

The 2021 year was an incredible success for the Museum and Sea Center on just about every front—ongoing collections and research, strong educational programing, and extraordinary earned and contributed income. And yet, our success is hardly surprising. The talent and dedication of the staff, the deep and unwavering support and guidance of the Board, the passion and devotion of our docents and volunteers, and the broad support of the entire community are the essential foundation of our excellence and our impact last year.

Behind the scenes we focused energy on updating key infrastructure in our Collections and Research Center. Because of this effort, the future of over 3.5 million objects curated in the facility will be safer for decades to come. We also completed the repair of the Towbes Family Bridge and re-opened the beautiful and historic bridge in time for the busy Labor Day weekend.

Attendance at both of our campuses was extraordinary in 2021, and membership bounced back as our community returned and felt the excitement on campus. We're all delighted to be doing what we do best: connecting people to nature for the betterment of both.

COVID-19 and new operating protocols may have changed how we do business, but we were able to keep to our mission and serve the community.

Our work is made possible by and for you.

Thank you for your continued support.

Sincerely,

Luke J. Swetland President & CEO





Matthew Adams Dennis Allen

Christopher Blau

Loren Booth

Sharon Bradford

Vincent Caballero

Carolyn Chandler

Frank Davis

Douglas Dreier

Venesa Faciane

Melissa Fassett

Elaine Gibson

Bobbie Kinnear

Christopher Knowlton

Tim Kochis

Corinne Laverty

Salvatore "Tory" Milazzo

Hank Mitchel

Susan Parker

Keith Reichel

Paul Relis

Wayne Rosing

Paul J. Russell

Sarah Sheshunoff

Terrence Valeski, Chair

Lotus Vermeer

**Brad Willis** 

Steven Woodward

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Joan Kurze, Ph.D.

Alexander Power

Brian Rapp

Janet Sands

### **President & CEO**

Luke J. Swetland

With your generous support, the Santa Barbara Museum of Natural History is inspiring a thirst for discovery and a passion for the natural world

HERE'S A SNAPSHOT

OF WHAT WE

ACCOMPLISHED IN 2021.

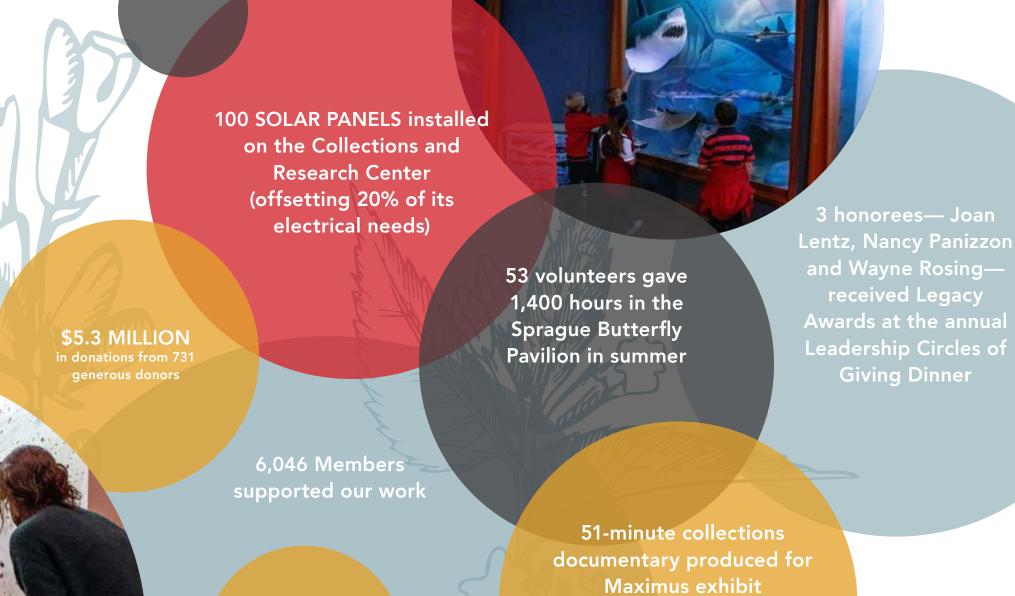
# CONNECTING PEOPLE TO NATURE FOR THE BETTERMENT OF BOTH

53,315 people visited the Museum Backyard

\$721,000 of donations allowed us to create an endowment to support the Quasars to Sea Stars program

\$244,306 in gross sales from Folk & Tribal Arts Marketplace with 25 vendors.





109,953 people visited the Museum 6,619 people

visited the Museum Library

What's in Our Drawers: sbnature.org/drawersmovie

# DEPARTMENTS

The talent and dedication of the staff, the generous support of donors and Members, and the commitment of the community all contributed to lots of successes in each department.

# AT A GLANCE

### MAXIMUS

The John and Peggy Maximus Gallery hosted two exhibits. A Medicine to the Mind was an exhibit about early gardening catalogs. Extremely rare documents provided insights into the development of plant varieties, and helped us understand which varieties withstood the test of time and how gardening evolved. On display were original engravings from the first published sales catalog from 1612, images of tulips from the mania for bulbs in Holland in the seventeenth century, and plates from the influential Chelsea Physic Garden catalog printed in London during the eighteenth century. The fall exhibition featured the Museum's Collections and Research Division and was called What's in our Drawers: Art and Objects from the Museum's Collections. A highlight of the year was the acquisition of the Canada Lynx by John James Audubon from his mid-nineteenth century work on America's quadrupeds.



### LIBRARY

Due to COVID-19, the Library limited donations, but did receive a few special items. The Library accessioned a number of Southwest Indian art books donated by Jan Timbrook and pertinent to artifacts housed in the Anthropology Collections. A collection of 10 original ink drawings by Campbell Grant, donated by Robert Muller, was added to our archive collection. While the Library holds a large number of Grant's rock art images and field notes, these drawings were produced for Harold Gladwin's book, *Men out of Asia*, published in 1947. As we also hold a number of Gladwin's papers and manuscripts, the drawings were the perfect complement to this collection.

### INVERTEBRATE ZOOLOGY

Our curators in the Invertebrate Zoology Department stayed active. Curator of Malacology Daniel L. Geiger, Ph.D., described one new species of snail from Cuba and two species of fish from New Zealand (with Vertebrate Zoology Research Associate Christine Thacker, Ph.D.). We added significantly to the collection through the accession of the Carole and Jules Hertz collection of about 15,000 lots of shells. Curator of Malacology Henry Chaney, Ph.D., nearly completed the cataloging of the Beck Collection of some 10,000 lots of dry shells, and revised several other groups (Coralliophilidae, *Nucella*). In addition, 8,500 beetle taxa were classified and added to the Catalogue of Life website.



### **VERTEBRATE ZOOLOGY**

Curator of Vertebrate Zoology Paul Collins, M.A., retired from the Museum in January. He continues to maintain a Museum presence as curator emeritus. His storied career of over 45 years is an inspiration to colleagues, and we will continue to draw on his knowledge frequently. Dibblee Curator of Earth Science Jonathan Hoffman, Ph.D., has continued his research on fossils collected from the sea cow locality on Santa Rosa Island. The invertebrate specimens have all been identified, photographed, and catalogued. Dr. Hoffman is currently collaborating with colleagues on the preparation of a manuscript describing the invertebrate fauna. Curator of Vertebrate Zoology Krista Fahy, Ph.D., secured a grant with The Nature Conservancy to continue the digitization of bird sighting records from the Southern Channel Islands. The Museum also accessioned two mastodon tusks from Moorpark which were installed in the mammoth case of the Earth Science exhibits. In November, Hoffman traveled to Hot Springs, South Dakota to visit colleagues at the Mammoth Site and retrieve the Larramendy mammoth skull. The Larramendy skull is the most complete mammoth skull found on the Channel Islands to date and likely represents a transitional form between the diminutive Pygmy Mammoth and its significantly larger ancestor, the Columbian Mammoth.

### **ANTHROPOLOGY**

The arrival of the Central Coast Information Center (CCIC) of the California Historical Resources Information System (CHRIS) was a top news story for the Anthropology Department in 2021. The CCIC maintains the site records and reports pertaining to archaeological and historical resources for Santa Barbara and San Luis Obispo Counties. It provides cultural resources information on a fee-for-service basis to local governments, state and federal agencies, Native American tribes, individuals with responsibilities under federal and state laws, and the general public. Associate Curator of Anthropology Brian Barbier, M.A., managed the CCIC during his graduate studies at UCSB and will continue to do so now that it is at the Museum. Two staff positions were added to carry out the work of the CCIC.





### EDUCATION DIVISION

The education team continued to deliver dynamic science and nature programs virtually for the first half of 2021. We were able to bring back some of the in-person programs during the summer with careful safety protocols. Jenna Rolle, M.S., was promoted to director of education. The docent program continued with 25-40 docents consistently in attendance for trainings and work shifts. Charlie Thrift, a former quasar, was hired as the teen programs manager. The Quasars to Sea Stars program grew to 16 participants.

### SEA CENTER

Despite the Sea Center being closed for the first part of the year, staff were still required to provide animal care every day. Staff remained flexible and adjusted to new roles as protocols changed. The Sea Center started a collaboration with National Oceanic and Atmospheric Administration (NOAA) and North American Association for Environmental Education (NAAEE) to support the White Abalone exhibit and research. Staff worked with the exhibits team to design a new upstairs exhibit, *Dive In: Our Changing Channel*. The Sea Center closed in September for three months to address some major infrastructure repairs and install the new exhibit. Some of the sea life and exhibits were moved to the Museum campus for a temporary experience in the Broder Building.

Sarah and Lincoln Hollister established the Lionel Albert Walford Fund with a \$102,000 donation to support the collection, care, and feeding of sea life in the Sea Center's Channel Catch habitat.



### SPECIAL PROJECTS

The Collections Care Project and associated campaign were completed. \$3.1 million was raised to support the Collections and Research Center's roof repair, HVAC improvements, solar panels addition, and other items.

The Museum continues its commitment to justice, equity, diversity, and inclusion (JEDI) in all of its planning and initiatives and worked with Equity Praxis Group to provide staff training.



We opened the new Prehistoric Forest exhibit in the south area across the creek. The animatronic dinosaurs are very popular with children and adults alike. In the Sprague Pavilion, we created *Dinorama: Miniatures Through the Mesozoic*, a miniature dinosaur exhibit. With the reopening of the Museum and Sea Center, the exhibits team worked to create safe operations in previous high-touch exhibits. Since the Sea Center was under renovation, we opened *Wonderful Waters* in the Broder Building, moving some of the live animal exhibits from the Sea Center.



**55%** 

PHILANTHROPY **\$4,620,000** 

65%

2%

Contributions & grants \$2,600,000

Special events \$110,000

33%

Quasi-endowment & trust income \$1,910,000

# 2021 OPERATING REVENUE

17%

\$8,410,000

CONTRACTS & GENERATED REVENUE \$1,450,000

17%

Lectures, field trips & camps \$70,000 27%

Facility & property rentals \$150,000

24%

Contracts & fees \$100,000 32%

Other (includes Paycheck Protection Program) \$1,130,000

28%

ADMISSIONS, STORES SALES, & MEMBERSHIP \$2,340,000

**51%** 

26%

24%

Admissions \$1,180,000

Stores \$610,000 Membership \$550,000

FINANCIALS

51%

GUEST EXPERIENCE \$3,290,000

20%

Sea Center \$630,000 11%

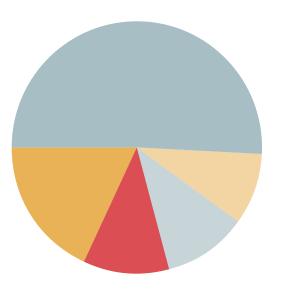
Exhibits \$390,000 13%

20%

Guest Marketing Services \$440,000 \$650,000 36%

Facility Maintenance \$1,180,000





9%

SCIENTIFIC RESEARCH & COLLECTIONS MANAGEMENT \$600,000

11%

**\$670,000** 

11%

FUNDRAISING \$730,000

2021
OPERATING
EXPENSES

\$6,480,000

# BUILDING AN

The Museum has several named endowments and funds that support particular programs and initiatives. Many of these endowments were established through bequests.

## ENDURING LEGACY

Donations can be made to support any existing fund or endowment. To discuss creating or donating to a named endowment or fund contact Museum President & CEO Luke J. Swetland at 805-682-4711 ext. 101.

### DR. CHRISTEL BEJENKE FUND

Created by Christel and George Wittenstein to provide an annual income stream to support the Museum's public programming efforts focused on science and nature. Value as of 12/31/21 \$97,489

### THOMAS WILSON DIBBLEE ENDOWMENT FOR EARTH SCIENCES

In 2001, the Museum partnered with Mr. Dibblee to publish his extraordinary geological maps, and he designated his estate for the support of the map publishing effort and to establish an Earth sciences position.

Value as of 12/31/21 \$2,243,791

#### ROBERT DOUGAN FUND FOR INNOVATIVE EDUCATION

Mr. Dougan was a librarian, bibliophile, and scholar of Ireland's greatest literary treasure, the Book of Kells. Feeling deeply about the importance of education and scholarship, he provided in his estate an endowment fund to support innovative educational programs.

Value as of 12/31/21 \$959,123

#### HEARST SCHOLARS IN MUSEUM STUDIES FUND

Endowed in 2002 with a grant from the William Randolph Hearst Foundation, this fund provides resources for college and university students to intern in various positions at the Museum. Value as of 12/31/21 \$154,025

### HOLLIS NORRIS ENDOWED FUND

Established in 2016 to provide general operating support, this endowed fund is held at the Santa Barbara Foundation. Value of Hollis Norris Endowment Fund held at the Santa Value as of 12/31/21 \$4,235,014

### QUASARS TO SEA STARS ENDOWMENT

With a generous donation from the Hollis Norris Fund and David and Lyn Anderson, the Museum created the Quasars to Sea Stars Endowment in December 2020 to provide support for the Museum's valuable teen program. Value as of 12/31/21 \$916,055

### HOWARD/BERRY CHAIR OF MALACOLOGY

The prominence of the Museum's vast shell collection and its scientific research staff is in part based on the support of two eminent shell collectors, Faye B. Howard and Dr. S. Stillman Berry. Both these individuals left as bequests, not only their superb private collections, but also the funds to support the expansion of our Collections and Research Center and to endow this curatorial chair. Value as of 12/31/21 \$1,305.694

### THOMAS E. HUGUNIN AND ELENORE H. HUGUNIN ENDOWMENT

Established with a bequest in 2010, the Hugunin Endowment provides general operating support and is held at the Santa Barbara Foundation.

Value of Hugunin Endowment Fund held at the Santa Value as of 12/31/21 \$723,045



### JOHN AND PEGGY MAXIMUS ENDOWMENT FOR ANTIQUE NATURAL HISTORY ART

John and Peggy funded the creation of a gallery dedicated to antique natural history art and provided for its continued support. A fund is held by the Museum and a second fund is held at the Santa Barbara Foundation.

Value as of 12/31/21 \$2,077,337

Value of Maximus Trust held at the Santa Barbara Foundation \$2,476,891

### RIDDER SEA CENTER FUND

Established in 2017 with a bequest from Virginia Ridder, this fund supports exhibits and maintenance at the Sea Center. Value as of 12/31/21 \$354,238

#### SCHLINGER FOUNDATION CHAIR OF ENTOMOLOGY

Evert Schlinger, Ph.D., was a world-renowned entomologist and a professor of biology. Believing ardently in the importance of museums for both research and education, Dr. Schlinger endowed the Schlinger Chair of Entomology in 2004. Value as of 12/31/21 \$1,894,113

### SAMUEL BLAKE SHAPIRO MEMORIAL FUND

Sam Shapiro went through the Sea Center volunteer training program when he was 12 and, over the next 5 years, volunteered almost 450 hours at the Sea Center. Sam's love and support of the Sea Center continues on through this fund which supports the Wet Deck's operations.

Value as of 12/31/21 \$12,120

#### VERTRESS L. VANDER HOOF ENDOWMENT

Established in 2018 through an estate gift from Jill Vander Hoof in honor of her father, Vertress Vander Hoof, this endowment supports the Museum Library's operations and acquisitions. Value as of 12/31/21 \$1,841,564

### LIONEL ALBERT WALFORD FUND

Dr. Walford was a research scientist in the field of ichthyology who participated in research trips aboard Museum Trustee Max Fleischmann's boat in the 1930s. The fund was established in 2021 by Dr. Walford's daughter Sarah and her husband Lincoln Hollister to provide operating support for the collection, care, and feeding of the sea life in the Sea Center's Channel Catch Habitat. Value as of 12/31/21 \$92,517

Total value of Museum's invested assets as of 12/31/21 \$54,643,350

Total value of Museum's invested assets held at the Santa Barbara Foundation as of 12/31/21 \$7,434,950



Brown, Kaitlin M., **Brian J. Barbier,** Griffin Fox, Itzamara Ixta, Gina Mosqueda-Lucas, Brianna Rotella, and Lindsey Willoughby. 2021. Subsistence and Economic Activities of the Chumash Community ('Amuwu) at Mission La Purísima Concepción. *Boletín: Journal of the California Missions Foundation* 37(1): 100-115.

Fernañdez Garcés, **R., D. L. Geiger**, E. Rolán & A. A. Luque. 2021. A new species of *Scissurella* (Gastropoda, Scissurellidae) from Cuba. *Iberus* 39(2): 225–229.

**Geiger, D. L.** 2021. Orchid seeds under the microscopes. *Orchid Digest* 85: 46–47.

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**Geiger, D. L.**, 2021. Studies in *Oberonia* 9: Lessons from excess names in *Oberonia* for Orchidaceae systematics, including a revision of the *Oberonia* Sect. *Scytoxiphium*. Lankesteriana 21: 139–156.

**Geiger, D. L.** & P. Kumar (eds.). 2021. Preface. In: Orchidaceae Special Issue. *Rheedea* 31: 103–233

**Geiger, D. L.** & P. Kumar (eds.).2021. Orchidaceae Special Issue. *Rheedea* 31 (3): 103–233.

**Gimmel, M. L.** & R.A.B. Leschen. 2021. Revision of the genera of Picrotini (Coleoptera: Cryptophagidae: Cryptophaginae). *Acta Entomologica Musei Nationalis Pragae*.

**Johnson, John R.** 2021. Early African American Settlers in the Santa Barbara Region. *La Campana* 47(2): 6-17.

**Johnson, John R.** 2021. Review: North America's Galapagos: The Historic Channel Islands Biological Survey, by Corinne Heyning Laverty. *California Archaeology* 13(2):269-271.

Jones, Terry L., Al W. Schwitalla, Marin A. Pilloud, **John R. Johnson**, Richard R. Paine, and Brian F. Codding. 2021. Historic and biological evidence supports late onset of post-Columbian epidemics in Native California. *Proceedings of the National Academy of Sciences* 118(28). e2024802118.

Kundrata, R., **M. L. Gimmel**, G. Packova, A. Bukejs & S.M. Blank. 2021. A new enigmatic lineage of Dascillidae (Coleoptera: Elateriformia) from Eocene Baltic amber described using X-ray microtomography, with notes on Karumiinae morphology and classification. *Fossil Record* 24: 141-149.

**Thacker, C.E., D. L. Geiger** & J. J. Shelley. 2021 Two new cryptic species in the New Zealand freshwater fish genus *Gobiomorphus* (Gobiiformes: Gobioidei: Eleotridae). New Zealand Journal of Marine and Freshwater Research DOI10. 1080/00288330.2021.2007959.

# STAFF

In addition to facilitating access for other researchers, our staff are advancing scientific knowledge with their own publications and research.

# PUBLICATIONS

### **2021 STAFF**

### ADMINISTRATION AND FINANCE DIVISION

Luke Swetland, M.A., MILS, President & CEO Diane Wondolowski. COO & CFO Amy Carpenter, COO Carolyn Morthole, Executive Director's Assistant Pam Beckley, Finance Manager Amal Zalatimo, **Business Development Officer** Toni Skovorodko, Accounting Clerk Barbara Burkepile, Human Resources Advisor Shomari McLemore, Human Resources Manager Rebecca Fagan Coulter, Volunteer Manager Phillip Morones, Information Systems Manager Armando Del Campo.

### COLLECTIONS AND RESEARCH DIVISION

Henry W. Chaney, Ph.D., Director; Howard Berry Chair of Malacology

Information Systems Technician

### Anthropology

John Johnson, Ph.D., Curator of Anthropology Brian Barbier, M.A., Associate Curator Kate Paulson,
Curatorial Assistant
Anthony Cowell,
GIS Technician
Gina Mosqueda-Lucas,
Hearst Intern
Jan Timbrook, Ph.D.,
Curator Emeritus of Ethnography

### **Central Coast Information Center**

Michal Cepak, Assistant Coordinator

### Invertebrate Zoology

Daniel Geiger, Ph.D.,
Curator of Malacology
Paul Valentich-Scott,
Curator Emeritus of Malacology
Vanessa Delnavaz, M.A.,
IZ Collection Manager
Lucie Gimmel,
Scientific Imaging Specialist
Matthew Gimmel, Ph.D.,
Schlinger Foundation Chair &
Curator of Entomology
Cara Fuller,
Curatorial Assistant

### John and Peggy Maximus Gallery

Linda Miller, Curator Marian McKenzie, Exhibit Designer

### Library

Terri Sheridan, Librarian Peggy Dahl, Library Assistant

### **Vertebrate Zoology**

Krista A. Fahy, Ph.D.,
Curator of Vertebrate Zoology
Paul W. Collins, M.A.,
Curator of Vertebrate Zoology
Julia Schorr, M.A.,
Curatorial Assistant
Jonathan Hoffman, Ph.D.,
Dibblee Curator Earth Sciences
Chris Everett, Fossil Preparator

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Development Officer

Melissa Baffa,
Development Officer

Sarah Clement,
Development Associate

Ali Nygaard,
Development Assistant

Becca Summers,
Development Officer

Sarah Grewe,
Event Planner

James Magallanes,
Events Assistant

### Membership

Leana Orsua, Membership Manager Kevin Paris, Membership Manager Katherine Ugoretz, Membership Assistant

### MARKETING DIVISION

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Director of Marketing
Owen Duncan, M.A.,
Content Manager
Juan Minera,
Senior Graphics Designer
and Webmaster
Jenna Savage Davis, M.F.A,
Graphic & Exhibits Designer

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Kevin Genovese. Director of Facilities Brent Flaaten. Lead Groundskeeper John Gonzales, Facilities Technician Salvador Reves, Custodian Sandro Coronado. Assistant Custodian Jacques Bekker. Lead Evening Custodian Tarince Tyler, Lead Evening Custodian Barbara Barker, Project Manager, Master Planning

### **EDUCATION DIVISION**

Jenna Hamilton-Rolle, M.S., Director of Education

#### **Astronomy**

Javier Rivera,
Astronomy Programs Manager
Rafael Cottom,
Lead Astronomy Programs

### **Teen Programs**

Jenna Rolle, M.S., Teen Programs Manager Charlie Thrift, Teen Programs Manger

### **Quasars to Sea Stars**

Andrew Klug, Shio Chiba,
Grayson Prater, Nadia Nava,
Aidan Murray, Alvaro Vaca
Mendoza, Daniel Velazquez,
Lily Michaels, Melayah Terrell,
Stella Scheim, Caleb Jensen,
Donna Entezari, Judah Nisen,
Kaitlyn Caldow, Lucy London,
Joaquin Bailey-Musacchio,
Sophia Copeland, Calvin Kubel,
Noa Marqalith, Annette McGuire

### **Community Education**

Stefanie Coleman, M.S., Community Education Manager Katherine Ugoretz, California Islands Symposia Coordinator

#### **Nature Adventures**

Ty Chin-Eddy, Ph.D.,
Nature Adventures Manager
Jesse Baker, Ed.D.,
Assistant / Instructor

### **School and Teacher Services**

Charlotte Zeamer, Ph.D., School & Teacher Services Manager Jessica Prichard, School & Teacher Services Coordinator (Mission Creek)

Rachel Metz, M.S., School & Teacher Services Coordin ator (Sea Center)

#### Nature Education

Sabina Thomas, Ph.D., Nature Education Manager

### **EXHIBITS DIVISION**

Frank Hein, M.A., Director of Exhibits Francisco Lopez, Exhibits Lead

Jeremiah Campbell, Exhibits Technician

Chris Orr, Exhibits Technician Jenna Savage Davis, M.F.A, Graphics & Exhibits Designer

### GUEST SERVICES DIVISION

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Director

Carl Rumpp,
Museum Store Assistant

Marinnae Hinahon,
Retail Inventory Coordinator

Jimmy Friery II,
Butterfly Coordinator

### **Guest Services**

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### **SEA CENTER**

Richard Smalldon, Director Sea Center Jose Lobato, Sea Center Manager

### **Programs and Exhibits**

Nora Frank,
Aquarist

Max Rudelic,
Aquarist

Brittani Skinner,
Volunteer Coordinator

Jose Lobato,
Supervisor Guest Services

Cali Moreno, Custodian

### Sea Center Interpreters and Guest Services

Kevin Arizmendi, Olivia Banez, Alexa Coburn, Karim Cortez, Sarah Ettman- Sterner, Charlotte Garcia, Saul Lopez-Villalta, Kirk Martin, Helen Stoll, Patrick Turner



