THE EVOLVING FLORIDA MUSEUM OF NATURAL HISTORY - PLANS FOR FUTURE PUBLIC EXHIBITS AND RESEARCH CENTER

- The Museum moves to Science Hall (later named Flint Hall) on the UF campus.
- The McGuire Center for Lepidoptera and Biodiversity, including the popular Butterfly Rainforest exhibit, is added to the Museum and opens to the public Aug. 14.
- Powell Hall, the Museum’s Education and Exhibition facility in the UF Cultural Plaza, is completed and opens to the public.
- The SmithGroup of Washington, D.C., completes a site master plan for a reunited Florida Museum building for the 21st century.
Museums can be paradoxical institutions. Central to their mission is the preservation in perpetuity of their collections. This means museum staff labor to minimize change, and ensure as little alteration as possible to objects under their care.

On the other hand, like the business sector, museums must constantly change to remain relevant to their evolving audiences. The life expectancy of a museum that fails to keep pace with emerging societal concerns, advancing technology, or learning innovation is predictably short. At the Florida Museum of Natural History, we strive to balance those parts of our institutional ecosystem dedicated to constancy and predictability, with those components committed to change and adaptation.

You will see on the ensuing pages that our institution’s balancing act between preservation and innovation has been occurring for more than 100 years, and we continue to find new ways to strike that balance. This year we were fortunate to hire two extraordinary faculty curators, Dr. Akito Kawahara in Lepidoptera and Dr. Michal Kowalewski, our first occupant of the newly endowed Jon & Beverly Thompson Chair in Invertebrate Paleontology. These hires simultaneously address our commitment to collections and innovative research. Another notable example is our NSF-funded iDigBio project, which positions the Florida Museum as the national hub of a network seeking to digitize the country’s biocollections.

On the public side of the Museum, we initiated a fundraising campaign to reinvent our Discovery Room as a permanent addition to Powell Hall. However, the biggest story of the year belonged to our largest reptile, *Titanoboa: Monster Snake*. A team of scientists, including faculty curator Dr. Jonathon Bloch, his students and colleagues discovered this spectacular fossil of the largest snake that ever lived in a Colombian coal mine. It was the subject of a Smithsonian Channel documentary film, many magazine and other news articles, and a Smithsonian traveling exhibition the Florida Museum will display in 2013. Get ready to be impressed!

Our year finished on a high note with completion of a site master plan by the SmithGroup architects of Washington, D.C. A glimpse of this vision for our reinvented, reunited Florida Museum for the 21st century is included in the following pages.

Finally, I am saddened to report that Dr. Arnold Grobman, second Director of the Museum from 1952 to 1959, passed away on July 8, 2012. His innovative leadership, combined with his passion for collections and research, placed the Florida Museum firmly on its current path to balanced success.

Sincerely,

Douglas S. Jones
The Florida Museum of Natural History houses nearly 40 million scientific specimens, placing it among the nation’s top five largest museums. While its main focus is Florida, the southeastern United States and the Caribbean, the Florida Museum's many research projects span the globe—including work in 29 countries and 18 states last year. Museum researchers brought in $3.05 million in new grants and contracts over the past year, which support collections, education, fieldwork and laboratory research activities.

Among many others, exciting new projects include research on the domestication of turkeys by the ancient Mayas, characterization of marine benthic communities in the Carolinas, digitization of the Herbarium's lichens and bryophytes, as well as collection improvement grants for vertebrate paleontology, invertebrate zoology and ichthyology. These projects support and educate students from the University of Florida and around the world, as part of the Museum’s commitment to train the next generation of scientists.

The Museum is also home to two large collaborative grants. The goal of the NSF-funded Panama PIRE project is to advance knowledge of the extinct faunas and florals of the ancient Neotropics based on the new fossil discoveries along the Panama Canal. This collaborative grant promotes discovery and advances knowledge in paleontology, geology and biology while developing global competency among scientists and students, in part through international research experiences. The other collaborative grant is the NSF-funded iDigBio project. Its mission is to develop a national infrastructure to support a permanent database of digitized information from all biological collections in the U.S. This database will lead to new research discoveries, promote a better understanding and appreciation of biodiversity through improved education and outreach, and facilitate better environmental and economic policies.

Both projects bring hundreds of scientists from around the globe to campus for workshops, meetings and other research activities, and bolster UF’s reputation as an international leader in biodiversity research.
ANTHROPOLOGY AND ARCHAEOLOGY

Caribbean Archaeology
As part of a long-term interest in the prehistoric peoples of the Turks & Caicos Islands, William Keegan completed the analysis of archaeological materials from sites on Middle Caicos Island.

Environmental Archaeology
To evaluate the use of sustainable hunting practices by the ancient Maya, Katherine Emery and her students analyzed bone and shell artifacts from the Pacbitun site, Belize, and animal remains from the Royal Court at the Aguateca site, Guatemala.

Florida Archaeology
Neill Wallis and Ann Cordell investigated exchange and mobility patterns revealed in pottery from Woodland period sites in Florida and Georgia. William Marquardt and Karen Walker undertook excavations at Southern Ridge, an Archaic period habitation site on Useppa Island in Southwest Florida.

Latin American Archaeology
Susan Milbrath’s research focused on Postclassic Maya effigy censers, including those recently donated to the Museum from the Cerros site in Belize, and the Maya codices as they relate to the Maya calendar predictions for 2012.

Spanish Colonial Archaeology
Using new archaeological evidence, just-discovered historical documents and unique artifacts from the Museum’s Spanish Colonial collection, Kathleen Deagan, Gifford Waters, Darcie MacMahon and other staff began development of First Colony: Our Spanish Origins. This exhibit will highlight St. Augustine, the first successful European colony in America, and the ways that science helps reveal and interpret history.

NEUROLOGY

Florida Program for Shark Research
The program continued monitoring endangered sawfish species through active tracking projects and maintenance of the International Sawfish Encounter Database. The International Union for Conservation of Nature presented sawfish encounter database information to participants of the 2012 Red List workshop in London as a baseline for future research. Updates to the Museum’s International Shark Attack File, established in 1958, provided information for ongoing research on shark-human interactions.

Genetic Resources Repository
The Museum added 6,678 DNA and tissue samples of plants, vertebrates, butterflies and marine invertebrates to its Genetic Resources Repository. The Museum shares these important frozen materials with researchers around the world.

Herbarium
Nico Cellinese’s research focused on patterns of evolution and diversity in Campanulaceae, to determine the history of endemic lineages on continental islands. Norris Williams and Mark Whitten continued their work on the molecular systematics of Orchidaceae and barcoding bryophytes and lichens. Kent Perkins oversaw the digitization and imaging of type specimens for the Global Plants Initiative and for the JStor Plant Science website, plants.jstor.org, a worldwide online archive providing public access to a wide range of content vital to plant science research.

Herpetology
Max Nickerson undertook comparative population studies of hellbender salamanders in pristine and disturbed habitats to determine the impacts of environmental changes on these threatened amphibians. Kenney Krysko’s research on invasive amphibians and reptiles focused on the growing population of Burmese pythons in the Everglades.

Ichthyology
Larry Page and three graduate students traveled to Thailand in December to study Southeast Asian freshwater fish diversity, with an emphasis on the Cypriniformes (carps and minnows). The two-month expedition added many valuable specimens to the museum’s fish collection, used for ongoing research by division staff and students.
Informatics
Collaborating with the UF College of Engineering, Reed Beaman developed cyberinfrastructure, including virtual computing resources, to support digitization of collections. Nico Cellinese continued to develop informatics websites, including TOLKIN, the Tree of Life Knowledge and Information Network, and BiSciCol Tracker, an NSF-funded project to tag and track biodiversity in scientific collections.

Invertebrate Zoology
Gustav Paulay’s global project to genetically bar code marine invertebrates featured species from Florida, Moorea Island and the Hawaiian Islands. Fred Thompson completed the first modern annotated checklist and bibliography of the land and freshwater snails of Mexico and Central America.

The Katharine Ordway Chair in Ecosystem Conservation
Scott Robinson and his students focused on understanding how the details of bird behavior, such as “decision rules” governing dispersal, social behavior, incubation rhythms and mating systems, make birds more or less vulnerable to human-generated changes in the environment.

Mammalogy
Using DNA analysis, David Reed’s lab studied the effects of climate change on gene flow in bats on Caribbean islands, and developed distribution models for human-hosted lice species to evaluate the colonization of the Americas by ancient humans.

Molecular Systematics and Evolutionary Genetics Laboratory
Pam Soltis and colleagues published the genome of Amborella, a shrub found only on the Gondwanan island of New Caledonia. Lab employees, including Matt Gitzendanner, also studied other plant diversity in New Caledonia and conservation genetics of rare Florida plant species.

Ornithology
Along with students and colleagues, David Steadman investigated ancient and modern ecosystems of the West Indies, focusing on the Pleistocene (ice age) versus the Holocene (more modern) dynamics of terrestrial plant and animal communities in the Bahamas.

PALEONTOLOGY
Invertebrate Paleontology
Michal Kowalewski, formerly of Virginia Tech, joined the Florida Museum as the new Jon L. and Beverly A. Thompson Chair of Invertebrate Paleontology. Through the efforts of Roger Portell, other staff, students and post-docs, the Invertebrate Paleontology program collected fossils in Curacao, Cuba, Florida and Panama.

Paleobotany and Palynology
Steven Manchester analyzed the oldest-known grapes and discovered the oldest raisin, from the Late Cretaceous Deccan Intertrappean beds of India.

Vertebrate Paleontology
At the Cerrejon coal mine in Colombia, Jonathan Bloch and colleagues discovered more fossils of the first vertebrates and plants from a neotropical rain forest. With eight other institutions and the UF College of Engineering, Bruce MacFadden is directing the NSF-funded Partnership for International Research and Education to collect and analyze fossils and other geological specimens excavated during expansion of the Panama Canal.
OUR IMPACT
RESEARCH LOCATIONS:


Other States -- Alabama, Arkansas, California, Georgia, Hawaii, Louisiana, Mississippi, Montana, Nebraska, North Carolina, North Dakota, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Washington, Wyoming.

International -- Australia, Bahamas, Bolivia, Brazil, Colombia, Cuba, Curacao, Ecuador, French Polynesia, Germany, Greece, Guyana, Honduras, La Reunion, Mexico, New Caledonia, Nigeria, Pakistan, Panama, Peru, Philippines, Portugal, Seychelles, Senegal, Thailand, United Kingdom, Venezuela.

TEACHING:

ALS 6046  Grant Writing, 2 credits
ANG 4905  Individual Research in Anthropology, 27 credits
ANG 6122C  Archaeological Ceramics, 3 credits
ANG 6224/ANT 4930 Honors Painted Books of Ancient Mexico, 3 credits
ANG 6905 Environmental Archaeology Journal Club, 3 credits
ANG 6905 Individual Studies, 9 credits
ANG 6915 Research Projects in Social, Cultural, and Applied Anthropology, 6 credits
ANG 6971 Research for Master's Thesis, 8 credits
ANG 7979 Advanced Research, 18 credits
ANG 7980 Advanced Research, 27 credits
ANG 7980 Advanced Research, 33 credits
ARCH 6300 Museum Ethics, 3 credits
ANT 4907 Independent Studies, 6, credits
ANT 4930 Florida Archaeology, 3 credits
BOT 6935 Biological Nomenclature, 2 credits
BOT 6935/0895 Phylogenetic Systematics Seminar, 1 credit
BOT 6935/0895 Paleobotanical Methods, 2 credits
ENY 4905 Individual Studies in Entomology, 16 credits
ENY 4905/6905 Biology of Lepidoptera, 3 credits
ENY 6905 Individual Studies in Entomology, 4 credits
ENY 6934 Biology of Lepidoptera, 1 credit
GLY 6971 Advanced Research, 9 credits
GLY 7980 Advanced Research, 20 credits
PCG 6791 Research for Master's Thesis, 13 credits
VME 7979 Advanced Research, 3 credits
VME 6915 Research for Master's Thesis, 16 credits
ZOO 4927 Methods of Phylogenetic Inference, 4 credits
ZOO 6927/GLY 4926 Island Biogeography and Paleontology, 3 credits
ZOO 6927/GLY 6932 PIRE Seminar: Exhibits Development, 3 credits
ZOO 6927/GLY 6932 PIRE Seminar: Student Research and Journal Club, 1 credit
ZOO 6971 Research for Master's Thesis, 16 credits
ZOO 7979 Advanced Research, 28 credits
ZOO 432 Marine Invertebrate Zoology, 9 credits
(University of Washington)

Graduate Committees Served: 127
Graduate Committees Chaired: 82
Independent Studies: 54
Collection Loans: 309 totaling 20,480 artifacts/specimens/ lots

SPECIAL ACHIEVEMENTS, FACULTY AND STAFF:

Jonathan Bloch was awarded a University of Florida Research Foundation Professorship in recognition of his distinguished record of research and scholarship.

Nico Cellinese was awarded the University of Florida 2011 Excellence Award for Assistant Professors.

Jaret Daniels received the University of Florida 2011 Division 4 Superior Accomplishment Award, and was one of 29 international conservationists nominated for the 2012 Indianapolis Prize.

Bruce MacFadden was awarded the 2012 Florida Academy of Sciences Medal.

William Marquardt received the Senator Bob Williams Award given by the Florida Secretary of State to a public servant who has changed the course of historic preservation in Florida.

Jacqueline Miller was elected an Honorary Life Member of the Lepidopterists' Society.

Larry Page was elected President of the Natural Science Collections Alliance.

Fred Thompson received the Life Time Achievement Award from the American Benthological Society.

Neill Wallis received the C.B. Moore Award for Excellence in Southeastern Archaeology from the Southeastern Archaeological Conference.

Norris Williams had a new species of orchid bee from the Amazon Basin of Ecuador and Peru named after him, Euglossa williamsi.
Changing Exhibits Communicate and Inspire

Temporary exhibits help the Museum communicate cutting-edge science in accessible ways. Like our permanent exhibits, all aim to engage audiences and inspire visitors.

In the large Changing Gallery, Wild Music: Sounds and Songs of Life explored the biological origins of music through interactivity and exceptional sound experiences, expanding visitors’ understanding of what makes music. Cruisin' the Fossil Freeway brought dinosaurs to Gainesville via a prehistoric road trip through the American Southwest. Specimens from the Museum’s collections, paired with the fossil-inspired artwork of celebrated artist Ray Troll and a working Paleo Prep Lab, introduced visitors to the ways scientists use fossils to answer questions about evolution, extinction and early life on Earth.

Five additional temporary exhibits this year highlighted current research. In the Museum’s Library of Life series, two new exhibits showcased the Ichthyology (Fishes) and Mammals programs. The displays explored research on endangered sawfish and other large fishes; and the study of human head lice, their evolution and what this information reveals about human migration and evolution.

In the Central Gallery, a new rotating photographic exhibit features objects from the collections as viewed through the lens of a high-resolution imaging system used to answer new research questions. Two West Gallery exhibits, Birds of the World and An Early Maya City by the Sea, introduced new research from the Museum’s Ornithology and Mesoamerican Archaeology collections.

New Exhibits Underscore Conservation

The Museum opened two new long-term exhibitions this year with a goal to inspire conservation efforts.

Our Energy Future is a hands-on interactive exhibit that introduces critical issues of energy production and consumption and provides tips and tools for conserving energy at home. It includes information about the Museum’s rooftop solar array, how much energy Floridians use for what purpose and how we can make a difference in our future. The Monarch Passage exhibit transforms a Museum hallway into a multimedia experience of monarch butterflies and their winter migration to Mexico – strong ambassadors for the role we can play in species conservation and habitat preservation.

Focus on Energy

The Museum continues to improve on its energy footprint, replacing much of the public area lighting with efficient LED fixtures with funding from a special University of Florida grant.
**Traveling Exhibits Program – Museum on the Road!**

In a transition year, one exhibit retired, another toured farther, and a third prepared for launch. **TUSKS! Ice Age Mammoths and Mastodons** traveled to its final venue, the Macon Museum of Arts and Science in Georgia, before retiring from service after seven great years on the road. Now in its fifth year of travel, **Megalodon: Largest Shark that Ever Lived** continued its successful tour, showing at The Wildlife Experience in Denver, Gulf Coast Exploreum in Mobile, Ala., and Adventure Aquarium in Camden, N.J. Now at the Museum but ready to hit the road in 2014, **Dugout Canoes: Paddling through the Americas**, is being prepped to travel and promises to reach a new set of national audiences.

**Awards**

The Museum’s newest traveling exhibit, **Dugout Canoes: Paddling through the Americas**, won the highest Award of Excellence from the Southeastern Museums Conference in its peer-juried recognition of the region’s best new exhibits.

**Looking Ahead**

What will the future hold for the Museum’s exhibition program? Both Changing Exhibits and Traveling Exhibits are holding their own in a fiscally challenging environment. Sponsorships and grants have allowed the Museum to envision and launch new projects. Among these exciting visions—a permanent **Discovery Room** to introduce children ages 3-10 and their families to natural history inquiry, a traveling exhibit titled **First Colony: Our Spanish Origins** to highlight the Museum’s decades-long archaeological research of Spanish colonial sites, and a renovation of the Central Gallery to better orient Museum visitors and provide an exciting space for community events and interactions.
For more than 100 years, the Florida Museum has maintained a tradition of excellence in understanding, preserving and interpreting biological diversity and cultural heritage to ensure their survival for future generations. To continue this tradition as a successful 21st century museum, the Florida Museum must work to remain connected and relevant. Museum donors provided generous gifts that will have an immediate impact and make a positive difference in the Florida Museum’s future. Each “Legacy” gift that establishes an endowment, each private collection and each cash gift ensure that the Florida Museum is able to inspire people to value the biological richness and cultural heritage of our diverse world and make a positive difference in its future.

For years the Florida Museum has hosted an extremely popular seasonal Discovery Room, engaging more than one-third of visitors in hands-on science education. This year the Museum, along with the Museum Associates Board, launched a three-year fund-raising campaign, Passport to Discovery, with the goal of developing an enhanced, permanent Discovery Room that fosters critical thinking, collaboration and creativity. In support of the campaign, the Museum Associates Board hosted three events: Passport to Discovery: A Morning at the Museum; Passport to Discovery: An Afternoon at the Museum and the signature gala, Passport to Discovery: A Night at the Museum. In the first year of the campaign, the Museum raised more than $400,000 and is well on its way to reaching the $1 million goal. Leadership gifts from Jon and Beverly Thompson and BJ and Eve Wilder, as well as a sold-out gala, helped affirm the Museum’s belief that a space with year-round, hands-on science education is a resource the community wants and needs. The newly designed Discovery Room will create a lasting impact on children and the adults who support their exploration as well as lifelong learners. The Museum plans to open the new exhibit by 2015, but changes are evident in the current Discovery Room as new ideas are tested.

A Florida Museum Membership Survey was launched in March and completed in May. Thank you to all members who participated in the survey. This allows the Museum to better tailor membership benefits and programming for members, creating lasting value. Jon and Beverly Thompson continued their generous support of the Museum with a gift to help renovate Powell Hall’s Central Gallery into an area that will inspire and challenge Museum visitors with the wonder of the natural world and prepare them for an exciting journey as they venture farther into the Museum.

The Museum is fortunate to have friends and supporters who give so freely of their time, talent and treasure. At a time when state budgets are decreasing and demand for Museum services is increasing, private support ensures the Florida Museum’s continued success. For more information about opportunities to support the Florida Museum, please contact the Museum Development Office, 352-273-2086.
Earth Day BioBlitz
More than 700 visitors participated in the Museum’s Earth Day event, which included a BioBlitz in the adjacent UF Natural Area Teaching Laboratory.

Educator Open House
In collaboration with the School Board of Alachua County and more than 20 community organizations, the Museum hosted an annual “Educator Open House” to provide information on the educational resources and learning experiences available throughout North Central Florida.

Outreach – Museum on the Move
The educational power of the Museum moved directly into classrooms when the “Inquiry Box” program was revitalized in January 2012. Staff and docents utilized items from Museum collections to engage 1,594 students in inquiry-based activities and discussions.

Scout Programs Mentor Future Scientists
An important part of Museum programs is mentoring future citizens and scientists. In April, 22 Girl Scouts and their chaperones from throughout the Gateway Council explored paleontology during an evening of hands-on activities. The scouts excavated a miniature “fossil dig,” assembled dinosaur fossil replicas and talked with female Museum paleontologists.

Title 1 Assistance Program
To provide under-served communities the opportunity to visit the Museum, the Florida Museum Associates Board funded bus transportation and admission for 434 fourth-graders from nine Alachua County Title 1 schools to participate in Cruisin’ the Fossil Freeway guided programs. Students used science process skills to examine fossils and artwork that illustrated adaptations, extinction and prehistoric environments. Participating teachers attended a workshop to learn ways to connect the exhibit with their classroom curriculum.

Other Public Programs
Science Cafés provide opportunities for discussions about science topics in an informal venue like a restaurant, offering the speaker and audience members a chance to have a conversation not possible during a traditional lecture. The inaugural café last fall at the Museum attracted more than 125 attendees and more than 250 participants attended the four spring cafés held in local restaurants. The Cruisin’ the Fossil Freeway exhibit provided opportunities to showcase Museum paleontologists and their work through a Sunday lecture series. The “Ask a Paleontologist” series gave the public an opportunity to bring fossils to be identified. The Museum also hosted the 13th annual Trashformations juried art competition presented by the Alachua County Board of County Commissioners and Alachua County Office of Waste Alternatives.

Volunteers
Last summer, the Museum added two positions for Junior Volunteers, who are 12-17 years old. Veteran JVs gained hands-on experience in the Cruisin’ the Fossil Freeway exhibit Paleo Prep Lab, learning to clean and curate fossils. A few experienced JVs worked in Assistant Curator of Lepidoptera Akito Kawahara’s lab. These students learned to run polymerase chain reactions used for DNA studies.
**Discovery Room**

As the Museum continues to raise funds for a new, permanent Discovery Room, many significant changes have been made to the existing facility. These changes include adding comfortable seating, high-quality books that appeal to readers of all ages, display cases with a changing roster of animal mounts, a coral reef aquarium and myriad resources that encourage active, hands-on exploration such as a wind tunnel, discovery bins and nature-based puzzles and interactives.

**Explore Research**

Explore Research is a collaboration among UF’s Florida Museum of Natural History, Office of Research and Department of Agricultural Education and Communication. Through this partnership, UF students produced 46 videos about UF research. In addition to playing in the Museum exhibit, these videos air on WUFT-TV, YouTube and TeacherTube, with more than 120,000 online views over a three-month period.

**Nature Viewing App**

In 2012, the Museum released the Nature Viewing Along the Great Florida Birding and Wildlife Trail app, which provides information to help users identify birds, butterflies and flowering plants and also includes a list of nearly 500 sites along the 2,000-mile trail that extends from the Panhandle to the Keys. Available for the Android platform and iOS, Apple’s phone and tablet operating system, the app is downloaded about 14 times per day. The project was funded with grants of $40,000 from the Florida Wildflower Foundation and $9,500 from the Florida Museum Associates Board.

**Water: Discovering & Sharing Solutions**

The Museum collaborated with the University of Florida President’s Office and UF IFAS to produce an exhibit celebrating the 150th anniversary of the Morrill Act of 1862, which enabled the creation of land grant universities like UF. The Water: Discovering & Sharing Solutions exhibit was featured in Washington, D.C., during the Smithsonian Folklife Festival in June, which attracts more than 1 million attendees. Through interactive displays, live animals and water tables, the exhibit explains how UF is solving global challenges involving water, invasive species and food production.

Opposite page: A young visitor enjoys the hands-on wind tunnel activity in the Discovery Room. The Museum is raising funds to build a new, permanent Discovery Room.

Left: Visitors enjoy the Object Gallery in Dickinson Hall during the late 1980s.
The McGuire Center for Lepidoptera and Biodiversity was able to add significantly to its collections, staff and other resources during 2011-12, increasing its stature as the leading educational and collections-based research institution for Lepidoptera biodiversity studies.

The total Lepidoptera holdings grew to about 10.5 million specimens through donations of more than 40 private collections and extensive collecting by the staff in many areas of the world. One of the most significant additions came in the Kirby L. Wolf world-class collection of the giant silk moth family Saturniidae, comprised of more than 3,800 specimens of U.S. and foreign species of this group of large, colorful moths. Related to this collection gift, Richard Peigler donated silk textiles from a number of countries, preserved cocoons of many species of silk moths and other materials such as cocoon hand and ankle rattles, for a possible future exhibit on the development of the silk industry in China, Japan, France, the U.S. and other countries through the centuries. Other especially notable collection additions came from John M. Nelson (more than 33,000 U.S. Lepidoptera), Bradley A. Stirn (more than 11,000 Lepidoptera, including many exceptionally rare foreign butterflies), and Luka Kassarov (nearly 10,000 rare and extinct Palearctic and Neotropical Lepidoptera).

Research highlights include Assistant Professor Jaret Daniels’ surveys to identify living populations of two federally endangered butterflies: the Miami blue and the Schaus’ swallowtail. Curator Jacqueline Miller surveyed Lepidoptera on North Andros Island, Bahamas, and in the Pico Bonito National Forest, Honduras. Associate Curator Keith Willmott investigated species richness gradients in tropical Andean butterflies from Colombia to Bolivia.

Assistant Curator of Lepidoptera Akito Kawahara’s projects ranged from a study of the evolution of case-building by Hawaiian moth larvae, the evolution of chemical defenses in Lepidoptera and ultrasonic stridulation in hawk moths, to the evolution of major Lepidoptera groups using next-generation genome sequencing and functional genomics, specifically studying the green-island forming leaf miners. Assistant Research Scientist Delano Lewis is researching the moth and butterfly fauna of Jamaica, the genetics and conservation ecology of the endemic giant Homerus swallowtail (largest swallowtail butterfly in the Americas), the important role of pollination of Florida native plants by native bees, wasps, Lepidoptera and other insects, and the role of roadside vegetation management practices for enhancing habitat and floral resources for insect pollinators.

Kawahara and Lewis are also expanding the McGuire Center’s student training and mentoring programs, contributing their new strengths to the preparation of the next generation of lepidopterists.
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PROFESSIONAL STAFF
July 1, 2011 – June 30, 2012

DIRECTOR’S OFFICE

Director – Douglas S. Jones, Ph.D.
Associate Director – Beverly S. Sensbach
Assistant to the Director – Griffin E. Sheehy
Facilities Managers – Kurt Auffenberg
George D. Hecht

Budget and Human Resources
Assistant Director – A. Darlene Novak
Office Manager – Barbara L. Hackett
PCards/Purchasing/Travel – Katie M. Suggs
Shuronna C. Wilson, Ashley Gazich
Personnel/Payroll – Christian B. Pickles
Arja A. Rompotti-Horn/April Welcome

Center for Informal Science Education
Program Director – Betty A. Dunckel, Ph.D.
Project Director – Shari A. Ellis, Ph.D.
Project Director – Dale Johnson

Development / Membership
Development Director – Joshua D. McCoy
Assistant Director of Development and Membership – Leslie L. Ladendorf
Development Assistant – Brittany Snipes

Graphics
Graphic Design Coordinator – Elecia J. Crumpton

Marketing and Public Relations
Assistant Director – Paul E. Ramey, APR
Coordinator – Leann Bright
Photographer – Jeffrey L. Gage

Museum Technology
IT Director – William G. Paine
Systems Administrator Lead – Warren Brown
Systems Administrator – Andrew Lievertz
Webmaster – Sarah E. Fazenbaker
Tech Support Lead – Timothy J. Tailey
Tech Support – Richard Swilley
IT Expert – Taylor Wilson

DEPARTMENT OF NATURAL HISTORY

Invertebrate Paleontology
Curators – Douglas S. Jones, Ph.D.
Michał Kowalewski, Ph.D.
Collection Manager – Roger W. Portell
Laboratory Technician – Brian A. Kittle
Museum Operations Specialist – Sean W. Roberts

Katharine Ordway Chair of Ecosystem Conservation
Eminent Scholar – Scott K. Robinson, Ph.D.

Latin American Art and Archaeology
Curator – Susan Milbrath, Ph.D.

Mammalogy
Associate Curator – David L. Reed, Ph.D.
Collection Manager – Candace L. McCaffery

McGuire Center for Lepidoptera and Biodiversity
Center Director – Thomas C. Emmel, Ph.D.
Curator – Jacqueline Y. Miller, Ph.D.
Associate Curator – Keith R. Willmott, Ph.D.
Assistant Curator – Akito Kawahara, Ph.D.
Assistant Professor – Jaret C. Daniels, Ph.D.
Visiting Assistant Scientist – Delano Lewis, Ph.D.
Post-Doctoral Research Associate – Jonathan Colburn, Ph.D.
Construction Coordinator – James B. Schlachta
Program Assistant – Christine M. Eliazar

Molecular Systematics and Evolutionary Genetics
Distinguished Professor – Pamela S. Soltis, Ph.D.
Associate Scientisit – Matthew A. Gitzendanner, Ph.D.
Laboratory Manager – Evgeny Mavrodiev, Ph.D.
Post-Doctoral Research Associate – Brad R. Ruhfel, Ph.D.

North Florida Archaeology
Assistant Curator – Neill J. Wallis, Ph.D.
Collection Managers – Donna L. Ruhl, Ann S. Cordell

Herbarium
Curator and Keeper – Norris H. Williams, Ph.D.
Assistant Curator – Nicoletta Cellinese, Ph.D.
Collection Manager – Kent D. Perkins
Sr. Biologist – W. Mark Whitten, Ph.D.
Program Assistant – Gertrude R. Lindler

Herpetology
Curator – Max A. Nickerson, Ph.D.
Collection Manager – Kenneth L. Krysko, Ph.D.

Ichthyology
Curator – Lawrence M. Page, Ph.D.
Collection Manager – Robert H. Robins

Informatics
Associate Curator – Reed Beaman, Ph.D.
Assistant Curator – Nicoletta Cellinese, Ph.D.
IT Experts – Christopher Dell
Katarzyna Rachwal, Gregory Traub
Post-Doctoral Research Associates –
Russell L. Watkins, Ph.D., Lukasz Ziemba, Ph.D.

Integrated Digitized Biocollections (iDigBio) Project
Program Director – Lawrence M. Page, Ph.D.
Project Manager – Jason Grabon
Project Assistant – Cathleen L. Bester
IT Expert – Kevin Love

Caribbean Archaeology
Curator – William F. Keegan, Ph.D.

Environmental Archaeology
Associate Curator – Katherine F. Emery, Ph.D.
Collection Manager – Ivy R. Quitmyer

Florida Program for Shark Research
Director, and Curator, International Shark Attack File –
George H. Burgess
Post-Doctoral Research Associate –
Yannis Papastamatiou, Ph.D.

Associate Director and Chair – David W. Steadman, Ph.D.
Assistant to Chair & Anthropology Registrar –
Elise V. LeCompte
Program Assistant – Pamela W. Dennis

Center for Informal Science Education
Program Director – Betty A. Dunckel, Ph.D.
Project Director – Shari A. Ellis, Ph.D.
Project Director – Dale Johnson

Development / Membership
Development Director – Joshua D. McCoy
Assistant Director of Development and Membership – Leslie L. Ladendorf
Development Assistant – Brittany Snipes

Graphics
Graphic Design Coordinator – Elecia J. Crumpton

Marketing and Public Relations
Assistant Director – Paul E. Ramey, APR
Coordinator – Leann Bright
Photographer – Jeffrey L. Gage

Museum Technology
IT Director – William G. Paine
Systems Administrator Lead – Warren Brown
Systems Administrator – Andrew Lievertz
Webmaster – Sarah E. Fazenbaker
Tech Support Lead – Timothy J. Tailey
Tech Support – Richard Swilley
IT Expert – Taylor Wilson

Invertebrate Paleontology
Curators – Douglas S. Jones, Ph.D.
Michał Kowalewski, Ph.D.
Collection Manager – Roger W. Portell
Laboratory Technician – Brian A. Kittle
Museum Operations Specialist – Sean W. Roberts

Katharine Ordway Chair of Ecosystem Conservation
Eminent Scholar – Scott K. Robinson, Ph.D.

Latin American Art and Archaeology
Curator – Susan Milbrath, Ph.D.

Mammalogy
Associate Curator – David L. Reed, Ph.D.
Collection Manager – Candace L. McCaffery

McGuire Center for Lepidoptera and Biodiversity
Center Director – Thomas C. Emmel, Ph.D.
Curator – Jacqueline Y. Miller, Ph.D.
Associate Curator – Keith R. Willmott, Ph.D.
Assistant Curator – Akito Kawahara, Ph.D.
Assistant Professor – Jaret C. Daniels, Ph.D.
Visiting Assistant Scientist – Delano Lewis, Ph.D.
Post-Doctoral Research Associate –
Jonathan Colburn, Ph.D.
Construction Coordinator – James B. Schlachta
Program Assistant – Christine M. Eliazar

Molecular Systematics and Evolutionary Genetics
Distinguished Professor – Pamela S. Soltis, Ph.D.
Associate Scientist – Matthew A. Gitzendanner, Ph.D.
Laboratory Manager – Evgeny Mavrodiev, Ph.D.
Post-Doctoral Research Associate –
Brad R. Ruhfel, Ph.D.

North Florida Archaeology
Assistant Curator – Neill J. Wallis, Ph.D.
Collection Managers – Donna L. Ruhl, Ann S. Cordell

Herbarium
Curator and Keeper – Norris H. Williams, Ph.D.
Assistant Curator – Nicoletta Cellinese, Ph.D.
Collection Manager – Kent D. Perkins
Sr. Biologist – W. Mark Whitten, Ph.D.
Program Assistant – Gertrude R. Lindler

Herpetology
Curator – Max A. Nickerson, Ph.D.
Collection Manager – Kenneth L. Krysko, Ph.D.

Ichthyology
Curator – Lawrence M. Page, Ph.D.
Collection Manager – Robert H. Robins

Informatics
Associate Curator – Reed Beaman, Ph.D.
Assistant Curator – Nicoletta Cellinese, Ph.D.
IT Experts – Christopher Dell
Katarzyna Rachwal, Gregory Traub
Post-Doctoral Research Associates –
Russell L. Watkins, Ph.D., Lukasz Ziemba, Ph.D.

Integrated Digitized Biocollections (iDigBio) Project
Program Director – Lawrence M. Page, Ph.D.
Project Manager – Jason Grabon
Project Assistant – Cathleen L. Bester
IT Expert – Kevin Love

Caribbean Archaeology
Curator – William F. Keegan, Ph.D.

Environmental Archaeology
Associate Curator – Katherine F. Emery, Ph.D.
Collection Manager – Ivy R. Quitmyer

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McGuire Center for Lepidoptera and Biodiversity
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North Florida Archaeology
Assistant Curator – Neill J. Wallis, Ph.D.
Collection Managers – Donna L. Ruhl, Ann S. Cordell
Left: The Museum acquired this truck in the mid-1920s to pickup donations and conduct field work. Director T. Van Hyning wrote in his 1924-26 biennial report, “Our new auto van is another source of much efficiency and economy... It is such that our collectors can sleep in it while on extended trips after birds, mammals, etc. for habitat group work.”

EXHIBITS AND PUBLIC PROGRAMS

Assistant Director – Jaret C. Daniels, Ph.D.

Business Office
Office Manager – Charlene O. Smith
Program Assistant – Katherine K. Gerard
Fiscal Assistant – G. Colin Martin
Special Events Coordinator – Amber Tison
Store Manager – Stacey D. Crandall

Butterfly Rainforest
Vivarium Assistant Manager – Jeffrey L. Hansen
Living Exhibits Specialist – Michael R. Boulware

Emeritus Faculty
Associate Director Emeritus – Graig D. Shaak, Ph.D.
Associate Scientist Emeritus – L. Richard Franz, Jr.
Curator Emerita – Elizabeth S. Wing, Ph.D., NAS
Curators Emeriti – Carter R. Gilbert, Ph.D., 
F. Wayne King, Ph.D., Jerald T. Milanich, Ph.D.
Charles A. Woods, Ph.D.
Distinguished Research Curator Emerita –
Kathleen A. Deagan, Ph.D.
Distinguished Research Curator Emeritus –
S. David Webb, Ph.D.

Security and Fabrication
Operations Coordinator – Kurt Auffenberg
Artisan – Ronald A. Chesser
Carpenters/Cabinet makers – J. Patrick Bennett
Jeffrey Huber
Security Guards – Jason A. DeBottis
John H. McIntosh, Harvey E. Yawn

Emeritus Faculty
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Charles A. Woods, Ph.D.
Distinguished Research Curator Emerita –
Kathleen A. Deagan, Ph.D.
Distinguished Research Curator Emeritus –
S. David Webb, Ph.D.

Ornithology
Curator – David W. Steadman, Ph.D.
Collection Managers – Andrew W. Kratter, Ph.D.
Thomas A. Webber, Ph.D.

Paleobotany and Palynology
Curator – Steven R. Manchester, Ph.D.
Collection Manager – Hongshan Wang, Ph.D.
Biological Scientist – Terry A. Lott

Spanish Colonial Archaeology
Distinguished Research Curator Emerita –
Kathleen A. Deagan, Ph.D.
Collection Manager – Gifford J. Waters, Ph.D.

South Florida Archaeology and Ethnography
Curator – William H. Marquardt, Ph.D.
Assistant Scientist & Collection Manager –
Karen J. Walker, Ph.D.
Collection Manager – Ann S. Cordell

Vertebrate Paleontology
Curator – Bruce J. MacFadden, Ph.D.
Associate Curator – Jonathan I. Bloch, Ph.D.
Collection Manager – Richard C. Hulbert, Ph.D.
Sr. Biologist – Jason R. Bourque
Biological Scientist – Arthur R. Poyer
Post-Doctoral Research Associate – Aaron Wood, Ph.D.
The Florida Museum of Natural History inspires people to value the biological richness and cultural heritage of our diverse world and make a positive difference in its future.
Annual Report 2011-2012

**Revenue**

*Total* $18.7 million*

- **Earned Income**
  - $1.6 million
  - 9%

- **Contracts & Grants**
  - $5.5 million
  - 29%

- **Gifts**
  - $2.7 million
  - 14%

- **Investments**
  - -$0.4 million
  - -2%

- **State Allocations**
  - $9.3 million
  - 50%

*Includes $1.2 million in multi-year grant funds and gifts to endowments*

**Expenditures**

*Total* $17.5 million

- **Collections & Research**
  - $10.8 million
  - 62%

- **Operations**
  - $3.8 million
  - 22%

- **Exhibits & Public Programs**
  - $2.9 million
  - 16%

- **State Allocations**
  - $9.3 million
  - 50%
2011-2012 HONOR ROLL

$1 million or more
Anonymous
I.S.K. & Sara Reeves

$100,000 or more
Barbara Douglas
B.J. & Eve Wilder Family Foundation, Inc.
Jack McCombs
John Nelson, Jr.
Vinetta Swisher
Jon & Beverly Thompson
John Spencer & Barbara Ann Waldrop
Joe & Eve Wilder

$50,000 or more
Chuck Hageman
Ronald Leuschner

$25,000 or more
Anonymous
AT&T The Real Yellow Pages
Sandy Allen
Luka Kassarov
Harry & Sarah Lee
Bradley & Rebecca Stirn

$10,000 or more
Anonymous
Charles H. Denny III Charitable Trust
Gladys Cofrin & Daniel Logan
Community Foundation of North Central FL.
Charles & Elizabeth Covell
Charles & Wanda Denny
Thomas Emmel
Francis & Miranda Childress Foundation, Inc.
Ruth Highbarger (d)
Bruce Means
St. Augustine Foundation
Michael & Margaret Seidel
Toomey Foundation for the Natural Sciences
Jo Wiggins
Kirby Wolfe

$5,000 - $9,999
Anonymous
Chris & Gayle Bundschu

$2,500 - $4,999
Anonymous
Jim & Mary Brandenburg
CBS, My11, GTN
David & Jacki Challoner
Cox Communications, Inc.
Paul Doughty & Polly French-Doughty
Entercom – KTK/SKY
Irving Finkelstein
The Gainesville Sun
Stan Given & Teresa Dolan
Sam & Deborah Goforth
Jamie Grooms & Lisa Wasshausen
Richard Hulbert, Jr.
Jarvis Christian College
Pamphalon Foundation, Inc.
David Parkinson
Richard Peigler
Barbara Rotundo

$1,000 - $2,499
Anonymous
Aquatropics
Association for Tropical Lepidoptera
Lawrence & Carol Aten
Jon & Marty Berger
Kenneth & Laura Berns

Roger & Linda Blackburn
Captiva Cruises, Inc.
Joe & Ginny Cauthen
Alicia Churchill
Climb for Cancer Foundation, Inc.
David & Marion Colburn
Community Foundation of New Jersey
Climb for Cancer Foundation, Inc.
Davis & Judi Rembert Foundation, Inc.
Diamond Tours, Inc.
Sheila Dickson
Michael Dion
Betty Ann Dunckel
Philip & Barbara Emmer
Ronald & Diane Farb
Flying Biscuit Cafe
Richard & Mary Ann Green
Hell’s Bay Boatworks
Carletta & Jim Herring
Giovanna Holbrook
William & Gwen Howard
Harriett Hulbert
Roy Hunt
John & Peggy Kirkpatrick
Thomas & Virginia Klein
John Lane
John & Peggy Kirkpatrick Fund, LLC
Deborah & Terry Lott
William Marquardt
Joel & Susan McCoy
Joshua McCoy & Sarah Mendonca
Mark Meisel & Anna-Lisa Paul
Robert & Joelen Merkel
Robert Milbrath (d)
Jacqueline Miller
Michael & Becky Moulton
Joyce & Thomas Murz
Nick & Linda Penniman
Annette Perry
Bill & Norma Prestch
Davis & Judith Rembert
Paul & Susan Robell
Deborah Russell & Elmer Wheeler
Eileen McCarthy Smith
Robert Spangenberg
Rick & Aase Thompson
Karen Walker
Sonia Weeks
Wells Fargo Foundation
Neil & Mary White
Victor Yellen & Arlene Huszar
$500 - $999
Anonymous
Virginia Amsler
Mary Frey Bennett & Richard Bennett III
Barbara & Phil Emmer Family Foundation
John & Tifi Bierley
Harvey Budd & Ilene Silverman
Campus USA Credit Union
Pate & April Cantrell
Cape Coral Charter Schools
Richard & Gloria Comstock
Joshua & Sally Dickinson
Christine & John Engels
ExxonMobil Foundation
Frey Foundation
Ira & Gerri Gessner
Michael & Buff Gordon
Elizabeth Haeseker
Dea & Peter Hansen
Peggy & James Henderson II
Robert & Lynne Holt
Informal Education Products Ltd.
Kenny James & Thomas Pinckard
Douglas & Sheila Jones
Paul & Leslie Klein
Alan Kroll & Shari Ellis
Lamnott duPont River Bend Ranch
Cynthia Larimer
Allison Leidner
Robert & Phyllis Levitt
Norman & Roslyn Levy
Colby Lowe
Bruce & Jeannette MacFadden
Lawrence Mazzioli
Darlene & Jeffrey Novak
Stephen Peartn & Cammy Abernathy
Joan Pickman
Barbara & Laurence Purdy
Anne & Charles Reynolds, Jr.
Arian & Edith Rosenbloom
Art & Edda Ross
S.W. Florida Regional Planning Council
Sarasota Shell Club
School District of Lee County
Karl & Kathryn Schroeder
Graig & Kris Shaak
Glenn & Celeste Shilata
Mark & Deborah Simon
Robert & Beverly Singer
Hermann Staudte
Craig & Audrae Tisher
Elizabeth Wing
William & Victoria Winterer
Patricia Yourdon

$250 - $499
Anonymous
Alan Agresti & Jacalyn Levine
Christina & Juan Arango
Archaeological Consultants, Inc.
Mitzi Austin & Wayne Smith
Fletcher & Nancy Baldwin
Janet & Timothy Bargar
William Barichivich & Jennifer Staiger
Paul G. Benedum, Jr.
Peter & Gudrun Bennett
Stan & Charity Blomeley
Myron & Louise Brown
Robin & Jan Brown
Donald & Cecilia Caton
Charles Perry Partners, Inc.
Charles & Mary Cichra
Cynthia & Patrick Cimo
Ann Cordell
Dian Deeeve
Lee & Barbara Dockery
Joseph & Caroline Dunn
Duval County School Board
Gary Edinger & Cynthia Weygant
Edison Park CEA
Donald & Mary Lou Eitzman
Antionette & Gerard Emch
James Ferrer
Florida Paleontological Society, Inc.
George & Leah Fox
John & Leilani Freund
Paul & Mary Ellen Funderburk
Jim & Ellen Gershon
Paul & Christine Gibbs
Carter & Nancy Gilbert
William Godwin & Volha Minich
Michael Gorham & Veronica Thiebach
Joann & Gregory Guyan
Barbara & Dave Hackett
David Harlos & Darcie MacMahon
Jeffrey & Sarah Harrison
Gene & Evelyn Hemp
Kerry Henderson & Teresa Mullin
Linda Hensley
Clark & B.J. Hodge
Richard & Joan Jones
Clayton & Linda Kllman
Gerald & Kathryn Kidder
John & Kathleen Kish
Angel Kwolek-Folland & Nathan Folland
Madelyn Lockhart
Ralph & Bronia Lowenstein
Lauren McIntyre & Willem Vermerris
Gary & Suzy Miller
Geoffrey & Ann Moore
Richard & Joanna Morrow
Dorothy & Gale Nevill
Max Nickerson
The Hon. Sandra Day O’Connor
Su-Min Oon
James & Suzanne Orr
Larry Page & W. Tangjitjaroen
Bethany Parker & Todd Williams
Edward Petkus
Warren & Sara Rice
Road Scholar
Russell & Brenda Robinson
The Rockefeller Foundation
John (d) & Nancy Ross
Kristin Rossetti & Matt Standridge
Beverly Sanders & Steven Benner
Erin & Brian Scarborough
Joseph & Anne Shands
Terri & Marjorie Silverman
Grover & Patricia Smart
Thomas & Susan Spain
Elizabeth Styrion & Robert Fulton
Jon & Patsy Thomas
Michael & Heidi Toomey
George & Marilyn Tubb
The Villages Charter School, Inc.
Carl & Brenda Walls
Brian & Kelly Watson
Almut Winterstein & Patrick Antonelli
Charles & Maureen Wood
Christopher & Carol Woodyard
Key (d) = deceased
Florida Agricultural College (Lake City) biology faculty create a collection of natural history teaching specimens.

Florida Agricultural College closes.

The natural history collections move to Thomas Hall, a dormitory, on the new University of Florida campus in Gainesville.
THE EVOLVING FLORIDA MUSEUM OF NATURAL HISTORY - PLANS FOR FUTURE PUBLIC EXHIBITS AND RESEARCH CENTER

1910
- The Museum moves to Science Hall on the UF campus.

1917
- The Florida Legislature officially reserves the Florida State Museum.

1939
- The Museum reopens back on campus in Dickinson Hall, still home to most of its collections and research activities.

1971
- Powell Hall, the Museum's Education and Exhibition facility in the UF Cultural Plaza, opens to the public.

1997
- The McGuire Center for Lepidoptera and Biodiversity, including the popular Butterfly Rainforest exhibit, opens to the public Aug. 14.

2004
- The SmithGroup of Washington, D.C., completes a site master plan for the 21st century Florida Museum building.

2012
- The digital timeline of the Florida Museum of Natural History highlights significant events and milestones in its history, including its move to Science Hall, designation as a state museum, and expansion of public exhibits and research activities.
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