

Mississippi River Museum



Sachuest Visitor Center

About 90 percent of our projects reach or exceed projected visitation levels. That's one reason people hire us—they see a track record of projects that have had a wonderful response from the public.

Firm Overview

Lyons/Zaremba Inc. is an internationally recognized firm that specializes in the planning and design of exhibits for museums, visitor centers, nature centers, aquariums, and zoos. Richard Lyons and Frank Zaremba founded LZI in 1987. Today, principal Steve Lenox and his team bring together 60 years of combined design experience. The LZI team maintain a hands-on relationship with all phases of every project – from concept meetings, through final installation.

On our staff are experienced designers with backgrounds in industrial design, graphic design, architecture, landscape architecture, interactive software design, education, history, and art. To tailor expertise to the unique needs of each project, we organize additional researchers, writers, scientists, historians, artists, media experts and other specialists. These specialists are drawn from Boston's rich pool of talent as well as the region in which the project is located.

Our fabricator team has a similar depth of experience, particularly with wildlife and nature exhibits.



Miami MetroZoo



Wildlife Conservation Society's Congo Gorilla Forest



New England Aquarium West Wing

When designing exhibits,
architectural training
comes in handy

because you think in terms of museum
visitors moving through a space in an
experience that constantly evolves.

Awards

Over the years, Lyons/Zaremba Inc. has received numerous awards in recognition of our excellence in design.

American Institute of Architects

Western Mountain Region 2005 Merit Award for Flint RiverQuarium

American Zoo and Aquarium Association

- 1999-2000 Exhibit Award for the Wildlife Conservation Society's Congo Gorilla Forest
- 1999-2000 Curtis & Edith Munson Foundation Award for the National Aquarium in Baltimore's Amazon River Forest exhibit, demonstrating "excellence in exhibitry that conveys a strong conservation message"

American Association of Museums

ExComp 2000 Award for the Wildlife Conservation Society's Congo Gorilla Forest

Honor Awards Jury of the Boston Society of Architects

Citation for Design for planning and design of the New England Aquarium West Wing expansion in 1999

U.S. Fish & Wildlife Service

Named Frank Zaremba as an Honorary Historian of the Service for his work on the National Conservation Training Center

Print Magazine

Best in Exhibition Design Award for the New York Aquarium Discovery Cove Exhibit



U.S. Fish & Wildlife Service National Conservation Training Center



Liberty Science Center



U.S. Fish & Wildlife Service National Conservation Training Center

*We pay close attention
to museum visitors*

and their reactions to exhibits.

We notice which elements provide

them with the most rewarding

and enjoyable experiences.

Design Philosophy

Our goal is to create exciting, unique and memorable places where people can explore, discover and learn using all of their senses. We create exhibits that are accessible, enjoyable, and meaningful for an audience of diverse ages, learning styles, and cultural backgrounds.

We believe that meaningful exhibit design emerges from clear goals and powerful interpretive content. As storytellers working in three dimensions, we strive to deliver fresh, attractive stories that will surprise each visitor and awaken his or her sense of self-discovery.

By observing how people behave in public places—how they access information and how they interact with exhibits and each other—we've learned that we need to provide layers of experiences.

To achieve this, we vary the scale of exhibits; create multiple levels of learning opportunities; present multicultural points of view and balance cognitive and affective experiences. We create exhibits that serve as sustainable platforms for change and growth. If we succeed, the exhibit experience feels new and different every time visitors encounter it.



Mystic Aquarium Touch Tank

Design Process

Bringing our client's vision into reality varies with each project, but usually moves through the same four phases.

Schematic Design



Initial meetings with the client group discuss ideas, goals and desired outcomes. This stage is highly collaborative, with input sought from all relevant parties.

Many goals and objectives are collected and studied.

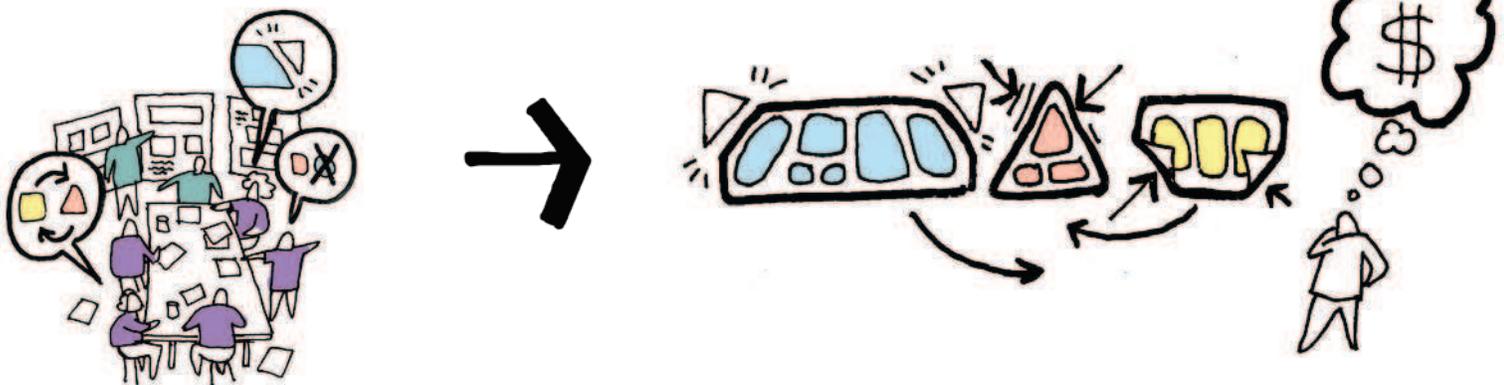
The LZI team apply their years of experience in crafting memorable visitor experiences. LZI balances objectives with the many ways visitors engage exhibits.

The goal of Schematic Design is to organize our clients' content into cohesive stories. Typically, several possible designs are developed.

LZI does not have a single "look", but strives to create solutions tailored to each client's need.

Design Development

We meet with our client group to present our design solutions for review and comment. With those comments, we then shape the preferred solution into a more final form.



LZI presents its Schematic Design ideas for client group review. This is also a highly collaborative meeting which shapes the preferred design.

The client group's comments and suggestions are taken back to the studio.

The LZI team refines the preferred design concept, incorporating client feedback and with an eye toward fabrication and budget realities.

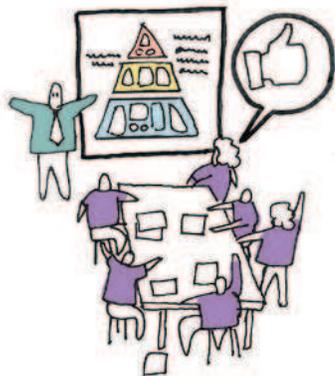
During Design Development, preliminary cost estimates help ensure the final design will come in within the client's budget ballpark.

Design Process

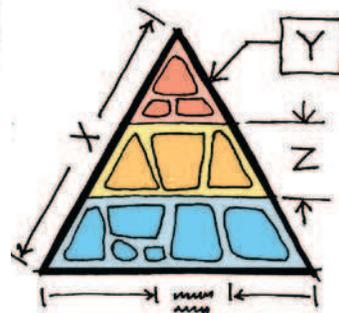
The latter phases of the design process are where the good ideas are turned into reality.

The LZI team present the finished design, incorporate any last adjustments, then produce documents for bidding and construction.

Contract Documents



The final design is presented for the client group's review and approval. This is where the mix of goals and objectives can be seen in final form.

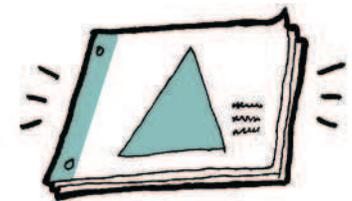


Documents are prepared with sufficient detail for a fabricator to construct the design.



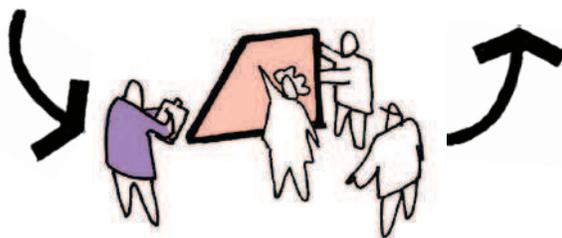
A final cost estimate often precedes bidding, as a way to ensure that the design stays within budget.

Consideration is given to architectural constraints. LZI's designers work closely with the fabricators to ensure that the exhibits will be both practical and durable.

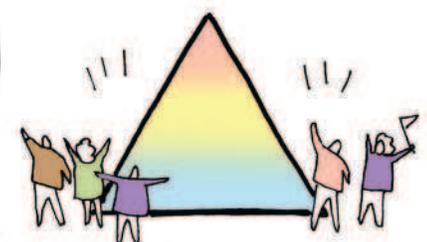
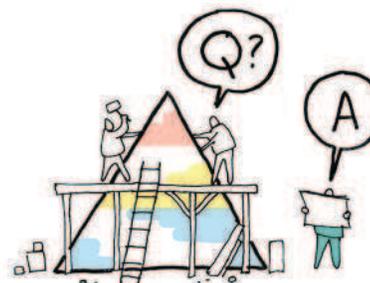


The final product of the Contract Documents Phase is a set of drawings and specifications which the fabricator can use for their final prices.

The preliminary budget work in the prior phases minimizes budget-shock surprises when the quotes come in.



Sometimes a design is too new or complex that it warrants prototyping or testing. The outcome of testing informs any adjustments necessary to the final design.



Contract Administration / Fabrication

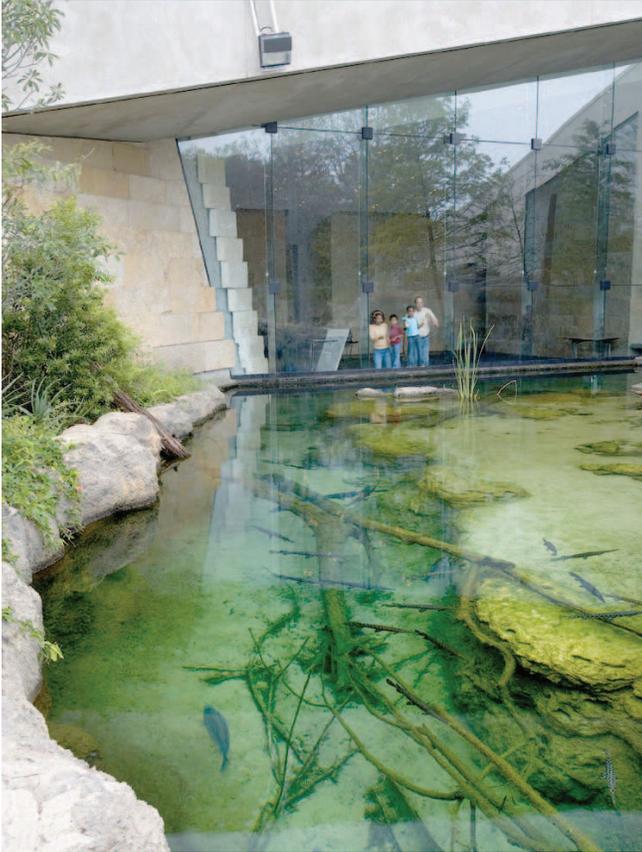
LZI's designers follow projects through fabrication and installation. This is particularly helpful when unforeseen problems might affect the integrity of the exhibit product.

The Lyons/Zaremba team follows a project from start-up meeting, to ribbon cutting, to resolving any warranty issues or user questions, post-opening.

Our goal is for our clients to have the best project possible.

Aquariums and Zoos

Lyons/Zaremba is one of the foremost leaders in the field of exhibit planning and design for aquariums and zoos. We design exhibits that provide humane care for animals, serve the requirements of husbandry, veterinary, and maintenance crews, and enlighten visitors with accurate and engaging educational content. By balancing these factors, we have created what many people consider to be some of the world's best aquarium and zoo projects.



Flint Riverquarium, Albany, GA



Amazon River Forest at National Aquarium in Baltimore, Baltimore, MD



Caribbean Coral Reef at Shedd Aquarium, Chicago, IL



Congo Gorilla Forest at Bronx Zoo, Bronx, NY

Historical Exhibits

The fact that we are based in Boston's historical Faneuil Hall Marketplace—with the site of the legendary Tea Party located nearby—may have something to do with our keen interest in exhibits with captivating historical content. We have not only planned and designed a variety of history exhibits, but have introduced appropriate historic content into aquariums, zoos, nature centers and children's museums. We work closely with our clients to seek out historians and other experts in the local and regional culture who can best augment our team with these kinds of projects.



National Conservation Training Center, USFWS, Shepardstown, MD



Central Arkansas Visitor Center, Little Rock, AR



Bermuda Natural History Museum, Bermuda



Albany Civil Rights Museum, Albany, GA

Nature and Science Centers

Lyons/Zaremba has planned and designed a variety of small, yet highly engaging, hands-on nature and science centers. We are familiar with many global ecosystems—each with their distinct plants, animals, geology, climate, and ecological vulnerabilities. Through cost-efficient media and durable, inventive interactive exhibits, we work with our clients to encourage visitors to become better stewards of the living world around them.



Environmental Education Center, Audubon Society of Rhode Island, Bristol, RI



U.S. Fish & Wildlife Long Island Visitor Center, Shirley, NY



Apalachicola National Estuarine Research Reserve Visitor Center, Eastpoint, FL



Florida Keys Eco-Discovery Center, NOAA & National Marine Sanctuaries, Key West, FL



Trinity River Audubon Center, Dallas, TX

Visitor Centers

One-of-a-kind visitor centers celebrate the “sense of place” that both local visitors and tourists enjoy. We’ve had the pleasure of planning and designing a number of these facilities across North America.

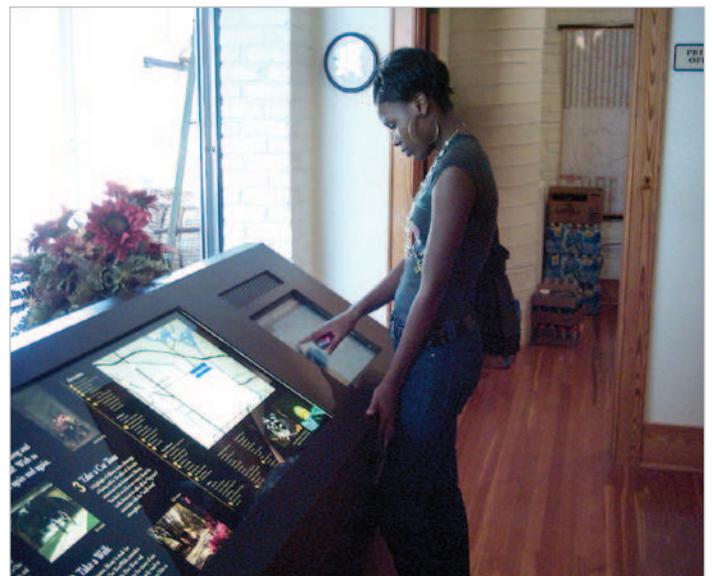
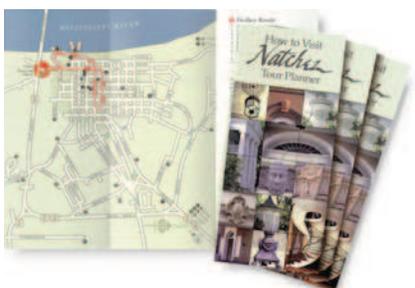
In this type of facility, our goals are to attract, welcome, and orient visitors; clearly present visitors with stories and facts, addressing the uniqueness of each visitor center; and help guests effectively manage their visit.



Charleston Visitor Center, Charleston, SC



Natchez Visitor Center, Natchez, MS



Albany Welcome Center, Albany, GA



Interactive Map at NOAA National Marine Sanctuary, Hilo, HI

Lyons/Zaremba Inc. Exhibit Planning + Design



Gifu Freshwater Aquarium, Gifu, Japan



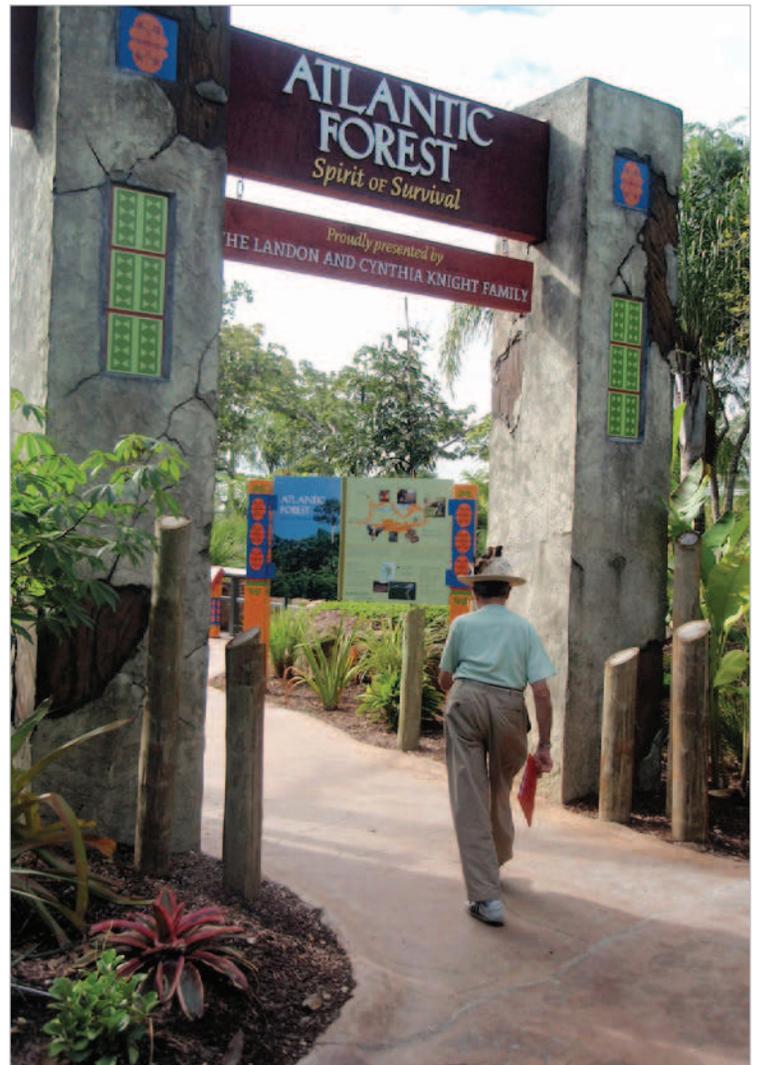
Penguin Coast at Gifford Zoo, Syracuse, NY



Trinity River Audubon Center, Dallas, TX

Immersive Experiences

Lyons/Zaremba is recognized as a leader in creating immersive environments for both animals and visitors. We constantly look for ways to create familiar, comfortable, and natural habitats for animals, while immersing visitors in surprising, foreign worlds. This approach provides visitors with exciting, unexpected vantage points—often “first time” life experiences—and new ways to see a living world from the animals’ points of view.



Gateway Within Amazon & Beyond at Zoo Miami, Miami, FL

Themed Play

Many of our visitors are families with pre-school age youngsters. That is why we pay a lot of attention to age-appropriate themed play opportunities. We understand that learning and memory begin at early ages. Therefore, we strive to promote multi-generational interactions within families.

It is also our desire to see that kids have playful and imaginative experiences that will lead to a heightened interest in museums, aquariums and zoos—even as they grow up to be parents.



Amazon and Beyond at Zoo Miami, Miami, FL



Museum of Arts & Sciences Discovery House, Macon, GA



Jungle Journey Playground at Zoo Miami, Miami, FL



African Forest at Houston Zoo, Houston, TX

Diverse Experiences

In our complex, multicultural world visitors come to exhibit-oriented institutions with a wide range of abilities, personal interests, experiences and styles of learning.

Some visitors prefer a leisurely experience; some seek detailed scientific information; some like to read; and some benefit most from auditory or tactile learning. Because we've been involved with virtually every kind of contemporary exhibit style used in museums today, we strive to provide diverse experiences for our visitors.



Congo Gorilla Forest at Bronx Zoo, Bronx, NY



Seacoast Science Center, Rye, NH



African Forest at Houston Zoo, Houston, TX



South Carolina Aquarium, Charleston, SC



USFWS Long Island NWR Visitor Center, Shirley, NY

Memorable Experiences

Maybe you can recall a school field trip to a museum, aquarium or zoo that you've remembered all your life. Maybe it was just one exhibit—those rocks that glowed in the dark or the beauty of a shark—that became a cherished memory. Those are the kinds of exhibits we love to create—exhibits that, in at least one sense, last a lifetime. Often, generating such a memorable experience involves providing visitor with a completely new vantage point. We pride ourselves on creating exhibits that enable people to view the world as if they have a new set of eyes.



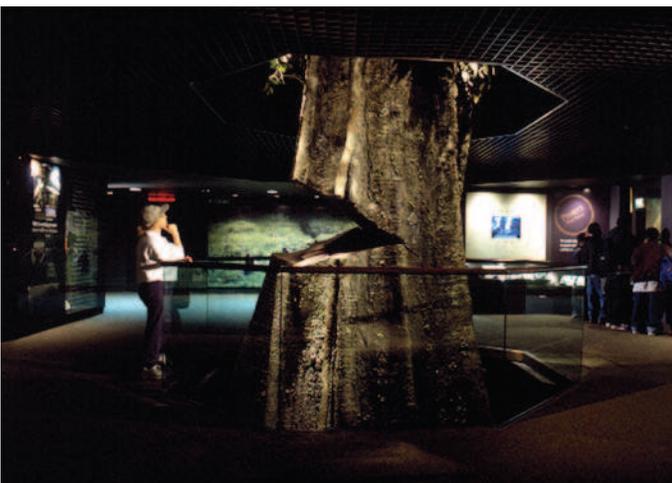
Environmental Education Center at Audubon Society of Rhode Island, Bristol, RI



Harbor Seal Exhibit at New England Aquarium, Boston, MA



Alaskan Coast at Mystic Aquarium, Mystic, CT



Congo Gorilla Forest at WCS Bronx Zoo, Bronx, NY



Aquarium Focus Tank at Tennessee Aquarium, Chattanooga, TN

Interpretive Graphics

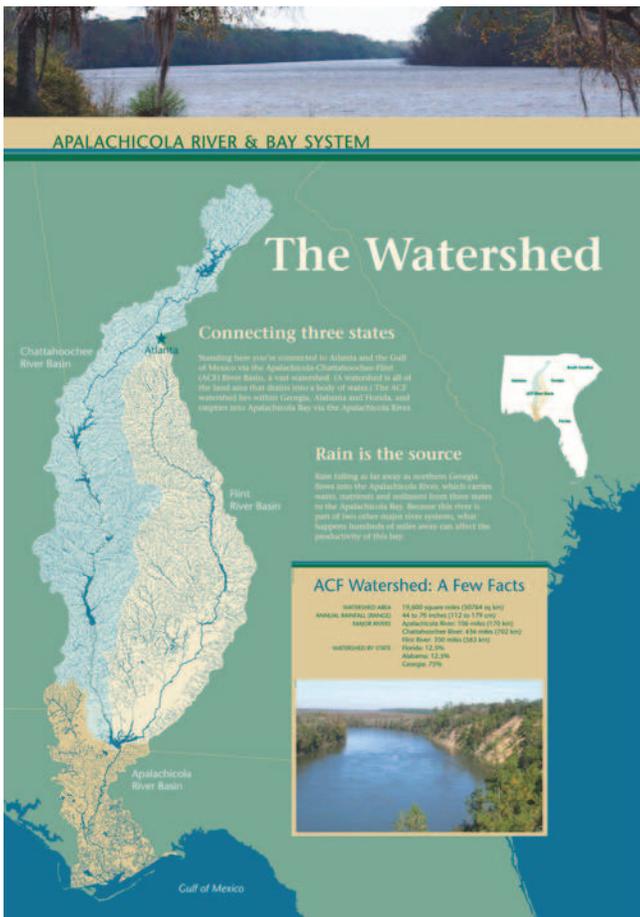
As museums change and materials improve, we constantly strive to seek new ways to present and preserve graphic messages. Our work takes on many forms including interpretive exhibits, printed materials, on-screen computer graphics, banners, signage, logos, institutional collateral and related merchandise. We always keep the practical issues of durability, maintenance and cost at the forefront of our thinking.



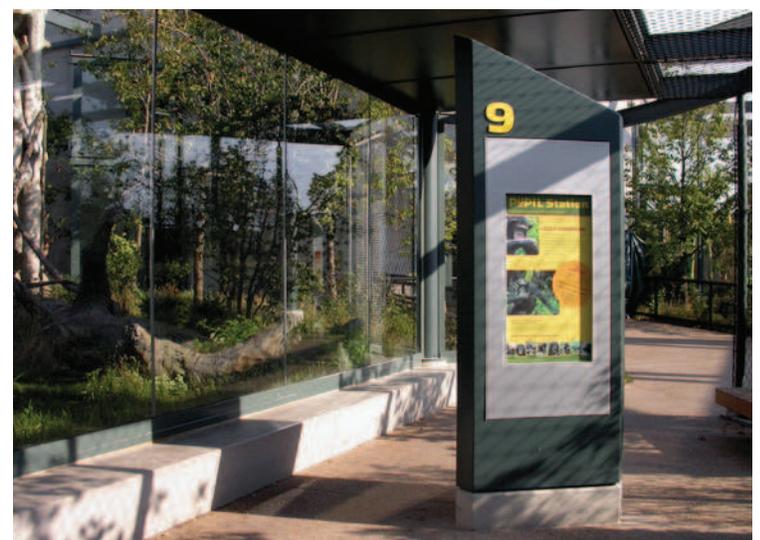
Oceans at Indianapolis Zoo, Indianapolis, IN



Congo Gorilla Forest at WCS Bronx Zoo, Bronx, NY



Apalachicola National Estuarine Research Reserve Visitor Center, Eastpoint, FL



African Apes at Lincoln Park Zoo, Chicago, IL



Entry Signage for Zoo Miami, Miami, FL



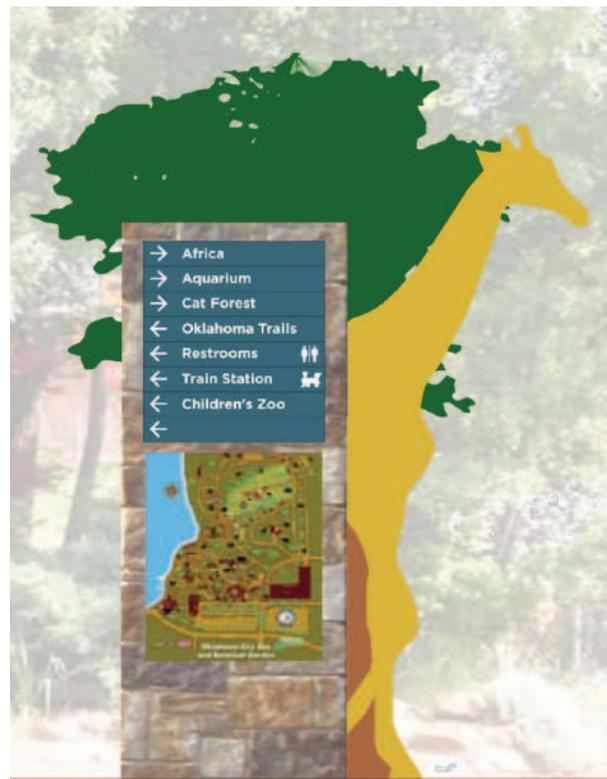
Advance Organizers for Amazon & Beyond at Zoo Miami



Arrival Signage for Florida Keys Eco-Discovery Center, Key West, FL

Wayfinding & Signage

Whether a function of ongoing changes within existing facilities, or in response to the needs of new facilities, visitors will always need to feel welcomed upon arrival, have the opportunity to orient themselves, and ultimately find their way throughout the zoo, aquarium, nature center or any other public facility they have chosen to visit. Lyons/Zaremba has had the opportunity to provide a variety of wayfinding and general signage systems for our clients.



Wayfinding System for Oklahoma City Zoo, Oklahoma City, OK



Wayfind System for Zoo Miami, Miami, FL

Interactive Media Programs

How do you provide multiple layers of stories and information without overwhelming visitors? One solution is media-based exhibits. Over the years, we've researched, written and designed innovative media presentations for use in computer "smart stations," pocket theaters, and interactive touch-screen technology.

At the same time, we believe that effective media should be "state of the shelf" to the greatest degree possible. That is, we prefer to use known technologies to minimize costs and time-consuming repairs for our clients.



Oceans at Indianapolis Zoo, Indianapolis, IN



Center for Interactive Learning at the Gulf of Maine Aquarium, Portland, ME



Amazon & Beyond at Zoo Miami, Miami, FL



Coastal Rhythms at New England Aquarium, Boston, MA

Fine Arts Exhibits



Having owned and operated Flag Gallery, a fine contemporary arts gallery, while also serving as the Gallery Director for the School of the Museum of Fine Arts Boston, Steve Lenox, Principal of Lyons/Zaremba Inc. brings a great deal of experience to the design and installation of fine arts exhibits. In addition to working with the above mentioned galleries, Steve has designed and installed exhibits in the Boston area including: the Museum of Fine Arts; Boston City Hall, Boston Architectural College; The Boston Arts Center; The Boston Arts Festival; Federal Reserve Bank, Boston; and the Concord Art Association. Steve has also designed and installed environmental art installations at the Brimmer Street Garage on Beacon Hill, as well as outdoor pieces for private residences.



Museum of Fine Arts, Boston, MA



School of the Museum of Fine Arts, Boston, MA



Discovery Island
Lifting Interactives

Wertheim Visitor Center

U.S. FISH & WILDLIFE SERVICE
Long Island National Wildlife Refuge Complex

Shirley, New York

PROJECT FACTS

scope	Exhibit Planning and Design
size	1,200 SF
budget	\$1.2M for exhibits
completion	May 2011



A closer look at nature

LZI provided content development and interpretive exhibit design services for this project, which focuses on the ecosystems found at the Wertheim NWR, while referencing important habitats and species found at the other 9 refuges comprising the Long Island NWR Complex. For this project, LZI designed a mix of interpretive and interactive dioramas, a river tank exhibit with live fish, a variety of interpretive and interactive discovery elements, as well as interpretive graphics.



Discovery Island and Habitat Wall

One of the feature exhibits designed for this project will allow visitors to experience a simulation of being in the marsh at early dawn as part of a species census where they will not only learn about the sounds of wildlife around them, but will foster a greater understanding and appreciation for the work of the refuge system and its staff.



Visitors can explore habitats like the salt marsh and pine barrens.



Osprey Photo Mosaic



Assabet River Visitor Center

U.S. FISH & WILDLIFE SERVICE
 Eastern Massachusetts National Wildlife Refuge Complex
Sudbury, Massachusetts



PROJECT FACTS

scope	Exhibit Planning and Design
size	1,000 SF
budget	\$750,000 for exhibits
completion	2010



Habitat Interpretive Panel

The design/build team of LZI (prime) along with Split Rock Studios, Peace River Studios, and Paul Erickson Communications have added yet another new interpretive center for the US Fish & Wildlife Service's National Wildlife Refuge (NWR) system within their Region 5 territory. Set within the 2,229 acre Assabet River NWR in Sudbury, MA, the new visitor center houses satellite offices for the Eastern Massachusetts NWR Complex, as well as the interpretive exhibits that present and interpret the upland and wetland habitats found within the eight refuges of the Complex. A critical goal for the project is to foster the visitor's sense of stewardship in caring for and protecting the living world in their own backyard, while gaining greater understanding and appreciation of the work of the NWR system.

Interactive Animal Q&A Games



Fall/Spring Diorama with Information Trilons and Artifact Drawers



The exhibits are programmed and designed to provide visitors with an interactive, multi-sensorial experience that enhances their understanding and appreciation of the work of the NWR, the ecosystems they manage, and how these refuge habitats contribute to the health and well being of migratory and resident species of animals. The central diorama provides visitors with a greater understanding of the natural world found at this refuge, while comparing and contrasting the opposing seasons of spring and autumn.

Lyons/Zaremba Inc. Exhibit Planning + Design



Local Activities



Visitors learn about local flora and fauna that vary by season



Laser pointers identify key coastal species depicted in the mural.



Sachuest Visitor Center

U.S. FISH & WILDLIFE SERVICE
Sachuest Point National Wildlife Refuge Complex
Middletown, Rhode Island

PROJECT FACTS

scope	Exhibit Planning, Graphic Design and Project Management
size	1600 SF
budget	\$500,000 for exhibits
completed	August 2012



Plover diorama

The LZI team created new exhibits to fill out an existing visitor center on one of the many Rhode Island Fish & Wildlife Refuges. Dioramas were fabricated for the three major habitat types on the refuge. Accompanying graphics featured key species and management challenges associated with that habitat. A diving ducks exhibit highlighted the refuge's importance to migrating waterfowl. A small touch pool is nestled between giant fabricated boulders which display the zonation of intertidal life.



A topographic model of the peninsula helps orient visitors to the accessible hiking trails and points of interest. Video loop displays highlight six points.



Interactive exhibits allow visitors to explore refuge management decisions, or even take on the role of a baby piping plover avoiding dangers on its way to feed at the shoreline.



Big Woods Diorama

Witt Stephens, Jr Central Arkansas Nature Center

ARKANSAS GAME and FISH COMMISSION

Little Rock, Arkansas



Interactive Arkansas Activities Map

Located in downtown Little Rock, adjacent to the Clinton Library, Arkansas Game and Fish is building a new nature center focusing on the state's diversity of natural places. Exhibits are designed to highlight outdoor recreation opportunities available at over 250 public areas and the important role played by the Game and Fish Commission in restoring and managing their areas.

PROJECT FACTS

scope	Exhibit Planning and Design
size	16,800 SF
budget	\$2M
architect	Cromwell Architects Engineers, Inc.
completed	2008



Arkansas River aquarium



AGFC Division Display Cases



Old Trapper's Cabin



Tabletop
Map Kiosk

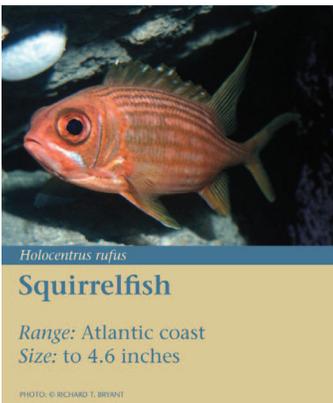
Apalachicola National Estuarine Research Reserve Visitor Center

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Eastpoint, Florida

PROJECT FACTS

scope	Exhibit Planning and Design
size	5,000 SF
budget	\$1M
architects	Eskew + Dumez + Ripple
completion	2009



Holocentrus rufus

Squirrelfish

Range: Atlantic coast
Size: to 4.6 inches

PHOTO: © RICHARD T. BRYANT

Typical Identification Label

Located at Eastpoint, Florida on Apalachicola Bay, the new Bay Visitor Center will bring visitors face to face with many of the aquatic denizens of this special ecosystem. Aquarium tanks designed as large tabletop-height displays focus on the river, bay, and gulf. Interactives and graphics highlight the interconnectedness of each part of the estuary. Additional exhibits provide information on other nature centers, trail networks, and wildlife viewing areas within the watershed.



Apalachicola Bay Nursery of the Gulf

The shallow waters of the bay are protected from the open water of the Gulf by barrier islands. Here salt and fresh water meet to form this highly productive estuary, a nursery ground for juvenile fishes. 90% of Florida's oysters are found here.



The Gulf of Mexico A Productive Fishery

The Gulf of Mexico relies on its estuaries for its diverse population of fishes who are born and begin life in those protected waters. Today the Gulf of Mexico fishery is the most productive in North America.



Typical Graphic Panels

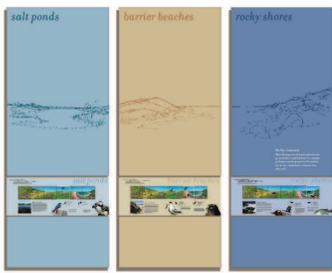


Plover
Habitat Game

Kettle Pond Visitor Center

U.S. FISH & WILDLIFE SERVICE

Charlestown, Rhode Island



Ecosystems Wall

The U.S. Fish & Wildlife Service contracted Lyons/Zaremba to design the interpretive exhibits that orient visitors to six coastal Rhode Island National Wildlife Refuges. Under the Service's theme "individually unique, ecologically connected," the exhibits inform visitors about the vital life support network these refuges provide for hundreds of animal and plant species—some of which are rare and endangered.

PROJECT FACTS

scope	Exhibit Planning and Design
size	3,500 SF
budget	\$550,000 for Exhibits
architect	William D. Warner Architects
completed	2004



Diorama



Interpretive Railing

Accurate dioramas replicating sandy beaches, rocky shores, and other ecosystems surprise visitors with the state's diversity of life. Murals and large-scale photography, including a photo-mosaic of the iconic harlequin duck, illuminate the Service's mission to keep "Wildlife First."



Exterior View

State House Hall of Flags

COMMONWEALTH of MASSACHUSETTS

Boston, Massachusetts



PROJECT FACTS

scope	Exhibit Design
size	1,500 SF
budget	\$60,000 for Exhibits
completed	1988

Lyons/Zaremba collaborated with Martha Richardson and Whitney Smith to prepare eight alcoves in the rotunda of the Commonwealth's State House for exhibits honoring state flags. A temporary exhibit was created using backlit and full-scale photographic enlargements of select flags from the State's collection of 400, which had been removed from public display for restoration and protective storage.



Rotunda



Video Wall Exhibit

Charleston Visitor Center

CITY of CHARLESTON

Charleston, South Carolina

PROJECT FACTS

scope	Exhibit Planning and Design
size	13,000 SF
budget	\$1.2M
architect	Cooper + Robertson and Bohm – NBBJ
completed	1991

When Charleston needed a new visitor center they selected Lyons/Zaremba. LZJ collaborated with city officials, historians, preservation experts and museum curators to help tourists learn about and plan their visits to this popular southern city.



Glass Floor Peninsula Model

Today the completed center is located in the restored 19th century J.R. Deans Warehouse—the site of America’s first passenger railroad station. Visitors venture over a model of the city, into a re-created “single” house and through interpretive and interactive exhibits. The center also brings together visitors and craftspeople in a lively marketplace, where visitors can purchase and take home a memory of Charleston.



Orientation Graphics



Stereoscopic viewer



Replicated "Single" House at Charleston Visitor Center



Cohen Center for Interactive Learning

GULF of MAINE RESEARCH INSTITUTE

Portland, Maine

PROJECT FACTS

scope	Concept Planning and Design
size	2,500 SF
budget	\$2.5 Million
architect	SMRT, Portland, ME
completed	2005



A team of designers including Lyons/Zaremba and Dana Hutchins of Image Works led by the Gulf of Maine Research Institute staff developed, proto-typed, and opened a virtual learning environment in Portland like none other.

Fifth graders from all over the state of Maine have encountered the *Mystery of the X-Fish* and *Lobster: Untold Tales*, learning to solve scientific questions individually and in groups in an interactive setting.

Interactive stations ask the questions and students form a hypothesis prior to group synthesis in a theater setting.



The Control Room above presents data and the questions, and then organizes responses.



Interior Exhibits

Centennial Exhibit

PAUL REVERE HOUSE

Boston, Massachusetts

PROJECT FACTS

scope	Interpretive System and Graphic Design
size	1,250 SF
budget	\$50,000
completed	1975

Prior to forming Lyons/Zaremba Inc., Richard Lyons and Charles Beier were hired to prepare Boston's famed Paul Revere House for the National Bicentennial Celebration. The challenge: to enable huge crowds to visit the house, while maintaining high quality experiences for visitors and protecting the collections.



Kitchen



Exterior View, Revere House Courtyard

The solution: a temporary rear-lit graphic handrail system that directed visitors in a one-way traffic flow. The handrail limited full access to rooms, yet provided visitors with a personal and highly entertaining history of Paul Revere and his family.



Map of Paul Revere's Midnight Ride

Hurricane Exhibit



Atmosphere and Estuary Exhibits

LIBERTY SCIENCE CENTER

Jersey City, New Jersey

PROJECT FACTS

scope	Exhibit Design, Graphic Design, Project Management
size	7,300 SF
budget	\$500,000 for Exhibits
architects	E. Verner Johnson, The Hillier Group
completed	1992



Solar Observatory Lighthouse

Lyons/Zaremba Inc. was invited as one of four exhibit design firms to plan and design exhibits for this \$50 million science center. Working with the staff, Lyons/Zaremba Inc. developed two exhibition areas: the first focuses on the estuary of New York Harbor and its environs, and features four estuarine habitats; the second focuses on the atmosphere, creatively illustrating its basic principles.



Interactive Stream Table



Marsh Tank Exhibit

Both galleries employ a variety of interactive exhibits such as a stream table and a Bernoulli bench. These two exhibits are bridged by a twenty-foot lighthouse containing a solar telescope.



Interior View

Natchez Visitor Center

CITY of NATCHEZ and NATIONAL PARK SERVICE

Natchez, Mississippi

PROJECT FACTS

scope	Exhibit Planning and Design
size	10,000 SF
budget	\$1.9M
architect	Eskew + Filson Architects
completed	1998



A center of the pre-Columbian mound-building culture, a frontier trading post and one of the wealthiest towns in pre-Civil War America, the City of Natchez is packed with a rich and diverse history. Lyons/Zaremba provided programming and exhibit design services to the City of Natchez for their visitor reception and inter-modal transportation center.



Main Exhibit Hall with "Motion" Mural

The exhibit design includes a mural based on a landscape painting by John James Audubon, an interactive steamboat pilot house and a series of storytelling exhibits. This project is developed in conjunction with the National Park Service and will serve as a model for future partnership projects.



Glass Floor Peninsula Model



DEA Wall of Honor Memorial Tribute

DRUG ENFORCEMENT ADMINISTRATION

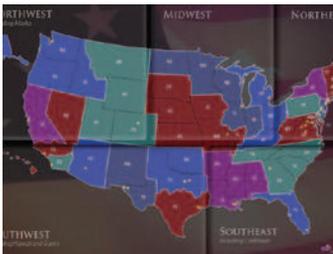
Washington, D.C.

PROJECT FACTS

scope	Exhibit Planning, Design and Fabrication
budget	\$1.3M
fabrication	Mystic Scenic Studios and Dimentionals, Inc.
completed	2005



Attract Screensaver



Division Selection Menu

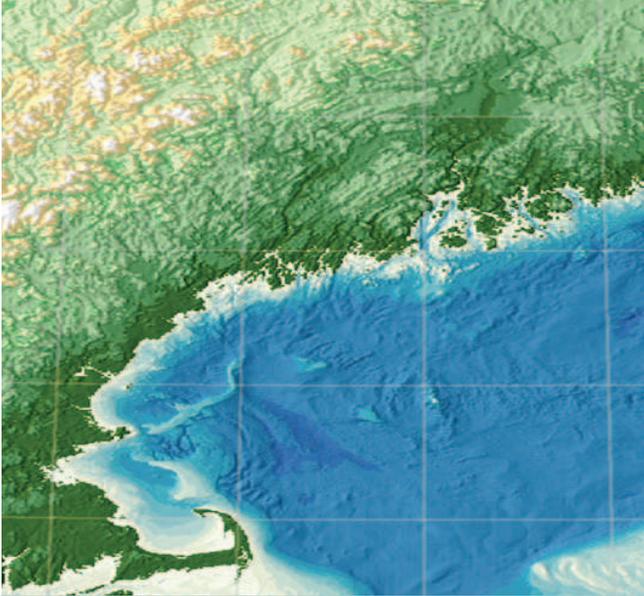


Profile with Image

Over the years, fighting the war against drugs, the Drug Enforcement Administration has lost several of its employees and agents. These individuals made the ultimate sacrifice for their country and deserve a fitting tribute for that commitment. The DEA therefore came to Lyons/Zaremba to create a memorial that would honor their memories. 44 memorials installed at different DEA offices across the U.S. include portraits of each of the fallen. A media component allows for more careful study of each individual and the circumstances surrounding their life and death.



12' Unit Elevation



Gulf of Maine Aquarium Master Plan

GULF of MAINE AQUARIUM

Portland, Maine

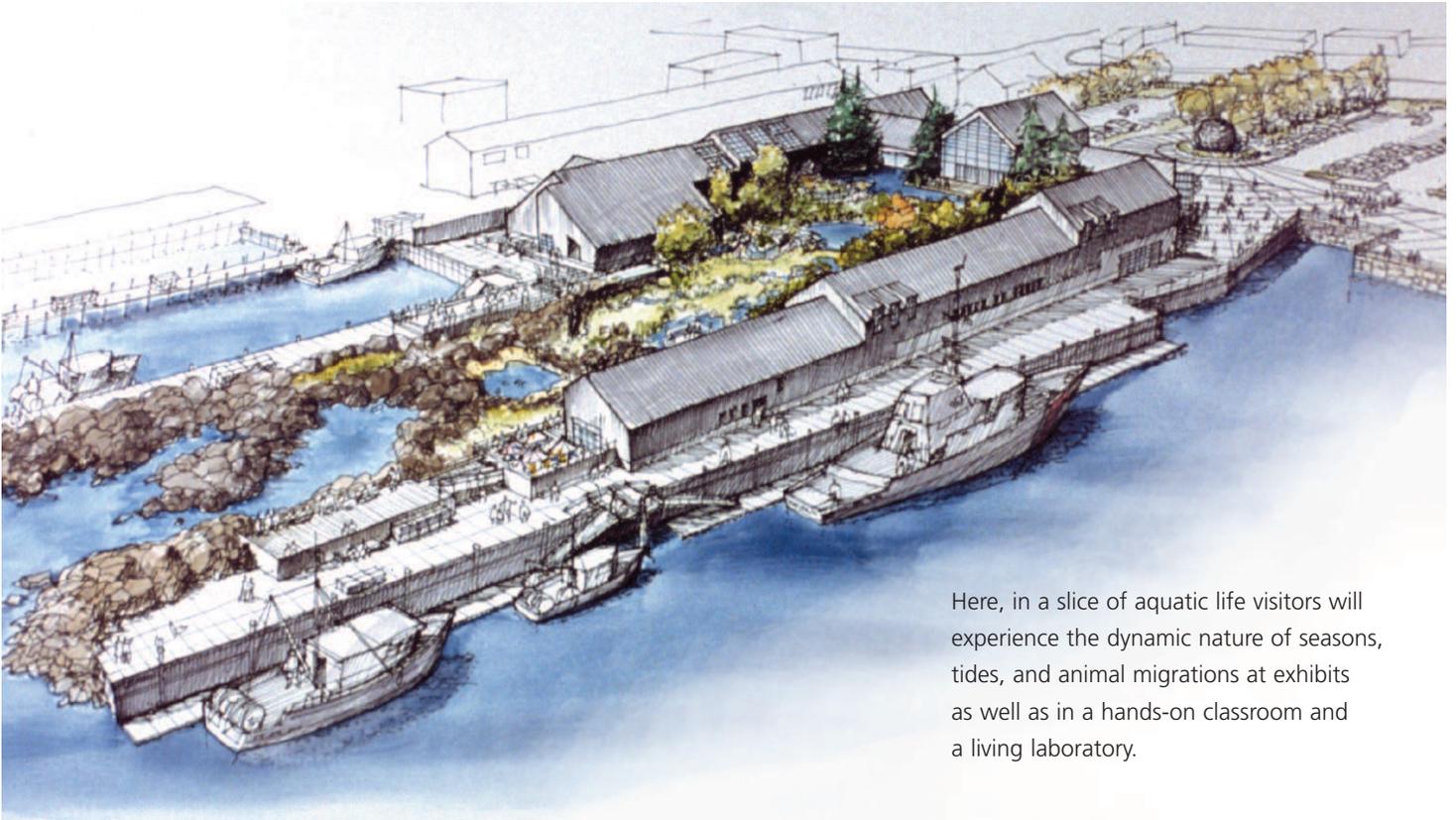
PROJECT FACTS

scope	Master Planning
size	45,000 SF indoor 149,000 SF outdoor
budget	\$8.6M for Exhibits
architects	EHDD Architects and Winton Scott Architects
completion	undetermined



Remote Theater

The Gulf of Maine Aquarium collaborated with Lyons/Zaremba to develop a master plan that will accommodate large summer crowds and a reduced off-season audience. The team came up with an economical solution: in addition to indoor exhibits, we created a cost-effective outdoor ecosystem that can absorb and engage most summer visitors. This ecosystem features upland and coastal forests, wetlands, and a rocky shore.



Master Plan

Here, in a slice of aquatic life visitors will experience the dynamic nature of seasons, tides, and animal migrations at exhibits as well as in a hands-on classroom and a living laboratory.

Steve Lenox

PRINCIPAL

PROJECTS

African Forest Exhibit at Houston Zoo

Houston, Texas

Audubon Society of Rhode Island Environmental Education Center

Bristol, Rhode Island

Bermuda Aquarium, Museum & Zoo Natural History Museum

Hamilton Parish, Bermuda

Lincoln Park Zoo Regenstein Center for African Apes

Chicago, Illinois

Miami MetroZoo Amazon and Beyond

Miami, Florida

Mystic Aquarium and Institute for Exploration

Mystic, Connecticut

National Mississippi River Discovery Center and Aquarium

Dubuque, Iowa

The Oceans at Indianapolis Zoo

Indianapolis, Indiana

The John G. Shedd Aquarium Reef and Rotunda Renovation

Chicago, Illinois

U.S. Fish & Wildlife Service Assabet River Visitor Center

Sudbury, Massachusetts

The Toledo Zoo Aquarium Renovation Project

Toledo, Ohio

U.S. Fish & Wildlife Service Kettle Pond Visitor Center

Charlestown, Rhode Island

U.S. Fish & Wildlife Service Long Island Visitor Center

Shirley, New York

California Trail at Oakland Zoo

Oakland, California

Steve Lenox is a principal at Lyons/Zaremba Inc. with an impressive background in exhibit planning and design, project management, and museum operations. Known throughout the industry for his past work, Steve blends his concern for the “visitor experience” with the demands for aesthetic and technical excellence. Prior to joining the firm in 1997, Steve worked for ten years with Joseph A. Wetzel Associates, Inc. (JAWA) where he was an exhibit designer, 1987-90; associate, 1990-93; and vice president and principal, 1993-97. Steve also worked five years at the New England Aquarium, Boston, where he was an exhibit designer, 1982-85; and curator of exhibits and graphics, 1985-87. Additionally, Steve worked for the School of the Museum of Fine Arts, Boston where he was the assistant director of exhibitions, 1977-81; and director of exhibitions, 1981-82.

EDUCATION

Tufts University, Medford, MA

1975–77 Bachelor of Fine Arts

School of the Museum of Fine Arts, Boston, MA

1974–1976

SYMPOSIUM

Interactivity at AYM, New York, NY

1999 Panelist

AZA Regional Conference, Boston, MA

1998 Author/Speaker, Programming for Zoos and Aquariums

AZA National Conference, Honolulu, HI

1996 Co-author, The Revitalization of Zoos and Aquariums

AZA National Conference, Seattle, WA

1995 Author/Speaker, The Florida Aquarium: An Overview of Exhibits and Interpretive Programs

AFFILIATIONS

American Zoo and Aquarium Association; American Association of Museums; PADI Advanced Open Water Scuba Diver; Society of Environmental Graphic Designers

Micheal Shackelford

SENIOR EXHIBIT DESIGNER

PROJECTS

African Forest Exhibit at Houston Zoo

Houston, Texas

Audubon Society of Rhode Island Environmental Education Center

Bristol, Rhode Island

Congo Gorilla Forest

Bronx, New York

Miami MetroZoo Amazon and Beyond

Miami, Florida

Mystic Aquarium and Institute for Exploration

Mystic, Connecticut

National Mississippi River Discovery Center and Aquarium

Dubuque, Iowa

NOAA/NMS Hawaiian Islands Coral Reef Interpretive Center

Hilo, Hawaii

Trinity River Audubon Center

Dallas, Texas

U.S. Fish & Wildlife Service Assabet River Visitor Center

Sudbury, Massachusetts

U.S. Fish & Wildlife Service Cape May Visitor Center

Cape May Court House, New Jersey

U.S. Fish & Wildlife Service Edwin B. Forsythe Visitor Center

Oceanville, New Jersey

U.S. Fish & Wildlife Service Kettle Pond Visitor Center

Charlestown, Rhode Island

U.S. Fish & Wildlife Service Long Island Visitor Center

Shirley, New York

U.S. Fish & Wildlife Service Mingo Visitor Center

Puxico, Missouri

Wetherbee Planetarium and Science Museum

Albany, Georgia

Micheal Shackelford is an exhibit designer for Lyons/Zaremba Inc. who brings a wide range of experience to the firm. Micheal's talent lies in his ability to work both two and three-dimensional, while also having a great skill in developing and incorporating content into every aspect of his work. His greatest talent however is in the merging of content into highly engaging and informative interactive elements that become part of the visitor experience. Micheal has a background in commercial design and technical illustration, and holds an advanced degree in education. Micheal has been involved in all phases of exhibit projects. Having once worked as a designer and project manager for F.W. Dixon Company, a 95 year old exhibit fabrication firm located in Woburn, Massachusetts, Micheal's experience is well grounded in the realities of fabrication yet is balanced by true vision and creative problem solving.

EDUCATION

Cambridge College, Cambridge, MA

1991 Master of Education

Bemidji State University, Bemidji, MN

1984 Bachelor of Science, Technical Illustration and Commercial Design, cum laude

Lyons/Zaremba is proud of the projects we have produced over the years and encourage potential new clients to contact any and all of the following references to learn more about our firm.

U.S. Fish & Wildlife Service
Assabet River National Wildlife Refuge
Ms. Susan Russo
73 Weir Hill Road
Sudbury, MA 01776
978.443.4661 x34

U.S. Fish & Wildlife Service
Sachuest Point National Wildlife Refuge
Ms. Janis Nepshinsky
Project Manager
U.S. Fish & Wildlife Service
50 Bend Road
Charlestown, RI 02813
401.364.9124 x28

U.S. Fish & Wildlife Service
Long Island National Wildlife Refuge
Ms. Michelle Williams
U.S. Fish & Wildlife Service
360 Smith Road
Shirley, NY 11967
631.286.0485 x112

Since 1987, Lyons/Zaremba Inc. has developed exhibit projects for aquariums, zoos, nature centers, museums, and visitor centers including the following:

Albany Tomorrow, Inc.

Albany Civil Rights Institute
Flint RiverQuarium
Flint RiverQuarium Aviary
Wetherbee Planetarium and Science Museum
Albany, Georgia

Aquarium of Niagara

Master Plan and Conceptual Exhibit Design Services
Niagara Falls, New York

Aquarium of the Pacific

Expansion Master Plan
Long Beach, California

Arkansas Game & Fish Commission

Witt Stephens, Jr.
Central Arkansas Nature Center
Little Rock, Arkansas

Arts Partnership of Spartanburg

Spartanburg Cultural Arts Facility Master Plan
Spartanburg, South Carolina

Audubon Society of Rhode Island

Environmental Education Center
Bristol, Rhode Island

Baylor University

Strecker Museum
Waco, Texas

Bermuda Aquarium, Museum & Zoo

Natural History Museum
Hamilton Parish, Bermuda

City of Atlanta, Recreation Authority

Atlanta Aquarium Master Plan
Atlanta, Georgia

City of Charleston

Charleston Visitor Center
South Carolina Aquarium
Charleston, South Carolina

City of Cleveland Parks Department

Cleveland Metroparks Zoo Master Plan
Cleveland, Ohio

City of Dallas

Children's Aquarium at Fair Park
Trinity River Audubon Center
Dallas, Texas

City of Natchez and National Park Service

Natchez Visitor Center
Natchez, Mississippi

Commonwealth of Massachusetts Hall of Flags

Boston, Massachusetts

Commonwealth of Massachusetts and Department of Environmental Management

River Bend Farm
Uxbridge, Massachusetts

Connecticut Audubon Society

Coastal Center at Milford Point
Milford, Connecticut

Dallas Parks and Recreation Department

Children's Aquarium at Fair Park
Trinity River Audubon Center
Dallas, Texas

Drug Enforcement Administration

Wall of Honor Memorial Tribute
Washington, D.C.

The Florida Aquarium

Expansion Master Plan
Tampa, Florida

Florida Department of Environmental Protection

Apalachicola National Estuarine Research Reserve Visitor Center
Apalachicola, Florida

Florida Oceanographic Society

Master Plan
Stuart, Florida

Great Waters Aquarium

Master Plan
Cleveland, Ohio

Gulf of Maine Aquarium

Aquarium Master Plan
Laboratory Building Exhibits
Portland, Maine

Hamilton Betts

Puerto Rico Eco-Center Master Plan
San Juan, Puerto Rico

Hawk Mountain Sanctuary

Interpretive Center Master Plan
Kempton, Pennsylvania

Houston Zoo

African Forest Exhibit
Houston, Texas

Indianapolis Zoo

Oceans Building
Indianapolis, Indiana

Earthpark

Concept Planning
Des Moines, Iowa

Liberty Science Center

Atmosphere and Estuary Exhibits
Jersey City, New Jersey

Lincoln Park Zoo

Regenstein Center for African Apes
Chicago, Illinois

Living Planet Aquarium

Concept Study
Salt Lake City, Utah

Massachusetts Audubon Society

Wellfleet Bay Wildlife Sanctuary
Wellfleet, Massachusetts

Massachusetts Horticultural Society

Plantmobile
Wellesley, Massachusetts

Miami MetroZoo

Amazon and Beyond
Main Entry Signage
Playground
Wacky Barn
Miami, Florida

Miami Seaquarium

Renovation and Expansion Master Plan
Miami, Florida

Mitsubishi, Ltd.

Gifu Aquarium
Gifu, Japan

National Maritime Museum of the Gulf of Mexico

Planning and Design of Museum
Mobile, Alabama

Museum of Arts & Sciences

Discovery House
Museum Master Development Plan
Macon, Georgia

Mystic Aquarium and Institute for Exploration

Expansion Master Plan and Design
Marine Theater and Dolphin Exhibit
Feasibility Study
Mystic, Connecticut

National Aquarium in Baltimore

Marine Mammal Interpretive Exhibits
Amazon River Forest Exhibit
Baltimore, Maryland

National Aquarium in D.C.

Planning and Design of Aquarium
Washington, D.C.

National Mississippi River Museum and Aquarium

Mississippi River Discovery Center
Dubuque, Iowa

NOAA/National Marine Fisheries

Harbor Seal Exhibit
Woods Hole, Massachusetts

NOAA/National Marine Sanctuaries

Discovery Center for Hawaii's
Remote Coral Reefs
Hilo, Hawaii

Florida Keys Eco-Discovery Center
Key West, Florida

Graphic Style Guide
Silver Spring, Maryland

Hawaiian Islands Humpback Whale
Interpretive Center
Maui, Hawaii

New England Aquarium

Expansion Master Plan
West Wing Expansion
Coastal Rhythms Exhibit
Boston, Massachusetts

New England Sports Museum

Master Plan
Boston, Massachusetts

Oakland Zoo

California Trail
Oakland, California

Odiorne Point State Park

Seacoast Science Center
Rye, New Hampshire

Oklahoma City Zoo

Wayfinding Master Plan
Oklahoma City, Oklahoma

Osaka Aquarium

Planning and Design of the Aquarium
Osaka, Japan

Palm Beach Seaport Aquarium

Concept Plan
Riviera Beach, Florida

Paul Revere House

Centennial Exhibit
Boston, Massachusetts

River Heritage Museum

Schematic Design
Phase I Exhibits
Paducah, Kentucky

Rosamond Gifford Zoo at Burnet Park

Penguin Coast Exhibit
Syracuse, New York

Seattle Aquarium Society

Pacific Northwest Aquarium
Master Plan
Seattle, Washington

Sociedade Metropolitana de Desenvolvimento Madeira

Funchal Aquarium
Madeira Island, Portugal

The John G. Shedd Aquarium

Reef and Rotunda Renovation
Chicago, Illinois

South Carolina Aquarium

Planning and Design of the Aquarium
Coastal Rhythms Exhibit
Secrets of the Amazon
Charleston, South Carolina

Tennessee Aquarium

Planning and Design of the Aquarium
Chattanooga, Tennessee

Toledo Zoo

Aquarium Renovation Project
Toledo, Ohio

Turtle Back Zoo

Sea Lion Exhibit
West Orange, New Jersey

U.S. Fish & Wildlife Service

Assabet River Visitor Center
Sudbury, Massachusetts

Kettle Pond Visitor Center
Charlestown, Rhode Island

National Conservation Training Center
Shepherdstown, West Virginia

Pelican Island Visitor Center
Sebastian, Florida

Sachuest Point Visitor Center
Middleton, Rhode Island

Wertheim Visitor Center
Shirley, New York

U.S. Fish & Wildlife Service and U.S. Forest Service

Sewee Visitor Center
Awendaw, South Carolina

Wildlife Conservation Society

Congo Gorilla Forest at Bronx Zoo
Bronx, New York

Discovery Cove at New York Aquarium
Brooklyn, New York

Lyons/Zaremba Inc.

Information Page

GS-23F-0108L

Contract Period February 6, 2011 - February 5, 2016
Rosanne Gregory, Contract Administrator 978-549-4907

- 1a. **SIN 541-4C Exhibit Design and Implementation Services**
SIN 541-1000 Other Direct Costs
- 1b. (Pricing Sheet attached)
- 1c. (Resumes/Job Descriptions attached)
2. Maximum order: **\$1,000,000**
3. Minimum order: **\$100**
4. Geographic coverage (delivery area): Domestic
5. Point(s) of production (city, county, and state, or foreign country): Boston, MA
6. Discount from list prices or statement of net prices: discounts are inclusive
7. Quantity discounts: 1% for orders of \$250,000 to \$750,000 and 2% for orders above \$750,000.
8. Prompt Payment terms: 1%, net 30
- 9a. Notification whether Government purchase cards are accepted at or below the micro-purchase threshold. NO
- 9b. Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold. NO
10. Foreign items: Not Applicable
- 11a. Time of Delivery. To be negotiated at the task order level
- 11b. Expedited delivery: Items available for expedited delivery are noted in this price list.
- 11c. Overnight and 2-day delivery: Not Applicable
- 11d. Urgent Requirements: Not Applicable
12. F.O.B point(s): Destination
- 13a. Ordering address(es): 2 Faneuil Hall Marketplace, Boston, MA 02109
- 13b. Ordering Procedures: For supplies and services, the ordering procedures, information on blanket purchase agreements (BPA's), and a sample BPA can be found at the GSA/FSS schedule homepage (fss.gsa.gov/schedules).
14. Payment address(es): 2 Faneuil Hall Marketplace, Boston, MA 02109
15. Warranty provision: Not applicable
16. Export packing charges: Not applicable
17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro purchase level): Not applicable
18. Terms and conditions of rental, maintenance, and repair: Not applicable
19. Terms and conditions of installation: Not applicable
20. Terms and conditions of repair parts: Not applicable
- 20a. Terms and conditions for any other services: Not applicable
21. List of services and distribution points: Not applicable
22. List of participating dealers: Not applicable
23. Preventative maintenance- Not applicable
- 24a. Special attributes such as environmental attributes: Not applicable
- 24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details and be found: Not Applicable
25. Data Universal Number System (DUNS) number: 19-7142581
26. Notification regarding registration in Central Contract Registration (CCR) database: Registered, 04/10/2002

Lyons/Zaremba Inc.
Exhibit Planning + Design
GS-23F-0108L

541-4C Exhibit Design and Implementation Services		
<i>Labor Category</i>	<i>Per Unit</i>	<i>Gov't Rate</i>
Senior Principal	Hour	\$ 165.00
Junior Principal	Hour	\$ 150.00
Senior Designer	Hour	\$ 100.00
Junior Designer	Hour	\$ 85.00
Senior Graphic Designer	Hour	\$ 105.00
Junior Graphic Designer	Hour	\$ 55.00

541-1000 Other Direct Costs	
<i>In-House</i>	
Communications	\$ 4,659.11
Postage/Delivery	\$ 6,124.69
Printing/Reproduction	\$ 4,838.37
Photography	\$ 5,873.89
Consultants' Expenses	\$ 92,608.58
Supplies/Materials	\$ 2,269.00
Renderings	\$ 1,000.00
Typesetting/Composition	\$ 198.49
<i>Exhibit Production</i>	
Line Art	\$ 25,000.00
Cartography	\$ 25,000.00
Rights Fees/Photography	\$ 75,000.00
Rights Fees/Video & Sound	\$ 10,000.00
Digital File Production	\$ 40,000.00
Computer Animation/Graphics Fabricators	\$ 237,463.00
Model Making	\$ 32,400.00
<i>Sub-Contracting</i>	
Education Specialist/Writers	\$ 31,680.00
Lighting Designers	\$ 24,000.00
Life Support Specialists	\$ 340,041.00
Audio/Visual Consultants	\$ 137,500.00
Interactive Exhibit Cons. Visitor Circulation Experts	\$ 42,500.00
Economic Research Experts	\$ 25,000.00
Photo &Artifact Researchers	\$ 14,394.00
Graphic Designers	\$ 257,436.00
Architectural Planning & Cost Estimation	\$ 41,000.00