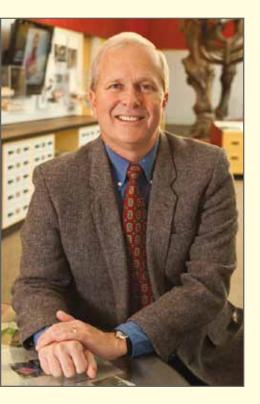


Florida Museum of Natural History

ANNUAL REPORT • 2009-2010







2010 International Year of Biodiversity

The United Nations declared 2010 to be the International Year of Biodiversity. It is a celebration of life on earth and of the value of biodiversity for our lives.

A MESSAGE from the DIRECTOR

As we join in the celebration of 2010 as the International Year of Biodiversity, I am reminded of the "breadth" and "depth" of this Museum's commitment to understanding, preserving and interpreting our natural world.

In terms of "breadth," I would point to the recent \$2.7 million grant received by Curator of Fishes, Larry Page, as part of the NSF Planetary Biodiversity Inventory program to survey the Cypriniformes (minnows, suckers, loaches) worldwide. His previous PBI catfish grant identified more than 500 species new to science with additional species being described each month. The current grant should have a similar impact.

The Moorea Biocode Project of Curator Gustav Paulay and his team of invertebrate zoologists illustrates what I mean by "depth." Funded by the Gordon and Betty Moore Foundation, this project departs from the taxon-specific survey approach. Instead, Paulay's project is an intensive, thorough investigation of one place – in this case the tiny South Pacific island of Moorea (Tahiti's neighbor) – to produce the first comprehensive inventory of all non-microbial life in a tropical ecosystem. A genetic barcode is created for every animal and plant collected, some of which are literally vacuumed from the ocean floor, in this novel biodiversity investigation.

Several spectacular collection gifts also contributed to our biodiversity focus this year. Notable among these is another magnificent gift from Bill and Nadine McGuire of Minnesota, who donated a collection of 100,000 butterflies and moths as well as 42,000 scientific books, periodicals and archival materials. Closer to home, Dr. Harry Lee of Jacksonville made a deferred gift of his important collection of mollusks comprised of more than 1 million fully cataloged specimens. Both gifts significantly expand the breadth and depth of our scientific collections.

Educating visitors about biodiversity is also central to our mission. A real estate gift from Aase and Rick Thompson of Gainesville, valued at more than \$1 million, triggered a challenge gift of \$3 million from David & Mary Ann Cofrin for renovation and expansion of our education facilities at the UF Cultural Plaza. Consistent with the Museum's desire to preserve biodiversity and create a sustainable energy future, the Museum took a major step with the installation of a 75 kilowatt photovoltaic array on the roof of Powell Hall. This system produces about 10 percent of the building's energy usage.

I trust this sampling of Museum activities provides a sense of the vibrancy and commitment that characterize our institution, and that you appreciate the varied accomplishments summarized in this report.

Opposite page: The Panther Chameleon, Furcifer pardalis, is native

to Madacascar.

Douglas S. Jones, Ph.D.

Director, Florida Museum of Natural History







Retired teacher Colby Lowe enjoys volunteering as a Museum docent where she learns about exhibits and shares her knowledge with visitors.

HOW THE MUSEUM saved my LIFE By Colby Lowe, Exhibit Docent

Retirement makes me think of the phrase 'be careful what you wish for.' I got the move to Florida right and bought a sweet little house. Now what? I don't play bridge or golf. There are only so many hours one can spend at the pool. I investigated volunteering for a political party and found out more of what I don't like to do than what I like.

Someone suggested the Florida Museum of Natural History. Perfect, I thought. As a retired teacher this would restore some contact with children that I missed and I might learn something. The traveling exhibit Megalodon was just about to open so I took the exhibit training. Then I had a "lucky break" in my hip that meant missing school tours training. I say "lucky break" because I have stayed with the traveling exhibits and I love it.

First, as an exhibit docent, there is something new every few months so there's no chance to get bored. There are plenty of children. Whether it is "Nigel Nose a Lot" in Grossology with his snot balloon, or Regina the Burmese python in ForEverglades, it is fun to watch the children's reactions. There is also the fellowship with fellow docents. Where else would I meet college students? And folks who have been at this 38 years, ready to share their experience?

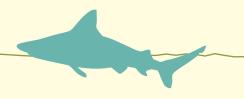
There are docent trips! I have been on a hay ride at Marjorie Kinnan Rawlings Historic State Park. We took a three-day

journey to the Everglades, an event-filled trip with boat and swamp buggy rides and even an airboat ride. These trips are good for laughter and learning.

Speaking of learning...I have accumulated quite an array of 'new to me' facts. I learned that the Tuareg are more than a Volkswagen model. They are a tribe renowned for being nomads who crisscrossed the Sahara Desert with camel caravans of salt. Salt is so valuable as the only food preservative they know that they can't travel without it and even use it as currency. The word salary comes from salt.

In Grossology I learned that my nose is a miracle, not only breathing and smelling but connecting to tear ducts to channel overflow tears. On your own you breathe first out of one nostril, then the other. Not to mention the advantages and disadvantages of mucus production. I could do five minutes on "the nose."

Recently I remarked to a ranger on Paynes Prairie Preserve State Park, "learn something new every day." He responded, "I think you are supposed to." If that sounds right to you, come on down and check out volunteering at the Florida Museum. You will love it. It saved my life!





Collections and Research

Ichthyology Curator Larry Page received a \$2.7 million NSF Planetary Biodiversity Inventory grant to survey Cypriniformes.

The Florida Museum of Natural History houses more than 30 million scientific specimens. The collections include field notes, photographs, databases and libraries that complement the irreplaceable scientific value of the specimens themselves. Most of the Museum's collections of plants, animals, fossil, and artifacts rank among the top 10 nationally and internationally.

During 2009-2010, the Museum's collections and research programs had an outstanding year. Though its primary focus is on Florida, the southeastern United States and the Caribbean, Florida Museum research spans the globe. Museum researchers brought in a record \$5.8 million in new and continuing multi-year grants to support field

and laboratory research, collections and education ranging from Pre-K to Ph.D.

Among many others, exciting new projects include research on the evolution of plants and animals of the Panamanian isthmus, the diversity and evolutionary relationships of cyprinid fishes (minnows) worldwide, and the genetic make-up of the world's most primitive flowering plant. These projects support and educate students from the University of Florida as well as others around the world who are training to become the next generation of scientists.



ANTHROPOLOGY AND ARCHAEOLOGY

Caribbean Archaeology

The Caribbean Archaeology Division continued its leadership role on regional and international levels. The Museum curates the world's second-largest systematic collection of Caribbean artifacts and hosted a number of international researchers to study the collection. The Museum program remains the only U.S. group working in all three of the Caribbean's archipelagoes, with research in St. Lucia, Puerto Rico and the Turks & Caicos Islands. These investigations contributed to a complete revision of the islands' cultural history and colonization. Participation in the international conference on Global Human Ecodynamics highlighted the importance of this region for long-term perspectives on global climate change. The program continues to focus on the historical role of humans in shaping landscapes, ecologies and behavior.

Ceramic Technology Lab

Ann Cordell studied prehistoric pottery from the Kolomoki site, Ga., in collaboration with Thomas Pluckhahn (University of S. Florida) to answer questions about manufacturing origins of the "Weeden Island" style of pottery in Northern Florida and Southern Georgia.

Environmental Archaeology

Kitty Emery, UF graduate student Erin Thornton and geochemists from McMaster University combined zooarchaeology with isotopic chemistry to trace climate change in the ancient Maya world. Their results suggest that several droughts affected the Maya, but had variable impacts on different sites across the region. The work finds that the droughts were insufficient to have caused widespread loss of animal biodiversity or of major water systems.

Florida Archaeology

At the Randell Research Center, the Museum's archaeological facility on Pine Island in Southwest Florida, the historic Ruby Gill House was fully restored after severe damage sustained during Hurricane Charlie in 2004. The beautifully rehabilitated building accommodates offices and laboratories used by curator William Marquardt, associate scientist Karen Walker and colleagues as they study the ancient Calusa culture and conduct educational programs at the historically significant archaeological site.

Latin American Archaeology

Through an agreement with the government of Belize, curator Susan Milbrath and courtesy assistant curator Debra Walker coordinated the transfer of a major archaeological collection from Southern Methodist University to the Florida Museum. The collection, excavated in Cerros, Belize, includes field catalogs, maps, photographs, whole pots, and vast amounts of ceramic sherds, ground and chipped stone, faunal bone, shell, macrobotanical samples, metals and other materials. Dating to the late pre-classic period (350 BC-AD 150), the Cerros site is key to understanding the development of Maya civilization. It is the only intact early Maya collection excavated by archaeologists housed in the U.S.

Spanish Colonial Archaeology

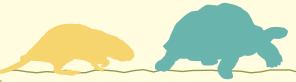
The Historical Archaeology program continued its ongoing research on the initial settlement and colonization of St. Augustine, and completed a new summary report of excavations conducted at the Fountain of Youth Park Archaeological Site from the 1930s to present. Kathleen Deagan and Gifford Waters also directed excavations at the Nombre de Dios mission site in St. Augustine in an effort to better understand the area's 16th-century and mission-period occupations. Curation upgrades of the pre-1970s collections of historic period Caribbean sites continued in the laboratory.



This beaded bandolier bag is one of about 500 Seminole and Miccosukee artifacts in the Museum's Florida Ethnographic Collection. The Museum is working to digitize the collection and facilitate dialogue between curators and native peoples about the artifacts.

GENETICS RESOURCES REPOSITORY

The Museum added more than 12,000 DNA samples of plants, birds, amphibians, reptiles, fishes, butterflies, marine invertebrates and various animal tissues to its Genetics Resources Repository. This rapidly growing collection is featured in the Frontiers of Science display in the *Collections are the Library of Life* exhibit at Powell Hall, which opened in November 2010. This exhibit highlights the wide range of biological materials stored long term in the liquid nitrogen freezer.



INFORMATICS

The Informatics Division has been involved in a number of activities including development of the Museum's new database system. The system provides data management of currently eight million digitized objects and allows the public the ability to search, map and browse images of the specimens. In addition to the ongoing development of The Tree of Life Knowledge and Information Network (www.tolkin.org), a web application that supports biodiversity research and allows distant collaboration among scientists, more progress was achieved with the name registration database known as RegNum, which stores and manages phylogenetic definitions, and the Digital Florida initiative that provides museum-based collections information through interactive web resources.



Herbarium and Informatics Assistant Curator Nico Cellinese received a prestigious National Science Foundation \$865,000 CAREER Award. The five-year grant will support her research on genetic diversity in the flowering plant group Campanulaceae in the Eastern Mediterranean Basin.



Florida Museum Director Doug Jones (left), former directors Peter Bennett and Wayne King and former senior associate director Graig Shaak helped executive secretary Sharon Thomas celebrate her retirement during a June reception at Dickinson Hall. Thomas worked at UF 35 years, including 30 in the Museum Director's office, where she still serves as a volunteer.

NEONTOLOGY

Herbarium

Graduate student Kurt Neubig and research associate Skip Blanchard are reconstructing the evolutionary history of the "marsh mallows," including the genus Kosteletzkya, based on DNA data. This genus is widely distributed in tropical Africa and the New World and closely related to Hibiscus. Their evolutionary trees indicate a group of African species were the parental stock for ancient hybrids that gave rise to several modern species. Remarkably, this evolutionary story is very similar to hybridization among species of cotton, a closely related group that has undergone a parallel evolutionary history.

Herpetology

Herpetology's crowning achievement this year was its National Science Foundation collection grant, received together with the Museum's Ichthyology Division, to curate large scientific specimens in a safe, efficient manner and provide a better environment to conserve them for posterity. The specimens include crocodilians, large turtles, lizards and snakes. The Museum's Herpetology collection is unusual because of the number of large specimens from throughout the world.

Ichthyology

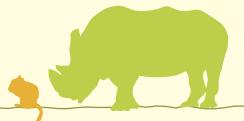
Larry Page is principal investigator on a new \$2.7 million award from the National Science Foundation to conduct a worldwide inventory of Cypriniformes, the largest order of freshwater fishes, including minnows, loaches and suckers. The four-year award is part of NSF's Planetary Biodiversity Inventory initiative, which aims to catalogue every species on Earth by 2025. Page directed another Planetary Biodiversity Inventory grant from 2003 to 2009 to inventory catfishes worldwide. That effort has led to the description of 500 new catfish species and is expected to result ultimately in the description of 1,000 new species. The Cypriniformes project is expected to have similar results.

Invertebrate Zoology

From jagged volcanic peaks to a labyrinth of coral reefs, the Invertebrate Zoology team climbed, dove and hiked, and even vacuumed every habitat on Tahiti's beautiful neighbor Moorea. The Moorea Biocode Project, supported by a grant from the Gordon and Betty Moore Foundation, will create the first comprehensive inventory of all non-microbial life in a tropical ecosystem. In addition, a genetic barcode will be generated for every animal and plant collected, creating a DNA library that can be used to identify species from tiny tissue samples.

The Katharine Ordway Chair in Ecosystem Conservation

Three students, Jill Jankowski, Wendy Schelsky and Christine Stracey, finished their doctoral theses on birds, one in Illinois, one in Gainesville, and the other in Peru. One of Jankowski's thesis chapters on Andean birds made the cover of the flagship journal Ecology, and she started a postdoctoral program at the University of British Columbia. Schelsky accepted a position at the Illinois Natural History Survey and Stracey started a faculty position at Westminster College in Utah.



Mammalogy

Florida Museum scientists have been surveying bats throughout the Caribbean with a focus this year on the Bahamas. Surveys show the common species on Eleuthera, Abaco and Long islands are doing well, but two uncommon species may be in serious decline. One exciting discovery was a bat living on Long Island that was previously only known from the Bahamas as a fossil. Future plans include using DNA sequences from the bats to estimate population sizes and make recommendations about conservation management.

Molecular Systematics and Evolutionary Genetics Laboratory

For the past decade, researchers in the Molecular Systematics and Evolutionary Genetics Laboratory have been studying the genetic basis for the origin of the flower. Recent discoveries show living relatives of the first flowering plants use the same genes to construct their flowers as more recently derived, and better studied, species. But the species express these genes differently, sometimes resulting in striking differences in structure of the flower. This research will assist in helping scientists better understand the source of the amazing variety in flowering plants.

Orchid Research

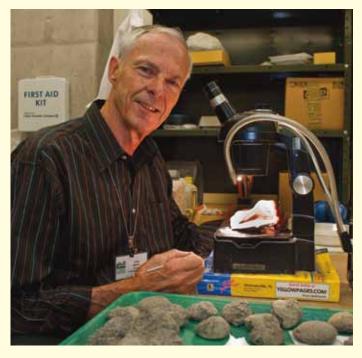
In the recent book Genera Orchidacearum (Volume 5, Oxford University Press) Mark Whitten, Norris Williams and Kurt Neubig provided nearly all the molecular phylogenetic trees for thousands of species in the subtribes Maxillariinae, Oncidiinae, Zygopetalinae and Stanhopeinae. These trees resulted in a major reclassification of approximately 10 percent of all orchids, which are the largest family of flowering plants.

Ornithology

Museum ornithologists expanded their research efforts in Peru, focusing on the deep, remote valleys in the country's northern region, where unique birdlife inhabits the thorny deserts and dry forests. Dave Steadman, Andy Kratter, Scott Robinson and students Jessica Oswald and Oona Takano are partnering with Peruvian scientists to learn how today's bird communities change with elevation, how much genetic isolation exists between the birds of adjacent valleys, and, by studying fossils, how birdlife has changed since the last ice age.



Ornithology Collection Manager Tom Weber is coordinating an NSF-funded \$446,000 project to digitize the Museum's analog bird-sound field recordings, one of the largest collections in the Western Hemisphere with 23,650 cataloged recordings representing about 3,000 species.



Craig Samuel has worked since 2006 as a volunteer for the Invertebrate Paleontology Division, where he collects, sorts and identifies fossils.

PALEONTOLOGY

Invertebrate Paleontology

Invertebrate paleontology scientists continue to provide information and images to researchers and the public about new state and regional fossil discoveries. Two new genera and three new species of Eocene starfish were collected in Alachua and Citrus counties, and a new species of giant snail (up to 1 meter long) was discovered in similar-aged deposits in Jamaica. Museum invertebrate paleontologists also served as officers and board members of the Florida Paleontological Society and produced fossil identification guides used by hundreds of collectors from Florida and elsewhere.

Paleobotany and Palynology

Steve Manchester and colleagues discovered new paleobotanical sites near Bogota, Colombia, containing plant fossils informative about the early origin of the modern Neotropical Forest. As part of a new effort in South America, Manchester, with graduate student Fabiany Herrera, revisited and collected the famous Belen fossil fruit and seed flora of western Peru, last studied in 1939.

Vertebrate Paleontology

Associate Curator Jonathan Bloch continued his work on early primates, including several new studies on cranial anatomy using CT imaging that provided insight into the evolution of the brain. New collections of Paleocene-Eocene fossils from Wyoming and northern Colombia are being used to document biological responses to global warming, and fossils from the early Miocene of Panama included the discovery of the oldest camels from Central America. Graduate student Dana Ehret finished his dissertation on fossils sharks, including new data on the origin of the great white shark. Public digs of early Miocene fossils at Thomas Farm in Gilchrist County resulted in the recovery of a skull of the rare wolverine-like carnivore Zodiolestes freundi.

RESEARCH LOCATIONS

Florida – All counties, with special attention to Alachua, Broward, Calhoun, Charlotte, Citrus, Collier, Columbia, Dade, Duval, Franklin, Gadsden, Gilchrist, Glades, Hardee, Highlands, Hillsborough, Holmes, Jackson, Jefferson, Lee, Leon, Levy, Liberty, Marion, Nassau, Pasco, Pinellas, Polk, Putnam, St. Johns, Sarasota, Suwannee, Union, Volusia, Wakulla and Walton counties.

Other States - Alabama, Arizona, Georgia, Hawaii, Illinois, Kentucky, Louisiana, Montana, Nebraska, New York, South Carolina, Tennessee, Texas, Wyoming.

International - Bahamas, Bhutan, Bolivia, Colombia, Costa Rica, Cuba, Ecuador, French Polynesia, Guyana, Honduras, Italy, Jamaica, Guatemala, Mexico, Pakistan, Panama, Peru, Puerto Rico, St. Lucia, Thailand, United Kingdom.

SPECIAL ACHIEVEMENTS, FACULTY and STAFF

Kurt Auffenberg awarded Florida Museum Thompson Van Hyning Award for meritorious service.

Reed Beaman appointed to serve as a Program Director at the National Science Foundation, Division of Biological Infrastructure for 2010-11.

Nico Cellinese received an NSF CAREER award.

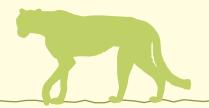
Kathleen Deagan received Sen. Bob Edwards Award from the Florida Department of State. Awarded "In recognition of public service that has forever changed the course of Historic Preservation in Florida."

Bruce MacFadden received Joseph T. Gregory Award for outstanding service to the Society of Vertebrate Paleontology. He also served as Program Officer at the National Science Foundation Division of Research on Learning, Lifelong Learning Cluster.

NEW GRANTS and CONTRACTS

During the 2009-10 fiscal year, the Florida Museum received \$3.9 million in new grants and contracts from the following organizations:

- Florida Department of Agriculture and Consumer Services
- Florida Wildflower Foundation
- National Science Foundation
- The Ohio State University Research Foundation
- Smithsonian Tropical Research Institute
- University of Arizona
- U.S. Dept. of Commerce



TEACHING

ANG 4905	Individual Research in Anthropology, 23 credits	
ANG 5172	Seminar in Historical Archaeology, 3 credits	

ANG 6120C/ANT 4147C Environmental Archaeology, 3 credits

ANG 6150 Individual Research in Anthropology, 3 credits

ANG 6186 Economic Archaeology, 3 credits

ANG 6224 Painted Books of Ancient Mexico, 3 credits

ANG 6905 Individual Studies, 10 credits

ANG 6905/6945 Individual Studies in Anthropology, 4 credits

ANG 6910 Supervised Research, 3 credits

ANG 6915 Research Projects in Social, Cultural,

and Applied Anthropology, 5 credits

ANG 6940 Supervised Teaching, 6 credits

ANG 6971 Research for Master's Thesis, 13 credits

ANG 7979 Advanced Research, 6 credits

ANG 7980 Advanced Research, 20 credits

ANT 4907 Honors Scholar Research, 2 credit hours

ARH 6430 Museum Communities, 3 credits

ARH 6930 Museum Ethics, 3 credits

BOT/ZOO 5115 Paleobotany, 3 credits

BOT 6905 Individual Studies in Botany, 4 credits

BOT 6935 Herbarium Management, 1 credit

BOT/Z00 6935 Topics in Biodiversity Informatics

and Molecular Systematics, 2 credits

BOT 6971 Research for Master's Thesis, 3 credits

BOT 7979 Advanced Research, 36 credits

BOT 7980 Research for Doctoral Dissertation, 32 credits

ENY 4396 Individual Research, 2 credits

ENY 6934 Seminar in Insect Biogeography, 2 credits

GLY 6971 Advanced Research, 6 credits

GLY 7979 Advanced Research, 4 credits

GLY 7980 Advanced Research, 8 credits

HIS 3931 Science in the Mall, 3 credits

HIS 4905 Individual Study, 6 credits

IDH 4905 Individual Work, 3 credits

PCB 6791 Research for Master's Thesis, 13 credits

WIS 4934 Invasion Ecology of Amphibians and Reptiles, 4 credits

WIS 4934/WIS 6934 Topics in Wildlife Ecology

and Conservation, 3 credits

WIS 6940 Supervised Teaching, 3 credits

WIS 6971 Research for Master's Thesis, 10 credits

WIS 7979 Advanced Research, 10 credits

ZOO 432 Marine Invertebrate Zoology, 6 credits (U. Washington)

ZOO 4905 Individual Studies in Zoology, 35 credits

ZOO 6905 Individual Studies in Zoology, 3 credits

Z00 6910 Supervised Research, 3 credits

ZOO 6927 Avian Anatomy and Specimen Preparation, 3 credits

ZOO 6927 Methods of Phylogenetic Inference, 4 credits

ZOO 6927 Vertebrate Macroevolution and Development, 3 credits

ZOO 6927/GLY 6932 Island Biogeography and Paleontology, 3 credits

ZOO 6927/GLY 6932 Seminar in Vertebrate Paleontology, 1 credit

ZOO 6927/GLY 6932 Systematics and the Fossil Record, 3 credits

Z00 7979 Advanced Research, 40 credits

ZOO 7980 Research for Doctoral Dissertation, 35 credits

Graduate Committees Served: 102 Graduate Committees Chaired: 76 Independent Studies Directed: 74



Exhibits

"The Fly Wheel" display in the CSI: Crime Scene Insects temporary exhibition uses a strobe light to illustrate the bug's life cycle progression.

Traveling Exhibits Program – Museum on the Road!

Traveling exhibits give the Museum the opportunity to share its research and education efforts with a broad national audience, while also garnering income to support production of new exhibitions. This year, the Florida Museum traveled two exhibits. The 5,000-square-foot Megalodon: Largest Shark that Ever Lived showed at the Miami Science Museum, the Virginia Living Museum and the North Carolina State Museum of Natural Science. The 3,000-square-foot TUSKS! *Ice Age Mammoths and Mastodons* traveled to the Las Vegas Natural History Museum, the University of Texas and the State Museum of Pennsylvania.



The Museum's Megalodon: Largest Shark that Ever Lived and TUSKS! Ice Age Mammoths and Mastodons exhibits traveled to various venues across the country last year.

Butterfly Science

The Museum opened a new permanent exhibition in the McGuire Center for Lepidoptera and Biodiversity with an expansion of the butterfly gallery showcasing behindthe-scenes research and collections areas. The Museum, well-known for its amazing live Butterfly Rainforest exhibit, is also home to one of the world's largest scientific collections of butterflies and moths. The new exhibits introduce visitors to ongoing science visible in the laboratories and collections areas. The Rearing Lab also was updated with a two-way audio system allowing visitors to talk to scientists, and new casework showcasing the lab's emerging butterflies.

Changing Exhibits

Rotating temporary exhibits provide the Museum's repeat visitors with new and diverse information. The changing exhibits also allow the Museum to stretch beyond its expertise, partner with community groups and collaborate with other institutions. This year the highly interactive Amazing Butterflies provided a great experience for families, Amazon Voyage: Vicious Fishes and Other Riches offered an exciting exploration of Amazon science, and Quilting Natural Florida II allowed the Museum to partner with a local quilting guild to produce a juried exhibit of international quilts featuring Florida natural history themes. In May the Museum opened CSI: Crime Scene Insects, which focused on the fascinating field of forensic entomology, including its history and use in crime solving.



Development and Membership

Museum Assistant Director for Exhibits, Darcie MacMahon, and husband David Harlos enjoy Passport to Key West.

The Museum made significant gains during the past year thanks to generous support from donors who believe in the importance of understanding and preserving biodiversity and cultural heritage. Private support makes a tremendous difference in the Museum's success. Dr. William and Nadine McGuire's gift of rare Lepidoptera specimens and books valued at more than \$15 million helped the Museum maintain its ranking as the world's leading butterfly and moth research center.

The Museum also received significant support from two Gainesville families. A real estate gift from Aase and Rick Thompson valued at more than \$1 million triggered the completion of a \$3 million challenge gift from Dr. David and Mary Ann Cofrin. Both gifts will support a Powell Hall expansion and renovation project, for which the Museum has received more than 25 percent of the needed funding.

A deferred gift of more than 1 million mollusk specimens to the Malacology collection from Dr. Harry and Sarah Lee documents the fauna's changes over several decades. It also includes the world's largest and most diverse private or museum collection of abnormally sinistral species, meaning they coil to the left. This significant gift also adds Dr. Lee to the Museum's Legacy Society, which recognizes donors who make provisions in their estate to benefit the Museum.

Woodward "Woody" Hanson's donation of the Hanson Family Archives presents a unique research opportunity for the Ethnography faculty and staff. The collection of

more than 1,000 documents, images and artifacts from 1884 to the mid-1900s provides invaluable information about the historic places, people and institutions of Southwest Florida, including unrivaled insight into the community's relationship with the neighboring Seminole and Miccosukee Indians.

Additional notable gifts include another significant ethnographic collection from I.S.K. and Sara Reeves, substantial Lepidoptera specimen donations from Drs. J. D. and Nancy Turner, Kent H. Wilson and Dr. Lowell Harris, as well as cash gifts to support the Florida Program for Shark Research, graduate student and faculty research, and the Discovery Room, among others.

Museum membership held steady during difficult financial times. The MembershipPlus program remained popular with 60 percent of new and renewing member selecting this option. The Museum Associates Board hosted another highly successful Passport fundraiser, generating more than \$60,000 to support Museum research, education and programs. This year's event - Passport to Key West - included the largest silent auction in the Museum's history.

The Museum is extremely thankful for the support of friends, donors and volunteers who believe in the Museum and its mission. For more information about the new Legacy Society or other ways to support the Florida Museum of Natural History, please contact Josh McCoy in the Museum Development Office, 352-273-2086.



Educational Programming

Dr. Scott and Buddy the T. rex entertain children on Pre-K Day.

Starry Night

In partnership with the UF Astronomy Department, Alachua Astronomy Club, NASA Space Grant consortium and GE Foundation, the Museum celebrated the International Year of Astronomy with a fun-filled night of astronomical proportions for the whole family. Activities for the Sept. 25 event included driving Lego moon rovers, seeing a portable planetarium show, viewing a moonscape in 3-D and joining astronaut, Capt. Winston Scott, for an inside look at what it takes to visit space. The event was extremely successful with more than 3,000 visitors.

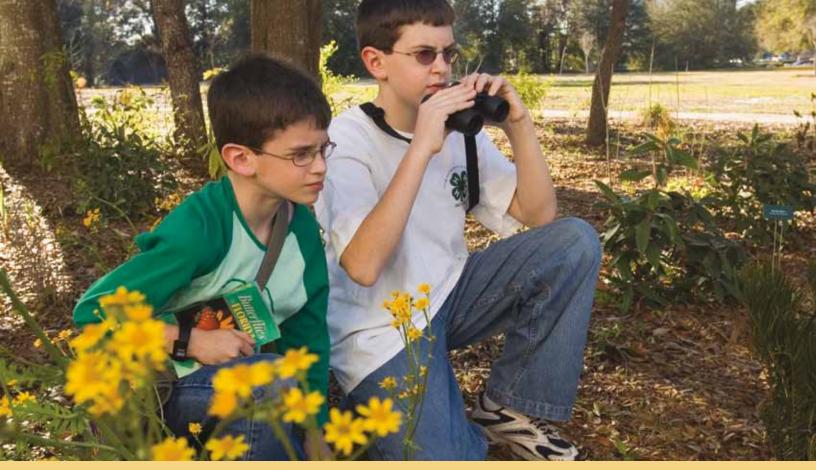


Visitors enjoy the fourth annual Starry Night public program.

Dinosaur Train Pre-K Day

Dr. Scott the paleontologist and Buddy the T. rex from the popular PBS TV show Dinosaur Train visited the Museum March 26 for a free public program. Presented in partnership with WUFT-TV/DT and the Early Learning Coalition of Alachua County, the event featured educational, dinosaur-themed activities and an opportunity for children to meet Buddy, star of the newest PBS KIDS show. Activities included dinosaur games, songs, coloring stations and a meet-and-greet session with Dr. Scott. Dr. Scott is Scott Sampson, a paleontologist, evolutionary biologist, educator, and research curator at the Utah Museum of Natural History. Scott also presented a free public lecture to discuss his latest research and new book, Dinosaur Odyssey: Fossil Threads in the Web of Life.

> Pre-K Day included many fun activities for students.



Center for Informal Science Education

Two youth survey butterflies as part of the WINGS program, which was selected as a recommended National 4-H curriculum.

MESS guides distributed nationwide

Marvelous Explorations through Science and Stories teacher's guides were made available on the websites of the Museum and national Office of Head Start. This early childhood science curriculum fosters children's language and literacy development, problem solving, curiosity, and general knowledge. The guides include background information for the teacher, hands-on experiences that address science ideas covered by state and national standards, recommended children's books and suggestions for reinforcing science learning across the curriculum.

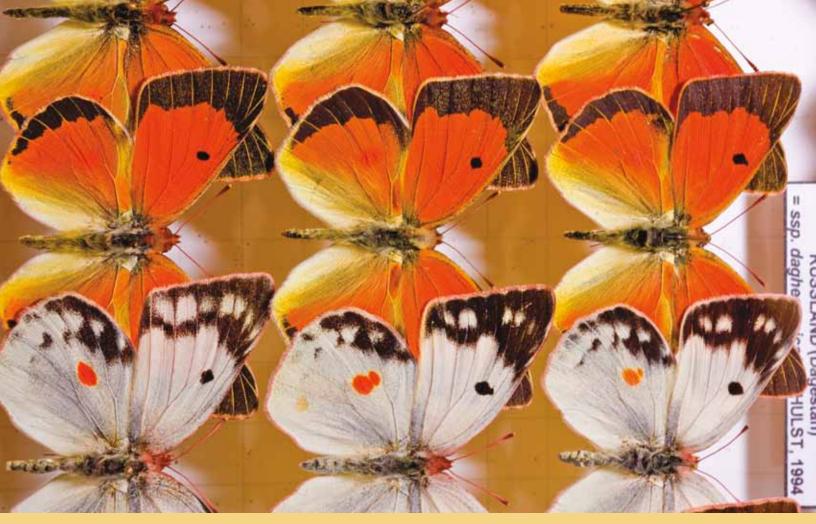
WINGS selected as recommended National 4-H curriculum

Project Butterfly WINGS: Winning Investigative Network for Great Science was selected as a reviewed and recommended National 4-H curriculum. The WINGS Youth Guide, Leader Guide and interactive website encourage adolescent interest, understanding, and long-term involvement in science. The project also received a National Science Foundation grant of \$86,757 for nationwide program dissemination and website additions and revisions.

Call the Wild apps developed with help of NSF grant

The Museum received nearly \$500,000 from the National Science Foundation for the project Call the Wild: Fostering Understanding of the Nature of Science. Developed by scientists and educators at UF's Florida Museum and IFAS Extension, Jacksonville Zoo and Gardens and Association of Zoos and Aquariums in collaboration with Odysseus Mobile Computing, Guide by Cell and Institute for Learning Innovation, the project examined the effectiveness of mobile phones for increasing visitor interest, engagement and understanding of the nature of science.

Prototypes incorporating different interpretive strategies and technology features were developed for exhibits on the bonobo, or pygmy chimpanzee, Magellanic Penguin and alligator. The Call the Wild-Alligators and Call the Wild-Penguins applications created for the Jacksonville Zoo and Gardens are available free through iTunes.



McGuire Center

These Colias aurorina butterflies were collected in the Republic of Dagestan, Russia, and donated to the Museum by William and Nadine McGuire.

The McGuire Center for Lepidoptera and Biodiversity had a highly successful year, receiving significant contributions to its collections, participating in a number of biodiversity projects and conservation surveys, and hiring two new assistant curators.

Dr. William and Nadine McGuire of Minnesota donated more than 100,000 Lepidoptera specimens to the Museum, including many rare species from around the world. The donation also included cabinets, drawers and an exceptional scientific library of more than 42,000 books, journals and papers. Collectively the gift was valued at more than \$15 million.

The new McGuire specimens include material from areas difficult to access, including Afghanistan, Iraq, Iran, Kurdistan, Mongolia, Pakistan, Saudi Arabia, Turkey, Turkistan and the smaller Central Asian Republics of the former Soviet Union. The donation also included more than 40,000 specimens of worldwide Papilionidae (swallowtail butterflies), many of which were not previously included in the McGuire Center collections.

Kent H. and Gene Wilson of Oklahoma donated a collection of more than 30,000 butterflies, considered the finest private or public museum holding in the U.S. for the swallowtail family. The collection includes specimens from extinct populations that are little known and poorly represented in the world's museums.

New butterfly conservation projects and biodiversity surveys were started in collaboration with the Africa Butterfly Research Institute in Kenya, the Irvine Conservancy in California, Central University in Ecuador, Silliman University and University of San Carlos in the Philippines and the University of the West Indies in Jamaica.

After highly competitive searches, the Museum hired two assistant curators of Lepidoptera: Akito Kawahara of the University of Maryland and Jodranka Rota of the Smithsonian Institution. The new scientists provide expanded strengths in molecular biology, systematics and ecology to the McGuire Center curatorial staff.

HONOR ROLL 2009-2010

\$1 Million or More

Harry & Sarah Lee William & Nadine McGuire Rick & Aase Thompson

\$500,000 or More

Lowell Harris

\$100,000 or More

Anonymous George (d) & Ana Austin Gordon & Catherine Hubbell Ron Leuschner Jon & Nancy Turner Kent Wilson

\$50,000 or More

Robert & Becky Belmont Barbara Denno Robert & Ana Dorion Ann Milner Progress Energy Foundation, Inc. I.S.K. & Sara Reeves **UF Student Government**

\$25,000 or More

Anonymous AT&T The Real Yellow Pages David & Katherine Dilcher Thomas Emmel Madelyn Lockhart Mary Ross (d) Mark & Deborah Simon William & Rachel Tippit

\$10,000 or More

Anonymous Blue Water Bay Francis & Miranda Childress Foundation, Inc. Climb for Cancer Foundation, Inc. Gladys Cofrin Charles & Elizabeth Covell Charles & Wanda Denny Sheila Dickison Ron & Dianne Farb Leonard & Libby Furlow Gainesville Community Foundation, Inc. The Gainesville Sun Douglas & Sheila Jones Lewis & Frances Lee Dale W. Schneider, Inc.

\$5,000 or More

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\$2,500 or More

Anonymous Association for Tropical Lepidoptera Jim & Mary Brandenberg Charles & Deborah Brix CBS4-MY11 Celebrations Catering David & Jacki Challoner Community Foundation of Greater Lakeland Community Foundation of New Jersey Cox Communications, Inc. John & Gretchen Coyle Diamond Tours, Inc. Entercom - KTK/SKY Irving Finkelstein Flying Biscuit Cafe Jamie Grooms & Lisa Wasshausen Robert & Donna Ing Thomas & Virginia Klein Mark Meisel & Anna-Lisa Paul Jacqueline Miller Geoffrey & Ann Moore Ray Nagle Pineland Marina Austin Platt S & S Cleaners Robert & Beverly Singer Fileen Smith Richard & Jean Smith Linda Stevenson Wachovia Thomas & Martha Warner Wells Fargo Foundation Victor Yellen & Arlene Huszar

Bruce Walsh

Guests enjoy the annual Director's Dinner in the Central Gallery.

\$1,000 or More

Virginia Amsler Anonymous Lawrence & Carol Aten Kenneth & Laura Berns Harvey Budd & Ilene Silverman John & Patricia Carlson Joe & Ginny Cauthen Sylvia Chappell Alicia Churchill David & Marion Colburn Richard & Gloria Comstock Marshall & Paula Criser Roland & Joyce Daniels Nick Davis & Sergio Marentes Michael Dion Teresa Dolan & Stanley Given Philip & Barbara Emmer Expedition Travel, Inc. Fondation Internationale du Banc d'Arguin Janie Fouke Gainesville Regional Utilities Peter & Lisa Gearen Richard & Mary Ann Green Harriett Hulbert Richard Hulbert, Jr. Informal Education Products Ltd. Robert & Lisa Nowak Jerry Kelly Foundation, Inc. David & Claudia Ladensohn Dennis & Carrie Lee Judy Locascio Bruce & Jeannette MacFadden William Marquardt Joshua McCoy & Sarah Mendonca Mac & Libby McGriff Kenneth & Linda McGurn Merrill Lynch & Co. Foundation, Inc. Robert Milbrath Michael & Becky Moulton Nancy O'Hare Susanne & Lawrence Paper Penniman Family Foundation Annette Perry Nancy Perry Floyd & June Preston Bill & Norma Pretsch Progressive Restaurants, Inc. Quilters of Alachua County Day Guild Davis & Judith Rembert Marshall E. Rinker, Sr., Foundation, Inc. Paul & Carole Schulz Eric & Jennifer Scott Jon & Beverly Sensbach Graig & Kris Shaak Shady Oaks Butterfly Farm Shands at the University of Florida Alan & Ellen Shapiro Robert Spangenberg Stevenson Architects, Inc. C. Frederick & Aase B. Thompson Foundation Paul and Christabel Vartanian Karen Walker Neil & Mary White Joe & Evelvn Wilder

Norris & Nancy Williams

\$500 or More

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HONOR ROLL 2009-2010

\$250 or More

Alan Agresti & Jacalyn Levine Richard & Barbara Anderson Anonymous Archaeological Consultants, Inc. Carol Aronheim Alan Barnes & Gail Ellison Fiona & Grenville Barnes Ray Barrett Michael Barton & Leslie Florence Beautiful Moments Party Rental Paul Benedum, Jr. Peter & Gudrun Bennett Michael & Judy Blachly Roger & Linda Blackburn Riley & Peggy Blitch Stan & Charity Blomeley Gary Borse Brittany's Fine Jewelry, Inc. Jane Brockmann & Thomas Rider Myron & Louise Brown Robert Bryan Casa Monica Hotel Joann Chandler Priscilla Cheney Betty & Samuel Colgate Comfort Keepers Ann Cordell John Davis Kathy Deagan & Larry Harris (d) Delectable Collectables Lee & Barbara Dockery Richard & Virginia Dolder Lvnn & Joseph Domenech, Jr. Paul & Polly Doughty Gary Edinger & Cynthia Weygant Donald & Mary Lou Eitzman Gerard & Antoinette Emch Florida Paleontological Society, Inc. Robin & Lin Fox Paul & Mary Ellen Funderburk Gainesville Today Magazine Jim & Ellen Gershow Ira & Gerri Gessner Paul & Christine Gibbs Joseph Glover Elizabeth Haeseker & Hugh Popenoe Tara Hamer Gill & Robert Gill, Jr. David Harlos & Darcie MacMahon Gene & Evelvn Hemp Linda Hensley Carletta & Jim Herring Theresa Hirko Clark & B. J. Hodge Holborn Creative Media Home Court Sports Roy Hunt Clayton & Linda Kallman Gerald & Kathryn Kidder Malcolm & Susan King Carole Kircher John & Kathleen Kish Jay & Sharon Koons Angel Kwolek-Folland & Nathan Folland

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Memorial Gifts Received in Honor of

Adele Anderson George Austin Pope Cheney Norman Roberts

Key: (d) = deceased



Custodian Melinda Augustus, featured in The Philosopher Kings, was recognized with a reception and screening of the documentary.

Marion Lasley

Kha Le-Huu & To-Lan Trinh-Le

PEER-REVIEWED PUBLICATIONS

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A young Museum visitor explores science during a Discovery Hour program.

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Graduate student Alex Hastings displays a crocodile vertebrae discovered in Colombia.

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Kratter, A.W. and D. Kaufmann. 2010. First record of White-throated Swift (Aeronautes saxatalis) for Florida. Florida Field Naturalist 38:63-67.

Krysko, K.L. 2009. Geographic distribution: Ctenosaura pectinata (Mexican spiny-tailed Iguana). Herpetological Review 40:112.

Krysko, K.L. and A.P. Borgia. 2009. Geographic distribution: Phelsuma madagascariensis (Madagascar Day Gecko). Herpetological Review 40:364.

Krysko, K.L., K.M. Enge, E.M. Donlan, E.A. Golden, J.P. Burgess and K.W. Larson. 2010. The non-marine herpetofauna of Key Biscayne, Florida. Herpetological Conservation and Biology 5:132-142.

Lea, R.N., H. Espinosa-Pérez, L.T. Findley, C.R. Gilbert, N.E. Mandrak, R.L. Mayden, J.E. Nelson and L.M. Page. 2010. Comments on Raja say Le Sueur, 1817 (currently Dasyatis say; Chondrichthyes, Myliobatiformes, DASYATIDAE): proposed change of spelling to Raja sayi Le Sueur, 1817 1 (Case 3410). Bulletin of Zoological Nomenclature 67:66-67.



Vertebrate Paleontology Associate Curator Jonathan Bloch compares the 54-million-yearold skull of Mimoperadectes houdei, a sister species of all living opossums, with a skull of the modern North American opossum.

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López-Vinyallonga, S., M. Arakaki, N. Garcia-Jacas, A. Susanna, M.A. Gitzendanner, D.E. Soltis and P.S. Soltis. 2010. Isolation and characterization of novel microsatellite markers for Arctium minus (Compositae). American Journal of Botany Primer Notes and Protocols 97:e4-e6.

Lowry, D., A.L.F. Castro, K. Mara, L.B. Whitenack, B. Delius, G.H. Burgess, and P. Motta. 2009. Determining shark size from forensic analysis of bite damage. Marine Biology 156:2483-2492.

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MacFadden B.J. 2009. Did Bison occur in the late Pliocene (late Blancan) of Florida? Evidence from rare earth element analysis. pp. 371-581 in L.B. Albright III, ed. Papers on Geology, Vertebrate Paleontology, and Biostratigraphy in Honor of Michael O. Woodburne. Flagstaff, Museum of Northern Arizona Bulletin 65

MacFadden, B.J., R.G. DeSantis, J. Labs Hochstein, and G.D. Kamenov. 2010. Physical properties, geochemistry, and diagenesis of xenarthran teeth: Prospects for interpreting the paleoecology of extinct species. Palaeogeography, Palaeoclimatology, Palaeoecology 291:180-189.

MacFadden, B.J., M.X. Kirby, A. Rincon, C. Montes, S. Moron, N. Strong and C. Jaramillo. 2010. Extinct peccary "Cynorca" occidentale (Tayassuidae, Tayassuinae) from the Miocene of Panama and correlations to North America. Journal of Paleontology 84:288-298.

Malay, M.C. and G. Paulay. 2010. Peripatric speciation drives diversification and distributional pattern of reef hermit crabs (Decapoda: Diogenidae: Calcinus). Evolution 64:634-662.

PEER-REVIEWED PUBLICATIONS continued



Program Assistant Shuronna Wilson celebrates with colleague Mary Windham during a July 2009 reception marking Windham's retirement after 39 years at UF, including 25 with the Museum.

Manchester, S.R. and M. Hottenrott. 2009. Largefruited Salicaceae s.l. from the Miocene tuff of the Eichelskopf, northern Hessen, Germany. Feddes Repertorium 120:373-378 DOI: 10.1002/ fedr.200911116.

Manchester, S.R. and E.O'Leary. 2010. Phylogenetic distribution and identification of fin-winged fruits. Botanical Review 76:1-82.

McMurran, D.M. and S.R. Manchester. 2010. Lagokarpos lacustris, a new winged fruit from the Paleogene of western North America. International Journal of Plant Sciences 171:227-234.

Marquardt, W.H. 2010. Mounds, middens, and rapid climate change during the Archaic-Woodland transition in the southeastern United States. pp. 253-271 in D.H. Thomas and M.C. Sanger, eds. Trend, Tradition, and Turmoil: What Happened to the Southeastern Archaic? Anthropological Papers of the American Museum of Natural History, vol. 93, New York.

Martin, J.B. and R.W. Portell. 2009. Field trip guide: A brief introduction to the geology, hydrology and natural history of north central Florida, pp. 43-49 in A.S. Engle and S.A. Engle, eds. Select field guides to cave and karst lands of the United States. Karst Waters Institute Special Publication 15.

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Miller, J.Y. 2010. Lee Denmar Miller (1935-2008): His life and a brief history of the Allyn Museum of Entomology. Journal of the Lepidopterists' Society 64:38-49.

Miller, J.Y. and A. Sourakov. 2009. Some observations on Amauta cacica procera (Boisdouval) (Castniidae: Castniinae) in Costa Rica. Tropical Lepidoptera Research 19(2):113-114.

Moore, M.J., P.S. Soltis, C.D. Bell, J.G. Burleigh and D.E. Soltis. 2010. Phylogenetic analysis of 83 plastid genes further resolves the early diversification of eudicots. Proceedings of the National Academy of Sciences, USA 107:4623-4628.



This Adonis blue butterfly, *Polyommatus* bellargus, is from South Tyrol in Austria.

Moore, M.J., P.S. Soltis, C.D. Bell, J.G. Burleigh and D.E. Soltis. 2010. Phylogenetic analysis of 83 plastid genes further resolves the early diversification of eudicots. Proceedings of the National Academy of Sciences, USA 107:4623-4628.

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Oliveira, P., F.H.V. Hazin, F. Carvalho, M. Rego, R. Coelho, A. Piercy and G.H. Burgess. 2010. Reproductive biology of the crocodile shark Pseudocarcharias kamoharai. Journal of Fish Biology 76:1655-1670.

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Pimiento, C., D.J. Ehret, B.J. MacFadden and G. Hubbell. 2010. Ancient nursery area for the extinct giant shark Megalodon from the Miocene of Peru. PLoS ONE 5:e10552.

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The American green tree frog, Hyla cinerea, above, is being threatened by the invasive Cuban tree frog.

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Pranty, B., J.L. Dunn, S.C. Heinl, A.W. Kratter, P.E. Lehman, M.W. Lockwood, B. Mactavish and K.J. Zimmer. 2009. Annual report of the ABA Checklist Committee, 2007-2008. Birding 41:38-43.

Pregill, G.K. and D.W. Steadman. 2009. Prehistoric vertebrates from Guam (Mariana Islands) and the timing of the prehistoric arrival of Rattus. Diversity and Distributions 15:983-996.

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Reid, M. and A.D. Warren. 2009. A new grass skipper for Texas and the United States: Mnasilus allubita (Hesperiidae: Hesperiinae: Moncini). News of the Lepidopterists' Society 51:115-117.

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Romine, J.G., J.A. Musick and G.H. Burgess. 2009. Demographic analyses of the dusky shark, Carcharhinus obscurus, in the northwest Atlantic incorporating hooking mortality estimates and revised reproductive parameters. Environmental Biology of Fishes 84-277-289

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This bumblebee shrimp, Gnathophyllum americanum, was collected during a Museum research expedition to Guam.

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St. Clair, E.M., D.M. Boyer, J.I. Bloch and D.W. Krause. 2010. First records of a triisodontine mammal. Goniacodon levisanus, in the Late Paleocene of the Northern Great Plains, North America. Journal of Vertebrate Paleontology 30:604-608.

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Steadman, D.W. and R. Bollt. 2010. Prehistoric birds from Rurutu, Austral Islands. Pacific Science 64:315-

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Tarter, D.C., D.L. Chaffee, C.V. Covell, Jr. and S.T. O'Keefe. 2010. New distribution records of Corydalus cornutus (Linnaeus) (Megaloptera: Corydalidae) in Kentucky, U.S.A. Entomological News 120(4):375-



Paleobotany Curator Steve Manchester works in the lab.

Tennent, W.J., J.Y. Miller and A. Rawlins. 2010. Distribution of Acrophtalmia chione Felder and Felder, 1867, with descriptions of two new subspecies from eastern Indonesia (Lepidoptera: Nymphalidae: Satyrinae). Bulletin of the Allyn Museum 162:1-7.

Thompson, F.G. 2010. Four species of land snails from Costa Rica and Panama (Pulmonata, Spiraxidae, Spiraxinae). Revista de Biologia Tropical, 58:195-202.

Trager, M.D. and J.C. Daniels. 2009. Ant tending of Miami Blue Butterfly larvae (Lepidoptera: Lycaenidae): Partner diversity and effects on larval performance. Florida Entomologist 92:474-482.

van den Berg, C., Higgins, W.E., Dressler, R.L., Whitten, W.M., Soto-Arenas, M.A. & Chase, M.W. 2009. A phylogenetic study of Laeliinae (Orchidaceae) based on combined nuclear and plastid DNA sequences. Annals of Botany 104:417-430.

Wahlberg, N., E. Weingartner, A.D. Warren and S. Nylin. 2009. Timing major conflict between mitochondrial and nuclear genes in species relationships of Polygonia butterflies (Nymphalidae: Nymphalini). BMC Evolutionary Biology 2009, 9:92 doi:10.1186/1471-2148-9-92.

Wall, P., J. Leebens-Mack, A. Chanderbali, A. Barakat, H. Liang, L. Landherr, L.P. Tomsho, Y.-H., J.E. Carlson, H. Ma, S. Schuster, D.E. Soltis, P.S. Soltis, N. Altman and C.W. dePamphilis. 2009. Comparison of next generation sequencing technologies for transcriptome characterization. BMC Genomics 10:347.

Wang Q., S.R. Manchester, C. Li, and B.Y. Geng. 2010. Fruits and leaves of Ulmus from the Paleogene of Fushun, northeastern China, International Journal of Plant Sciences 171:221-226.

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Warren, A.D., A.V.Z. Brower and J.R. Ogawa. 2009. Revised classification of the family Hesperiidae (Lepidoptera: Hesperioidea) based on combined molecular and morphological data. Systematic Entomology 34:467-523.

Warren, A.D., J.C. Whelan and T.C. Emmel. 2010. Notes on mate-locating behavior by the skipper Phocides polybius lilea (Reakirt, [1867]) (Lepidoptera: Hesperiidae: Eudaminae). Tropical Lepidoptera Research 20:38-40.

Waters, G.J. 2009. Aboriginal ceramics at three 18th century mission sites in St. Augustine, Florida. pp. 165-176 in K.A. Deagan and D.H. Thomas, eds. From Santa Elena to St. Augustine: Indigenous ceramic variability (A.D. 1400-1700). Anthropological papers of the American Museum of Natural History, no. 90. New York, NY.

Weatherhead, P.J., G.L.F. Carfagno, J.H. Sperry, J.D. Brawn and S.K. Robinson. 2009. Linking snake behavior to nest predation in Midwestern bird communities. Ecological Applications 20:234-241.

Whitten, W.M. and M.A. Blanco. 2009. Generic treatments for Tribe Maxillarieae in A.M. Pridgeon, P.J. Cribb, M.W. Chase, and F.N. Rasmussen, eds. Genera Orchidacearum Vol. 5 (Part Two). ca. 50 pp. Oxford University Press 585 pp.



In July 2009, Florida Speaker of the House Larry Cretul, right, observed the necropsy of a 12-foot-long Burmese python with Museum herpetologist Kenneth Krysko. The snake was preparing to lay 23 eggs when she was captured in the Everglades.

PROFESSIONAL STAFF July 1, 2009 – June 30, 2010

Director's Office

Director - Douglas S. Jones, Ph.D. Associate Director - Beverly S. Sensbach Executive Secretary - Sharon K. Thomas

Budget and Human Resources

Assistant Director - A. Darlene Novak Office Manager - Barbara L. Hackett Pcards/Purchasing/Travel - Katie M. Suggs, Shuronna C. Wilson Personnel/Payroll - Christian B. Pickles, Arja A. Rompotti-Horn

Center for Informal Science Education

Program Director - Betty A. Dunckel, Ph.D. WINGS Project Director - Marilyn M. Martin Project Director - Shari A. Ellis, Ph.D. Project Coordinator - Dale Johnson Science Coordinator - Matthew Trager, Ph.D. Secretary - Dona-Marie Mintz

Development / Membership

Development Director - Joshua D. McCoy Membership Coordinator - Leslie L. Ladendorf Secretary - Susan A. Jarzen

Graphics

Lead Graphic Designer - Elecia J. Crumpton

Museum Technology

IT Director - William G. Paine Network Manager - Matthew J. Collins Webmaster - Sarah E. Fazenbaker Tech Support Lead - Timothy J. Talley IT Expert - Hilary F. Miller

Public Relations and Marketing

Assistant Director - Paul E. Ramey, APR Photographer - Jeffrey L. Gage

Department of Natural History (Collections & Research)

Associate Director and Chair -David W. Steadman, Ph.D. Assistant to Chair & Anthropology Registrar -Elise V. LeCompte Facilities Manager - George D. Hecht Program Assistant - Pamela W. Dennis

Caribbean Archaeology

Curator - William F. Keegan, Ph.D. Collection Manager - Ann S. Cordell

Environmental Archaeology

Associate Curator - Katherine F. Emery, Ph.D. Collection Manager - Irvy R. Quitmyer

Florida Program for Shark Research

Director, and Curator, International Shark Attack File - George H. Burgess Education Coordinator - Cathleen L. Bester Life History Coordinator - Andrew N. Piercy Post-Doctoral Research Associate -Jason G. Romine, Ph.D.

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

Interim 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 M. Goddard, Katarzvna Rachwal Post-Doctoral Research Associate -Haijun Zhu, Ph.D.

Invertebrate Paleontology

Curator - Douglas S. Jones, 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. Biological Scientist - Steve G. Daniels

Latin American Art and Archaeology

Curator - Susan Milbrath, Ph.D.

Invertebrate Zoology

Curators - Gustav Paulay, Ph.D., Fred G. Thompson, Ph.D. Collection Manager - John D. Slapcinsky Collection Assistant - Amanda M. Bemis Post-Doctoral Research Associate -Arthur Anker, Ph.D.

Mammalogy

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

McGuire Center for Lepidoptera and Biodiversity

Program Director - Thomas C. Emmel, Ph.D. Curator - Jacqueline Y. Miller, Ph.D. Assistant Curator - Keith R. Willmott, Ph.D. Assistant Professor - Jaret C. Daniels, Ph.D. Curatorial Scientist - Charles V. Covell, Jr., Ph.D. Collection Manager - Andrew D. Warren, Ph.D. Collections Coordinator - Andrei Sourakov, 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.

Museum Studies

Curator - Charlotte M. Porter, Ph.D.

North Florida Archaeology

Collection Manager - Donna L. Ruhl

Ornithology

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

Paleobotany and Palynology

Graduate Research Professor -David L. Dilcher, Ph.D., NAS Curator - Steven R. Manchester, Ph.D. Collection Manager - Hongshan Wang, Ph.D. Biological Scientist - Terry A. Lott Courtesy Research Scientist -David M. Jarzen, Ph.D.

Spanish Colonial Archaeology

Distinguished Research Curator 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.

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

Exhibits and Public Programs

Assistant Director - Douglas R. Noble, Ph.D.

Business Office

Office Manager - Charlene O. Smith Program Assistant - Katherine K. Gerard Fiscal Assistant - G. Colin Martin Special Events Coordinator - Karen A. Judd Store Manager - Stacey D. Crandall

Butterfly Rainforest

Vivarium Assistant Manager - Jeffrey L. Hansen Living Exhibits Specialist - Michael R. Boulware

Education and Visitor Services

Assistant Director - Jamie C. Creola Public Programs Coordinator -Kendra Lanza-Kaduce School Tours - Jeannette E. Carlisle Volunteer Program - Julie V. Crosby Post-Doctoral Research Associate -Marina Ascunce, Ph.D.

Exhibits

Assistant Director - Darcie A. MacMahon Designer - Ian M. Breheny Traveling Exhibits - Thomas L. Kyne

Security and Fabrication

Operations Coordinator - Kurt Auffenberg Artisan - Ronald A. Chesser Carpenters/Cabinetmakers - J. Patrick Bennett, Nathan R. Bruce Facilities - Jay C. Weber Security Guard Supervisor - Sean B. Geiger Security Guards -Jason A. DeBottis, John H. McIntosh, Harvey E. Yawn

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 Emeritus -S. David Webb, Ph.D.

VOLUNTEERS Total Volunteers

712 in 08-09

938 in 09-10

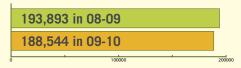
Hours Served

Hours Served

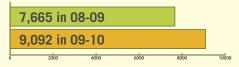
32,335 in 08-09

39,258 in 09-10

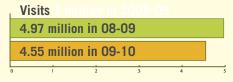
MUSEUM VISITOR ATTENDANCE

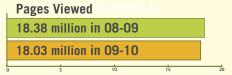


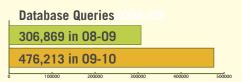
PUBLIC PROGRAMS ATTENDANCE



MUSEUM WEBSITE*







*Beginning with this report, the "visit" and "page view" numbers have been recalculated to exclude traffic generated by search engine robots indexing the site. They now more accurately reflect visitation to the site initiated by human visitors only. Database query figures have always excluded search engine robot traffic.

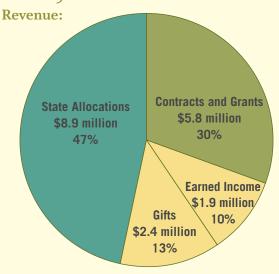
MEDIA COVERAGE

Number of News Articles

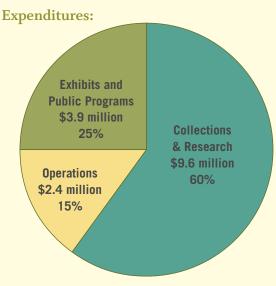


(As reported by Meltwater News Online Media Monitoring)

FY 2009-10 FINANCIALS



TOTAL: \$19 million*



TOTAL: \$15.9 million

SOCIAL MEDIA

The Museum expanded its Social Media communications initiatives as a way to connect with new audiences and provide news and information about the Museum's large number of ongoing activities.



2,600 fans & growing www.facebook.com/FloridaMuseum



675 followers & growing www.twitter.com/floridamuseum

www.youtube.com/FloridaMuseum

www.flickr.com/groups/floridamuseumofnaturalhistory/

^{*} Includes \$3.1 million in multi-year grant funds and gifts to endowments.



