string figures).
In commemoration of the 75th anniversary of the bombing of Pearl Harbor, Bishop Museum is honored to exhibit rarely-seen images from our Archives as well as items loaned by private collectors. The Homefront Hawai‘i exhibit focuses on the dramatic effects on the citizens of Hawai‘i in the immediate aftermath of the attack on Pearl Harbor. There were more than 100 civilian casualties during the attack on Pearl Harbor as many residents were going about their usual Sunday activities. Many initially watched, thinking it was a make-believe air battle. For the next three years, martial law was imposed on Hawai‘i, with citizens subjected to strict curfews—stricter still for those of Japanese ancestry—as the United States military either took over or influenced all territorial government functions.

In this exhibit, you will see the stark aftereffects of the war in photographs of explosion-damaged Honolulu streets, a fortified Waikiki beach crisscrossed with barbed wire, bomb shelters at Iolani Palace, and actual shrapnel from the attack. Homefront Hawai‘i opens on Thursday, December 1, 2016, in conjunction with commemoration ceremonies taking place across the island, and will be on display through March 1, 2017.

This exhibit is generously supported by the Hawai‘i Visitors and Convention Bureau.

“Seeing children become passionate about learning is the most rewarding part of my job,” says Hadley Anderson, senior science educator at Bishop Museum. “School field trips are more than just a day away from class; they encourage students to put what they’ve learned to the test and provide learning opportunities beyond the classroom.

At Bishop Museum, the goal for Hadley and senior culture educator Lokomai‘a‘a Lipscomb is to instill the kīkāi with an enriched learning experience, a sense of belonging, and true connection to Hawai‘i nei. “Our hopes are that Bishop Museum will leave a positive impact on students that makes them enthusiastic about museums and learning in general,” says Lokomai‘a‘a. “If they can also connect to and develop an appreciation for this incredibly special place that is Hawai‘i, then I think we’ve done our job.”

Roughly 25,000 students walk through the doors of Hawaiian Hall each year and over the course of 40 years, Bishop Museum’s education program has sought to be the spark that ignites a desire for knowledge for future generations. Education programs are geared to pre-kindergarten all the way up through twelfth grade. “We strongly believe we have a responsibility as educators to perpetuate a culture of learning for all ages,” says Lokomai‘a‘a. The Museum’s education program also sees groups from the YMCA, Boys & Girls Club of Hawai‘i, church groups, Boy Scouts and Girl Scouts, Hawaiian language immersion schools, charter schools, Kamehameha Schools, and a good representation of the public schools.

The Museum offers a wide range of unique programs in science and culture, planetarium shows, along with the Best of Honolulu award-winning Museum After Dark sleepover program. A fun night for kīkāi to engage in educational games, treasure hunts, planetarium shows, as well as guided tours through Hawaiian Hall.

Hitching a Ride to Paradise, a favorite program among third and fifth graders, teaches students how plants and animals populated the Hawaiian Islands by sea currents, wind, and birds. “Kids love that one—it’s super interactive,” says Hadley. “It’s a mystery to a lot of kids and it allows them to do a hands-on experiment using the three WS: wind, waves, and wings, and they get to test all the different ways in which living things arrived in the Hawaiian Islands.”

Many of the programs offered are created to incorporate curriculum criteria and STEM (science, technology, engineering, and math) educational components. The Eyes on Island Earth program offers a visual lesson on the different environments of our planet. Seeing images of Earth taken from space via NASA satellites educates children about the various components. The Eyes on Island Earth program offers a visual lesson on the different environments of our planet. Seeing images of Earth taken from space via NASA satellites educates children about the various environmental systems of Earth.

Programs such as these deepen a child’s understanding of and relationship with the rich culture, history, and environment of Hawai‘i, allowing them to engage the world and the future. "Never underestimate a child’s ability to learn," says Hadley. "To see that I can inspire and excite them to engage the world and the future. Culture, history, and environment of Hawai‘i, then I think we’ve done our job." says Hadley. "It’s a mystery to a lot of kids and it allows them to do a hands-on experiment using the three WS: wind, waves, and wings, and they get to test all the different ways in which living things arrived in the Hawaiian Islands." Many of the programs offered are created to incorporate curriculum criteria and STEM (science, technology, engineering, and math) educational components. The Eyes on Island Earth program offers a visual lesson on the different environments of our planet. Seeing images of Earth taken from space via NASA satellites educates children about the various environmental systems of Earth.

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Sophia Rodriguez is member services coordinator at Bishop Museum.

Teachers: utilize our educational online resources or book a school visit at BishopMuseum.org today!

Please make a donation and support Bishop Museum’s educational programs at BishopMuseum.org
New Species of Hawaiian Butterflyfish Discovered

In the remote Northwestern Hawaiian Islands, scientists have found a new species of butterflyfish in the deep reefs of the Papahānaumokuākea Marine National Monument. Prognathodes basabei, Pete Basabe’s Butterflyfish.

“Butterflyfish are the glamour fish of the coral reefs,” said Dr. Richard Pyle, Bishop Museum associate zoologist and first author on the published description of the new species: “They are colorful, beautiful, and have been very well-studied worldwide. Thus, finding a new species of butterflyfish is a rare event.”

Coral reefs at depths of 150 to 500 feet, also known as mesophotic coral ecosystems or “the coral-reef twilight zone,” are among the least explored of all marine ecosystems. At depths deeper than most scuba divers can venture, and shallower than feasible for most submersible-based exploration, these reefs represent a new frontier for coral reef research. “Discoveries such as this underscore how poorly explored our deep coral reefs are,” said Randall Kosaki, NOAA scientists and co-author of the study.

This species was first seen in video taken from manned subsimubers over twenty years ago, at depths as great as 600 feet. At the time, Pyle and University of Hawaii marine biologist E. H. “Deetsie” Chave recognized this as a potential new species. However, because of the extreme depths, it was many years before technical divers using advanced electronic closed-circuit rebreathers were able to collect and preserve specimens in a way that would allow proper scientific documentation.

Recently, the new butterflyfish has been encountered regularly on deep exploratory dives down to 330 feet on NOAA expeditions to Papahānaumokuākea. The new fish is named after the male’s distinctive dorsal fin coloration, a circular red spot, surrounded by blue, has been formalized as a scientific name in honor of President Obama.

The live fish are now on public display at Bishop Museum in Honolulu and at the Mokupāpapa Discovery Center in Hilo. An additional specimen is on display in the Deep Reef exhibit at the Waikiki Aquarium.

“Scientific priority usually results in the first few specimens of a rare species going to museum research collections.”

At the urging of the Native Hawaiian community and scientists and bolstered with a proposal submitted by US Senator Brian Schatz (D-Hawaii), President Obama announced an expansion of the Northwestern Hawaiian Islands Marine National Monument, also known as Papahānaumokuākea, in August. At 582,578 square miles, Papahānaumokuākea is now the largest marine protected area on Earth. “This new discovery illustrates the conservation value of very large marine protected areas,” said Randall Kosaki.

“Every other fish we’ve documented up there also occurs in the main Hawaiian Islands outside the Monument,” Pyle says. “The male’s distinctive dorsal fin coloration, a circular red spot ringed with blue, has been formalized as a scientific name in honor of President Obama.”

“Every other fish we’ve documented up there also occurs in the main Hawaiian Islands outside the Monument,” Pyle says. “Not only do they protect the biodiversity that we already know about, they also protect the diversity we’ve yet to discover. And there’s a lot left to discover.”

Support Bishop Museum’s research program, make a donation online at BishopMuseum.org.

Experience the underwater “Twilight Zone” through the ichthyology blog at BishopMuseum.org/blog/ichthyology.

A Monumental Fish

As a wonderful tie-in to the recent expansion of the Papahānaumokuākea Marine National Monument by President Barack H. Obama, we are excited to share the announcement of a new species of fish to be named later this year in his honor. This new species (pictured above) was first discovered at a depth of 300 feet off Kure Atoll in June 2016, during a NOAA research cruise. Bishop Museum’s Dr. Richard Pyle, along with Brian Greene, an affiliate of Bishop Museum, and chief scientist Dr. Randall Kosaki of NOAA, made the discovery. The fish is the first member of the genus Tosanoides found outside the western Pacific. The new species is known to live only within the Papahānaumokuākea Marine National Monument.

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Later this year, Dr. Pyle and his colleagues will publish a formal description of this fish and assign it a scientific name in honor of President Obama.

RESEARCH

ABOVE LEFT | Pete Basabe’s Butterflyfish (Prognathodes basabei Pyle and Kosaki 2016) at a depth of 300 feet off Pearl and Hermes Atoll, Northwestern Hawaiian Islands. Photo by Greg McFall / NOAA.

ABOVE RIGHT | Dr. Richard Pyle, Bishop Museum associate zoologist and first author on the published description of the new species. “They are colorful, beautiful, and have been very well-studied worldwide. Thus, finding a new species of butterflyfish is a rare event.”

ABOVE | Prognathodes basabei in the deep reefs of the Papahānaumokuākea Marine National Monument. Photo by Kelli Soileau.

OPPOSITE LEFT | Bishop Museum researcher Dr. Richard Pyle captures the holotype specimen of Pete Basabe’s Butterflyfish, at a depth of 300 feet off Pearl and Hermes Atoll on the Northwestern Hawaiian Islands. Photo by Robert K. Whitten / Technical Innovations.

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Can I Borrow That Beetle?

by Jim Boone

Just as a public library loans out books, Bishop Museum’s Natural Sciences collections loan out biological specimens. Researchers from around the world use the Museum’s comprehensive collections to study the ancestral relationships between different species and classify and name different specimens found primarily in the Pacific Basin, especially Hawaii.

The results of these studies are used to monitor environmental changes and develop conservation and management plans that protect biodiversity, especially of our Hawaiian native species. The Natural Sciences collections are accessible and actively used by Museum staff as well as external scientists, students, conservationists, and land managers worldwide through visitations and loans. Hundreds of researchers visit the Museum each year. As an alternative, others who do not have the time or means to travel to the Museum, borrow from the collections. Each individual collection department facilitates their own requests and loans.

The Entomology collection, for example, houses over 14 million specimens of insects and their relatives and loans out over 5,000 specimens each year to researchers around the world. When feasible, images are sent electronically instead of mailing fragile and historical specimens.

The Museum Entomology staff identifies collection specimens when possible. In many groups of insects, it is difficult to identify the species of specimens without the assistance of an outside specialist. For this reason, many borrowed specimens are unidentified when they are shipped but return with proper scientific names. Some turn out to be new species in our collections, while others are identified as completely new to science.

We recently processed a loan return that included two dozen new species of ground beetles collected in Hawaii. One of the specimens was collected from Lahaina in 1904 and had been stored safely in our collection for over 100 years before it was determined to be a brand-new species.

Stories like this are repeated every year throughout museums around the world. The average time between collection and identification is about 20 years, but in some cases is much longer because there are not enough experts to examine all the material preserved in the world’s collections in a timely manner.

Dozens of new species are added to our various Natural Sciences collections each year and are cited in numerous scientific research articles. Science continues to grow at Bishop Museum, due in large part to our reputation as an international research institution and to dedicated staff supporting researchers with access to our extensive collections of biological specimens. Who knows what we’ll find next?

Jim Boone is lead collection manager and senior Entomology collection manager at Bishop Museum. Activities in Jim’s office include research into current trends in collection management and advocating for the collections through digital, visual, and social media.

Support the Natural Sciences Collection and make a gift contribution at BishopMuseum.org.
At the beginning of the twentieth century, the field of archaeology was just beginning to emerge from its antiquarian roots as a modern scientific discipline. In Egypt and Mesopotamia, pioneers such as Sir Flinders Petrie and James Henry Breasted were applying new methods of excavation, surveying, and photographic documentation to record the vestiges of those ancient civilizations. Halfway around the globe, at Honolulu's Bernice Pauahi Bishop Museum, another pioneer was at work documenting the archaeological record of ancient Hawaii. John F. G. Stokes, Bishop Museum's curator of Ethnology, deserves credit as Hawaii's first archaeologist.

An Australian, Stokes was hired in 1899 at the age of 24, by Bishop Museum's first director, William T. Brigham, to catalog the Museum's library and to help arrange the collections. During his first year, Brigham and Stokes camped out within the walled enclosure of Waha'ula Heiau in the Puna district of Hawaii. This large iuakini, or temple of human sacrifice dedicated to Kī, was said to have been built by Pīʻai, the great voyaging priest from Tahiti. Based on their careful measurements and notes, Stokes created the scale model of the temple that still stands in Bishop Museum's Hawaiian Hall. Brigham was convinced from his reading of Hawaiian moʻolelo or traditions that Pīʻai's introduction of Kī worship and human sacrifice had led to a radical change in the nature of Hawaiian heiau. He thought that prior to Pīʻai, the temples were open platforms but that these were later changed to walled enclosures, hiding the sacred rites from the prying eyes of the commoners. To test this theory, Brigham assigned Stokes the task of mapping all of the known heiau of Hawaii Island. From August 1906 to January 1907, Stokes, assisted by his wife Margaret, mapped more than 100 heiau. In 1909, he continued the work on Molokai, where every known heiau and fishing shrine were recorded in detail. Stokes' precise maps were accompanied by many photos taken with a large view camera using glass plate negatives.

Stokes' pioneering archaeological work extended beyond mapping heiau. In 1913, he made the first systematic excavation in Hawaii, at the Kamōʻio Bay fishing shrine on Kahoʻolawe. Digging by stratigraphic layers, Stokes found bone fishhooks and coral files along with quantities of organic remains such as fishbones and even "awa chewings." Stokes was way ahead of his time, for not until the early 1950s did Kenneth Emory again start excavating Hawaiian sites. Stokes' research also extended to the Austral Islands of southeastern Polynesia, where he spent 1920—1922 as a member of Bishop Museum's Bayard Dominick Expedition. Unfortunately, Stokes was something of a perfectionist and slow to publish his results. Herbert Gregory, who succeeded Brigham as Bishop Museum's director, had little patience for what he regarded as procrastination, eventually relieving Stokes of his appointment at the end of 1929. Although much of his work was not published in his lifetime, Stokes' legacy of detailed maps, photographs, and field notes remains a priceless and irreplaceable source of information and insight into ancient Hawaiian history.
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Kumu Hula Kaliko and dancers from Ka Leo O Laka i Ka Wea O Ka La at the 18th Annual Bernice Pauahi Bishop Dinner. Photo by Travis Okimoto.

Dr. Mara Murose, looking at the wish tags on the vintage glass floats in the Wish Tent at this year’s Bernice Pauahi Bishop Dinner. Photo by Travis Okimoto. 

Dr. Nattie Young, malacology researcher talks to dinner guests about the malacology collection in the Deep Dive After Party at the 18th Annual Bernice Pauahi Bishop Dinner. Photo by Travis Okimoto.

Kumu Hula Kaliko and dancers from Ka Leo O Laka i Ka Wea O Ka La at the 18th Annual Bernice Pauahi Bishop Dinner. Photo by Travis Okimoto.

Dr. Nattie Young, malacology researcher talks to dinner guests about the malacology collection in the Deep Dive After Party at the 18th Annual Bernice Pauahi Bishop Dinner. Photo by Travis Okimoto.
As "The Museum of Hawai'i," Bernice Pauahi Bishop Museum's mission is to be a gathering place and educational center that actively engages people in the presentation, exploration, and preservation of Hawai'i's cultural heritage and natural history, as well as its ancestral cultures throughout the Pacific.

Museum open daily, 9:00 a.m. - 5:00 p.m. Closed Thanksgiving and Christmas Day.

Admission:
- Adults $22.95
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Moena pāwehe o Ni‘ihau.

Poetic expression often used in reference to Ni‘ihau. Fine makaloa mats of Ni‘ihau, beautifully patterned, were famed throughout the islands.