Museum of Natural Science

Vol. 25 • No. 11 • Summer 2007

HUNTERS OF THE SKY JUNE 23 - DECEMBER 30, 2007

Children of all ages can fly high with Hunters of the Sky, a hands-on national traveling exhibit about Raptors—the great birds of prey.

For thousands of years, raptors have gripped the human imagination, being revered as divine messengers, prized as hunting companions, and celebrated as symbols of power. Visitors will explore the biology and ecology of raptors—eagles, hawks,

falcons, owls, and the reclusive condor—diverse and complex birds of prey whose survival is fundamentally linked to humans.

In addition to life-size dioramas that illustrate the majesty of raptor.

in their natural habitats, Hunters of the Sky offers



many interactive components to engross both children and adults: give a "hoot" in the 'hooting' booth (listen and mimic owl calls); compare a predator's wingspan to the reach of your own arms; or try your hand at a 'feeding puppet' used

to raise young captive-bred condors. Other exhibits include a wind tunnel that illustrates how birds fly, birds-eye-view footage shot from gliders, and an x-ray exhibit with radiographic images of injured birds.

Highlighting the exhibit will be periodic showings of live birds of prey each Saturday at 11AM and 2PM in the Museum's Rotwein Theater. Visitors can view these majestic birds up-close and learn fascinating facts from David Hall of the Wildlife Outreach Foundation. Live hawks will fly in a demonstration, giving visitors an appreciation of why these birds are such successful hunters of the sky.

The Museum's Fun Fridays and First Tuesday Lecture Series will also feature birds throughout the run of the exhibit.

SPECIAL EXHIBIT

Hunters of the Sky Meet Your Match

Meet Your Match JUN 23 - DEC 30, 2007



We share their same basic needs for survival. Come explore the wonders of these great birds of prey in our largest special exhibit yet.

Learn how they fly, how they see, and how they hunt.

Announcement

Jr. Duck Stamp State Winner



Catherine Cardneaux, a student at
Cathedral High School in Natchez, MS,
is the winner of the Best of Show award
in the 2007 Mississippi
Junior Duck Stamp Art Competition.
Ms. Cardneaux's acrylic paint
depiction of a Ruddy Duck
was submitted by her teacher,
Andreé Gamberi and competed for the
national awards at the Federal Junior
Duck Stamp office in Washington, D.C.

THE NATURAL NEWSLINE IS SPONSORED IN PART BY
THE JACKSON CONVENTION AND VISITORS BUREAU.





MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES AND PARKS Sam Polles, Ph.D.

Al Tuck

Robert Cook COMMISSIONERS

EXHIBIT

Norton McKeigney

Ray Terry

RESEARCH

Charles Knight

Melanie Howarter

Adrianne Clark

Mark Dugo

R.L. Jones, Ph.D.

Tom Mann

Scott Peyton

George Phillips

Richard Rummel

Kathy Shelton

Alison McCartney

Todd Slack, Ph.D.

Heather Sullivan

Ian Thompson

LaToya Turner

Andrew Whitehurst

Nicholas Winstead

Brad Young

William C. Deviney, Jr. John C. Stanley IV Bryan Jones Jerry Munro

> **MUSEUM STAFF** Libby Hartfield

ADMINISTRATION Mary Jenkins

Connie Gore Harold Garner

Shirley Hall Charles Jeffcoat

Brandy Jenkins

Fran Noone Mary Stevens

Clarence White AQUARIUMS

Karen Dierolf

Bryan Fedrick Mike Stegall

EDUCATION Georgia Spencer

John DeFillipo Joan Elder

Megan Ellis Rebecca Gruneberg

Yolanda Hawkins Isabel Kelly

Joseph M. McGee Angel Rohnke

Nicole Smith

Sarah Wheeless Corey Wright







This summer we hope you will join us to enjoy *Hunters of the Sky*, the largest exhibit the Museum has ever mounted!

Make sure to check out the calendar inside for Fun Fridays, exciting First Tuesday Lectures and teacher workshops that build on the raptor theme. Our Education Department has also developed a new teacher workshop, "Museum Resources", to help serve teachers statewide.

We thank the donors that are making this dynamic exhibit possible.

Looking forward to seeing you in the Museum.

In Memoriam

Recently our Museum staff was saddened by the loss of two long-time volunteers. These diligent supporters have devoted countless hours of service in essential Museum tasks, making our work more complete and our natural community a



Former Museum staff member and volunteer Betsy Wages passed away in November 2006. She was a faithful employee, volunteer, friend, and dedicated educator, who loved the Museum's nature trails and wildlife. Her family and friends have dedicated one of the beautiful stone benches along the nature trail in her honor and invite you to celebrate her rich life with nature.



Katherine Jones was a consistent and cheerful volunteer in the Museum's library. Every week she assisted librarian Mary Stevens in sorting and shelving books, special projects, and other library tasks. She will be remembered for her optimistic attitude, quick wit, and genuine friendship in support of the Museum and her co-workers.

Please join us in expressing heartfelt sympathy to the family and friends of Betsy and Katherine.

New Staff



Kathy Shelton is the new State Wildlife Grants program biologist. She will coordinate and conduct research and monitoring on wildlife in south Mississippi. Shelton earned her B.S. in Wildlife Sciences from North Carolina State University and her M.S. in Wildlife from Mississippi State University. She comes to us from the Wildlife Division of Mississippi Department of Wildlife, Fisheries and Parks, where she was the public lands biologist in south Mississippi.



The cheerful voice you hear upon calling the Museum these days is our new receptionist. Fran Noone. A native of Jackson, Fran is a lover of nature and has two children and two grandchildren who make visits to the Museum a favorite pastime.

Katfishin' Kids

Bring the kids and join us for a fun-filled day where children can learn the basics of fishing.

ne Mississippi Museum of Natural Science, the Mississippi Wildlife Federation, the Mississippi Department of Wildlife, Fisheries and Parks, and all local Wal-Mart Stores are working together to bring this free event to children ages 5-14.

Kids will learn what a fish is and become familiar with aquatic habitat. They will gain skills in knot tying, lure selecting, hook baiting,

and line casting. We'll stock the pond with catfish and let them try their hand at fishing. Each participating child will receive a goodie bag and free T-shirt while supplies last. Lunch will also be provided free of charge.

This event is free to all



Mark your calendars: June 2nd from 7AM to 10:30AM at Turcotte Lab off Hwy 43 at the Ross Barnett Reservoir.

and no equipment is needed so make plans to join us on June 2 for our annual Katfishin' Kids! For more information or to volunteer call 601-354-7303.



Quick Calendar



Katfishin' Kids SAT · JUNE 2 Turcotte Lab off Hwy 43 7AM to 10:30AM

> **Fun Fridays** 10_{AM} to NOON (except June 1)

Snake Day: Mississippi Style TUES · JUNE 5

10 aм to 3 рм Presentations at 10_{AM} and NOON

Fun Fridays Hands-on activities for everyone.

un Fridays are interactive, hands-on programs offered every Friday in June (except June 1) and July from 10AM to NOON.

Program topics coordinate with the Hunters of the Sky exhibit opening at the Museum on June 23rd. An adult must accompany children.

TOPIC

DAILO	10110
June 8	For the Bird
June 15	Bird Brains
June 22	Home Twee
	Home
June 29	Name that I

DATES

Sound Birds in the News July 13 Feathers, Talons, Beaks & Feet

July 20 Birds & Beyond Feathered Flocks

Snake Day: Mississippi Style Learn how to tell the

difference between venomous and non-venomous snakes.

information about our native snakes and their valuable place in the ecosystem. Live Mississippi snakes will be exhibited, with experts on-hand to answer your questions.

One hour lectures are scheduled at 10AM and NOON. There will also be displays of venomous and non-venomous snakes from 10 Aм until 3 рм. Speaker, Terry Majure, is Aquarium



iologist Terry Majure will de-mystify our much-maligned native reptiles - SNAKES! Learn the characteristics that will help you recognize the differences between the six venomous and 55 non-venomous snakes found in Mississippi. Majure will separate myth from reality and provide accurate

Coordinator for the Museum of Natural Science.

Snake exhibits are provided by Terry Vandeventer, Living Reptile Museum of Terry, MS.

2 Summer 2007 MISSISSIPPI MUSEUM OF NATURAL SCIENCE SUMMER 2007

A Rarely Seen Visitor

You're going to have to be diligent and patient if you want to see a Long-eared Owl, a rare sight in Mississippi.

r you can simply visit the congregation of Mississippi raptors perched together in the museum exhibit hall. This display provides an up-close view of native birds of prey that are found here year-round, as well as some seasonal visitors.





The long-eared owl, an occasional winter visitor to Mississippi, looks like a smaller version of a Great-Horned Owl, with the same distinctive ear tufts (only closer together). Bill Turcotte, one of our state's foremost conservationists, collected the specimen in the raptor display in northwest Hinds County on December 24, 1956. Author of *Birds of Mississippi* (University Press, 1999) with David L. Watts, Turcotte notes only seven recorded observations for the Long-eared Owl.

In addition to the Long-eared Owl, other rarelyseen winter birds in the display are the Short-eared Owl and the Golden Eagle. Summer may bring the Mississippi Kite and the Broad-winged Hawk within view, and in winter you may catch a glimpse of the Merlin, Northern Harrier, or Peregrine Falcon.

began his first scientific collecting at age 13, roaming the countryside



he began working as an assistant to Fannye Cook, the founding director of the museum. His career with the Game and Fish Commission spanned 43 years, during which he served in various administrative positions, including executive director of the agency. *Birds of Mississippi* is wonderfully colored by many personal accounts of his own sightings. Turcotte died November 7, 2000.

Museum Monitors Raptor Populations



Raptors, or birds of prey, include many different species with a wide variety of behavior patterns.

ome species feed primarily on rodents, fish, or carrion, while others depend on insects, snails, and other invertebrates. Hawks, eagles, and falcons are active during the day, while owls are typically active at night. Some species are present year-round in Mississippi, and some are here only during the breeding or non-breeding season.

Over 30 species of raptors have been recorded in Mississippi, although only a little more than half of these are regularly found in the state. The Mississippi Comprehensive Wildlife Conservation Strategy designates six raptors as "species of greatest conservation need". They include Osprey, Swallowtailed Kite, Bald Eagle, Southeastern American Kestrel (the subspecies of American Kestrel that breeds in the Southeast), Barn Owl, and Shorteared Owl. The major causes for concern include contaminants, shooting, and habitat loss.

The Museum is involved in conservation efforts on behalf of all of these species, and currently is occupied in monitoring efforts specifically targeted at Bald Eagles and Swallow-tailed Kites.

Bald Eagle populations declined drastically in the mid- to late 1900s due to diminished survival as a result of mistreatment by humans and a decrease in reproduction rates as a result of DDT contamination. The species was declared endangered by the *Endangered Species Act* and gradually began to recover. Thanks to the banning of DDT and other recovery efforts by numerous state and federal agencies and non-governmental organizations, Bald Eagle numbers have increased to the point that their status has been lowered to threatened, and they are being considered for removal from the Endangered Species List.

Nesting Bald Eagles have been monitored throughout the state since the early 1970s, and we currently observe, with the help of volunteers, 30-40 known active nesting territories.



Swallow-tailed Kites are beautiful birds that live in both North and South America. The birds found in the U.S. are here only during the breeding season and historically were observed in over 20 states. Due to human mistreatment and habitat loss, they are now restricted to small portions of five to six Southeastern states including Mississippi Bottomland hardwood forests along the Pearl and Pascagoula Rivers in Mississippi are important breeding areas for this bird, however we do not have a good estimate of how many stay in Mississippi during the breeding season. The Museum is partnering with Audubon Mississippi to survey south Mississippi for Swallow-tailed Kites in order to understand what their true numbers are in the state and learn what can be done to help protect them and their habitat.

Photo by Jennifer Coulso

MISSISSIPPI MUSEUM OF NATURAL SCIENCE Summer 2007

JUNE 5 · 10AM-11AM & NOON-1PM · LECTURES

Aquarium Coordinator, Museum of Natural

Learn how to recognize the

differences between the six

venomous snakes found in

provide accurate information

Mississippi. Majure will

about our native snakes

and their valuable place in

venomous and 55 non-

SPEAKER: Terry Maiure

Science, Jackson, MS

Ongoing

Come On Outside!

Visit the Museum's Native
Plant Garden and nature
trails to experience the
wonders of summer in
Mississippi. You'll find trail
markers and signs identifying
plants and habitats.
So come on outside and
discover the rich variety
of Mississippi flora!

Fish Feeding

Come meet some of our most fascinating aquarium inhabitants, every Tuesday and Friday at 10_{AM}, and Sunday at 2_{PM}.

Creature Features

These informal programs
—scheduled or spontaneous—
feature live or mounted
animals. Scheduled every
Saturday at 10_{AM} and 2_{PM},
Creature Features
make learning fun!

First Tuesdays

Naturalist Lecture Series
On the first Tuesday of the month,
the Museum offers lectures
addressing a variety of
natural science subjects.
Unless noted otherwise,
the lectures take place
from NOON to 1PM in the
Museum's Rotwein Theater.

Lectures are free to Museum
Foundation members or
regular admission visitors.
Please show your membership
card at the gate. Regular Museum
fee: \$5.00 for adults; \$4.00
for senior citizens; \$3.00
for children; \$2.00 for students
with teachers. Members also
receive a ten percent discount
at The Dragonfly Shoppe.



JUNE 2 · SAT · 7AM-10:30AM · EVENT Katfishin' Kids

JUNE 5 · TUE · 10AM-3AM · EVENT

Live Mississippi snakes on

to answer your questions.

exhibit with experts available

Snake Dav

Located at Turcotte Lab off Hwy 43 at the Ross Barnett Reservoir. Free for children 5-14 to teach them about fishing. Parents invited, and equipment is provided. For information, call 601-354-7303.



the ecosystem.

JUNE 15 · FRI · 10AM-NOON Fun Friday Bird Brains

JUNE 19 · TUE · 10_{AM}-12:00_{PM} Volunteer training for Hunters of the Sky exhibit Learn about raptors and

how you can be a part of the *Hunters of the Sky* exhibit.

JUNE 22 · FRI · 10AM-NOON Fun Friday Home Tweet Home



JUNE 23 · SAT · EXHIBIT PREMIERE Hunters of the Sky

JUNE 29 · FRI · 10_{AM}-NOON Fun Friday Name that Bird Sound



JULY 3 · TUE · NOON-1PM · LECTURE RAPTORS GALORE!

SPEAKER: David Hall Master Falconer and Director, Wildlife

Master Falconer and Director, Wildlife
Outreach Foundation, Jackson, MS
Eagles, hawks, falcons, owls,
kites, osprey and harriers are
all raptors! Their beaks are
hooked and they seize and
kill their quarry using
powerful feet and sharp
talons. David Hall's talk
will focus on conservation
education about raptors and
how scientists use raptors as
barometers of environmental

health. He uses these

magnificent birds as

ambassadors to teach about all living creatures and their conservation needs.
Live raptors will be highlighted in the program.

JULY 6 · FRI · 10_{AM}-NOON Fun Friday Birds in the News

JULY 10-11 · TUE-WED · \$10
Wild About Birds

Teachers earn 1.0 CEU credits via this Project WILD workshop. See column at right for details.

JULY 12 · THURS · 9AM-3:30PM · \$10

Project WET Teacher Workshop

Teachers earn .6 CEU credits.

See column at right for details.

JULY 13 · FRI · 10AM-NOON Fun Friday Feathers, Talons, Beaks & Feet

JULY 20 · FRI · 10AM-NOON Fun Friday Birds & Beyond

JULY 24 · TUE · 9AM-3:30PM · \$10

Museum Resources

Teacher Workshop

Teachers earn .6 CEU credits.

JULY 25 · WED · 9AM-3:30PM · \$10

601.354.7303

for information.

See column at right for details.

Project Aquatic WILD

Teachers earn .6 CEU credits. See column at right for details.

JULY 27 · FRI · 10_{AM}-NOON Fun Friday Feathered Flocks



AUG 7 · TUE · NOON-1pm · LECTURE NORTHERN SWALLOW-TAILED KITE RECOVERY

SPEAKER: Jennifer Coulson PhD, Ecology and Evolutionary Biology, Presi dent, Orleans Audubon Society, Louisiana. Dr. Jennifer Coulson will present findings from her long-term study on the population ecology of the northern Swallow-tailed Kite, a subspecies whose limited numbers are causing concern. She will talk about factors that appear to be limiting the population, as well as life-history traits and social behaviors that may be hindering recovery. It is estimated that fewer than 2,500 breeding adults remain of the northern subspecies.



SEPT 4 · TUE · NOON-1PM · LECTURE CALIFORNIA CONDORS

SPEAKER: Jesse Grantham

California Condor Program Coordinator, Hopper Mountain National Wildlife Refuge Complex, USFWS, Ventura, CA One of the world's rarest and most imperiled birds, the California Condor, was rescued from the brink of extinction by captive breeding and release, but still faces great challenges. From only 22 condors left in existence, their numbers have risen to 289 this year. They now fly free in central and southern California, in Arizona and in Baja, Mexico. They are also beginning to reproduce in the wild. Jesse Grantham, currently the coordinator of the condor project, also worked on condors in the early days of the recovery effort and will update us on their current status and future challenges.

SEPT 6 · THURS · 4PM-7PM **Back to School Night**Teachers of all grades
will collect resource
materials from the Museum,
as well as other agencies
and organizations.



OCT 2 · TUE · NOON-1PM · LECTURE

NESTING ECOLOGY & SIBLING
BEHAVIOR OF RED-SHOULDERED HAWKS

SPEAKER: Jim Bednarz
PhD, Professor, Wildlife Ecology, Arkansas
State University, Jonesboro, AR
This presentation will
summarize research on the
densest nesting population
of Red-shouldered Hawks
ever documented (nearly 7
nests/square mile). The study
involved a collaborative
research effort by Kathleen
Townsend and Jim Bednarz
done in the St. Francis

Sunken Lands of northeast-

Townsend and Bednarz

ern Arkansas. For this work,

experimentally provided supplemental prey to 10 nests and studied the behavior of nestlings and adults by mounting video cameras at nests.

OCT 27 · SAT · 10_{AM}-3_{PM}
Slither, Crawl & Fly
Join the Museum to lea

Join the Museum to learn about creatures such as snakes, spiders, birds, and bats.



NOV 6 · TUE · NOON-1PM · LECTURE
OSPREY MIGRATION THROUGH
NORTH AMERICA

SPEAKER: Mark Martell
Director of Bird Conservation, Audubon Minnesota, St. Paul, MN
Using satellite monitored
radios, scientists are able
to track Ospreys and other
raptors from their breeding
grounds in the United States
to wintering areas in South
America. Learn the details of
when they leave, where they
go, and how they get there.

Project WILD

(Wild About Birds) is a 10 hour workshop offering 1.0 CEU's:

July 10 4PM-9 PM &

July 11 9AM-3:30PM.

Teachers

WET and WILD

Opportunities

for Teachers

The Museum will offer

two environmental education

programs, Project WILD and

Project WET. Workshops cost

\$10.00 each. Mississippi

College will offer CEU credits

for an additional fee.

Project WET

on July 12 from 9_{AM}-3:30_{PM} offers .6 CEU's.

Project Aquatic WILD on July 25 from 9AM-3:30PM

offers .6 CEU's.

Museum Resources a new teacher workshop will be conducted July 24 from 9:30_{AM}-3:30_{PM} and will offer .6 CEU's.

Learn how to schedule a field trip, check out a resource kit, and take a behind-the scenes tour of the Museum and our Research Department facilities. Please bring a lunch to the workshops. Contact Georgia Spencer at 601-354-7303 for information and to register.

In order to schedule
a workshop or field trip,
reserve a resource kit, or
learn more about how our
Museum can help meet

601.354.7303

PRESCHOOL: The Museum's "hands-on" Preschool Discovery Room is designed specifically for pre-kindergartners, ages 3-5.

Visitor Access

PRESCHOOL CHILDREN MON-FRI 1-4PM SAT 9:30am-noon & 1-4PM

TIME FOR TWOS (AGES 2 & UNDER)
2nd TUE 1-4PM

STORY TIME (AGES 3 TO 5)

SUN 1-4PM

WED 1:15, 2:15, & 3:15 pm (AUG-MAY)
TUE AND THU 10:15 & 11:15 am (JUNE-JULY)

Reserved Group Access

MON-FRI 9, 9:45 & 10:30am (AUG-MAY)
WED AND FRI 9, 9:45, 10:30am (JUNE-JULY)

JULY - AUGUST CLASSES

"Who Needs Wings! I Have Eight
Legs!"

Children will understand that spiders should be respected and not feared. They will appreciate the diversity and uniqueness of spiders and their webs, as well as their usefulness in insect control.



SEPTEMBER - OCTOBER CLASSES

"Rise and Shine - Time to Eat!"
(a study of day/night animals)
Children will understand that many animals
look for food during the day; others seek food
during the night. They will note that some
animals hunt at twilight.

NOVEMBER CLASSES

"Love that Salt Water!"

(a study of marine animals)
Children will appreciate the diversity of marine animals. They will become familiar with ocean mammals, invertebrates, and fish.

The Preschool Room is open when a staff member or volunteer is available. The schedule is subject to change. Please inquire.



6 Summer 2007

Hunters Down Below

Birds may be the supreme hunters of the skies, but snakes are master hunters on the ground.

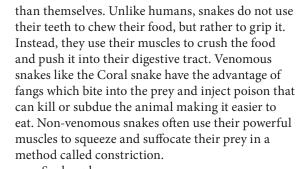
uch-maligned and very misunderstood, snakes are a very important part of the ecosystem. Visit the Museum terrariums and aquariums to see a number of Mississippi's native snake species in natural habitats.

Mississippi's venomous snakes include Coral snakes and these pit vipers: Copperhead, Cottonmouth or Water Moccasin, Canebrake or Timber Rattlesnake, Pygmy Rattlesnake, and the Eastern Diamondback Rattlesnake. Most venomous snakes have markings or physical characteristics that can be used to tell them apart. Coral Snakes may resemble non-venomous Milk Snakes or Scarlet King Snakes, but their color pattern of red and yellow bands next to each other make it easy to tell the difference. Pit Vipers have thicker bodies than other snakes, and generally have short, slender tails and a head that is much wider than the neck. The largest venomous snakes that occur in Mississippi are the Diamond-Back Rattlesnake of southern Mississippi and the Timber Rattlesnake, which is prevalent throughout much of the state.



Besides their appearance, snakes have other unique attributes that more specifically help them find their food. In order to hunt, snakes that live above ground are equipped with crystal-clear vision and good depth. Also, with the use of heat sensing organs, some snakes, like the Cottonmouth, can even hunt prev at night. The name "pit viper" comes from the heat sensitive pit between the eye and nostril on both sides of the head. In addition, snakes also use their tongue to sniff out their surroundings.

Snakes prey on all types of species ranging from insects to rodents to fish and even other snakes. With jaws that can expand up to 150 degrees, snakes have no trouble preying on animals larger



Snakes play an important role in our environment by helping regulate the population of moderate size rodents including squirrels, mice, rats, shrews, and even birds. The



Corn Snake, known as "the farmer's friend", got its name from the cornfields in which it is most commonly found—hunting the mice that eat the farmer's corn.

Mississippi is also home to a tremendous variety of water snakes. Not all snakes found in water are the venomous Cottonmouth or Moccasin. Most are water snakes such as the Diamond-Back Water Snake, Broad-Banded Water Snake, Midland Water Snake, Yellow-Bellied Water Snake, or the Mississippi Green Water Snake. These snakes



hunt aquatic animals such as fish and amphibians. There are even three species of water snakes that hunt and eat crayfish.

The best way to overcome any anxiety about snakes is to learn more about them. Visit the Museum to see some of these earthbound hunters and learn how important they are to our survival. Don't miss our most unusual snake display—a two-headed Grey Rat Snake!

The Call of the Wild

Many types of raptors are seen and heard by visitors to our nature trails.

ome of these birds call our woodlands home, but others are occasional visitors.

Barred owls are large birds that roost in the cypress sloughs behind the Museum and near Mayes Lake. Visitors can hear owls in these two locations "talking," in a distinctive pattern of hoots (hoo - hoo - hoohoo). Some people remember the call as "Who cooks for you? Who cooks for you all?" One owl will call another, and soon receive a reply. The Great-horned Owl and the Eastern Screech Owl are less commonly seen. The Great-horned Owl's call is a deep "whoo" that is repeated. The tiny Screech Owl's call is an eerie whinny or a long trill of one note.

Several raptors may only be seen soaring over the Pearl River and our forest, catching thermal uplifts. These include vultures, large hawks, and occasionally kites. Visitors have seen two types of vultures: black vulture (buzzard) and turkey vulture. The Black Vulture has pale whitish wing edges and

a shorter tail than the Turkey Vulture, which has silver patches on the lower wing surface.

The Red-tailed Hawk is a frequently heard hawk, with its piercing single "tseeearr" call. The Red-shouldered Hawk is another often heard species

with a repeated cry of "keeahh." It is identified by translucent crescents of white under its wings and a tail with alternating bands of black and white. The Broad-winged Hawk also has a black and white banded tail, but has a broad black border to its wings. The Swallow-tailed Kite with its distinctive white underside, black wings, and deeply forked tail, can be seen catching thermals over the lower river. The Mississippi Kite is gray with a black tail and whitish head, and may be seen catching insects along Eubank's Creek.







Two small hawks are frequently seen near the

Museum: the Sharp-shinned Hawk and Cooper's

Sharp-shinned Hawk can be distinguished from the

Cooper's Hawk by its squared off corners of its tail

Hawk. Both prey upon the birds that come to our bird feeders in the Museum exhibit area. The

Join experienced birders and members of Jackson Audubon Society for a walk on the wild side. Children must be accompanied by parents; Unaccompanied young people must be 15 years of age. Enter through the Mayes Lake entrance off Lakeland Drive and meet in the parking lot of the

For more information, call Mary Stevens at 601.956.7444.



picnic/pavillion area.



Steadfast Supporters

\$100,000-\$200,000

Abe Rotwein Family The Chisholm Foundation Deposit Guaranty/AmSouth Foundation Ergon **Bryant Mather** Mississippi Museum of Natural Science Foundation

U.S. Fish and Wildlife Service

\$50,000-\$100,000

BellSouth Magalen O. Bryant & Tara Wildlife Management

> Chevron Entergy

Environmental Protection Agency Friede Goldman

Gertrude C. Ford Foundation

Richard McRae, Jr. Family

Mississippi Chemical Corporation

Mississippi

National Fish and Wildlife Foundation/ Shell Marine Habitat Program

be impossible.

Gannett Foundation/

The Clarion-Ledger

Phil Hardin Foundation Mr. & Mrs. Dudley Hughes

Irby Companies

Farm Bureau Federation

Dr. & Mrs. Steve Zachow

Without loyal patrons and sponsors, our work would

Special thanks go to the following for their support

of the current exhibit: "Hunters of the Sky"

Regions Bank Gertrude C. Ford Foundation

> Merrill Lynch Nissan of North America, Inc.

Dudley J. Hughes

Mr. & Mrs. Alex Alston Jackie & Avery Rollins

Joye & Scott Steele Magalen O. Bryant Brunini, Grantham,

Grower & Hewes Chris & Steve Zachow Deborah & Hunter Dawkins

\$25,000-\$50,000

Blue Cross Blue Shield Bureau of Land Management Delta and Pine Land Company Georgia Pacific Corporation International Paper Foundation Merrill Lynch Mississippi Power Company

Mississippi Valley Gas Molpus Woodlands Group Paul Benton

Plum Creek Foundation **Pruet Companies** Trustmark National Bank

U.S. Department of Transportation U.S. Forest Service Mr. & Mrs. William I.

Van Devender Walker Foundation Dr. & Mrs. Julian Wiener Yazoo Mississippi

Delta Levee Board

\$10,000-\$25,000

The Armstrong Foundation BancorpSouth Foundation Feild Cooperative Association Howard Industries, Inc. **Jackson Convention** & Visitor's Bureau Mississippi Arts Commission Mississippi Forestry Association Mississippi Forestry Foundation National Geographic Society Education Foundation Nissan of North America, Inc. Regions Bank

Soterra LLC Sprint PCS/US Unwired Weyerhaeuser Company Foundation

When you join the MMNS Foundation, you get so much more than just member benefits...

☐ Sustaining Member (\$1,000 *or more*)

☐ Corporate Member (\$5,000 *or more*)

You get the satisfaction of knowing you are protecting our state's rare and endangered species, supporting important biological research, and educating our young people. As a Foundation member, you will help further our core mission of promoting the understanding and appreciation of Mississippi's biological diversity. Your contribution will also enable us to enhance and expand the Museum's work well into the future.

MEMBERSHIP CATEGORIES

- ☐ Individual (\$35) ☐ Family (\$60)
 - □ Patron (\$500)
 - ☐ Benefactor Member (\$750)

□ Donor (\$250)

☐ Friend (\$100)

Other donor/sponsor opportunities are available. Call 601.354.7303

CITY/STATE/ZIP_

Great Museums Are Built on Strong Foundations. Become part of that Foundation today.

If children are to be included in this membership, please check one of the following (not valid for Individual Memberships). This membership is for:

- ☐ Parents and their children under age 18
- ☐ Grandparents and up to four grandchildren under age 18
- ☐ Other adult family members and up to four children under age 18

Relationship to children: □ Aunt/Uncle

☐ Guardian If you checked one of the above, please list name and date of birth of each child. (may attach additional pages)

The Straddlefork Foundation

Wild Turkey Federation

Each month the Museum store offers

a thoughtful selection of gift items that coordinate with current exhibitions and educational programming.

Featured this summer:



RAPTORS OF NORTH AMERICA **JIGSAW PUZZLE (550 PIECES)** \$15.99



BIRDS OF PREY "AN INTRODUCTION TO FAMILIAR **NORTH AMERICAN SPECIES"** (POCKET NATURALIST) \$5.95

(Add \$3.50 shipping and handling for mail orders)

> Foundation members receive a 10% discount.

SHOPPE HOURS MON-SAT 9:00AM - 4:00PM SUN 1:00 - 4:00_{PM}

The Dragonfly Shoppe is a Mississippi Museum of Natural Science Foundation sponsor.

New Members/Donors

Sustaining Betsy A. Creekmore

Deborah & Hunter Dawkins Friend Edie Dunn

Lyle E. Nelson Eddie Pope Grace & George Smith

Risa Webb Aleithawe Heidi Allen

Melissa & Jerry Angela & Robert Calvin & Vivian Brown Barbara Brunson Celia Burnham Shelle Cedotal

Tracy Chippendale Tim & Daisy Crawford Angie Davis & Jamie

Linda Dove R.B. Ellison, Sr. Grace Ensz Mark & Stephanie Farrior Deidra Floyd

Tanya Fritz Jack & Ashley Gram Kathy Gregg James P. Grissom

Brian & Leah Harris William R. Hawkins Thomas & Courtney

James & Jamie Hoove Mark Hutchison Nzinga Wms-Jupiter & Omodare Jupiter

Hewitt

John & Marty Kwasny Lori Marshall Sherry & Marvin

Mignonne Mitchell Carla Modrak Sara Whelan Morgan Stenhanie Oliver Tim & Noralyn Perkins David Revnolds Bob Richardson Timothy J. Riggs

Shannan & Christos Schwartz Patrick & Anne Severson Elizabeth Shields Dee P. Spencer D. Starks & R. Starks Scott & Joye Steele

Stewart & Vicki Swayze Laura Uecker Andrew & Karen Walling Stephanie & Cory Xueyuan Wang &

Hunters of the Skv **Exhibit Donors** Regions Bank Gertrude C. Ford Foundation

Merrill Lynch America, Inc.

Grower & Hewes Chris & Steve Zachow Dawkins Patterson

Deborah & Hunter Melissa & David Janet and Luther Ott Charitable Fund of the Community Foundation of Greater Jackson

Deviney Construction Company Nora Frances & Vaughn McRae

Dick Hall

Rosalie B. Rotwein

Dr. Ollye B. Shirley

Newt P. Harrison

Individual Joseph N. Goodell John Gwaltney Bobby Locke Jim Wingrove

Hap & Hilda Owen Patagonia/Buffalo Drs. John & Connie Robert Smith, M.D.

Robert & Eleanor Nissan of North Neil & Karen lan A. Allinder Dudley J. Hughes Barbara Austin Buford & Susan Clark Mr. & Mrs. Alex Alston Jackie & Avery Rollins The Clay Firm Jove & Scott Steele John & Judith Davis Magalen O. Bryant Richard & Joyce Brunini, Grantham. Dr. Edgar Draper Halla Jo Ellis

Dr. John Wofford J. Kane & Betty Ditto John & Ann Fournet Eileen Giudice Sean Wesley Ellis William A. & Alice Harper Betty Hays Thomas & Courtney J. H. Hines **Brooks Mosley** Brenda F. Hyde N & W Constructio Daniel & Pamela Company

Dr. & Mrs. Frank M. Wiygul, Jr. John & Jodi Nabors Richard Benton

Other

Chandler

Mississippi

Department of

Heather Murray

Biological Sciences

Contributers

Richard & Suzanne

University of Southern

Ioan Marie Kave

Christine Liberto

Chester O. Martin

Dick Mason III

Mark & Sharon

Jennie McIntosh

Mr. & Mrs. Mike

Dr. & Mrs. Brantley

Barry & Barbara

Emily & Tim Smith

Robby & Martha

James & Jeanne

W. Scott & Mary Anne

Charles & Sandra

Mr. & Mrs. Don Wes

Toombs

Tucker

Welch

West

Charles & Emily Clarl

McCreery

McNames

B. Pace

Betty T. Duckworth Arthur Finkelberg C.A. Hatchell, Jr. Education Outreach

is the lifeblood of our Museum. providing man-power, financial Sponsors assistance and moral support. The Foundation Board of Directors **Entergy Charitable** invites you to join today! Janet and Luther Ot of the Community Foundation of Greater Jackson The King's Daughters

Walker Foundation George Allen Matt Holleman III Yazoo Mississippi Alex Alston, Jr. Janice Larson Delta Levee Board

Kevin Caldwell Bobby Locke Betsy Creekmore Jennie McIntosl Opal Dakin John Rings

Marianne Dempsey Avery Rollins Theo Dinkins III Rosalie Rotwein Halla Jo Ellis Ollye Brown Shirley

MISSISSIPPI Museum of

Natural

Science

FOUNDATION

The Mississippi Museum

of Natural Science Foundation

OFFICERS

Chris Zachow

Alex Alston, Jr.

Janice Larson

BOARD OF DIRECTORS

Sean Wesley Ellis Catchings B. Smith Dick Hall Sheila Smith Dick Harding Scott Steele

Libby Hartfield Chris Zachow

BENEFITS OF MEMBERSHIP

All members enjoy free admission to the Museum, invitations to members-only events, a subscription to our newsletter, and discounts at the Dragonfly Shoppe. Higher levels of membership receive additional benefits, such as public recognition of their contributions, additional admission passes, and even the private use of Museum facilities. And all memberships entitle you to free admission to more than 200 other museums nationwide through a

> Call 601.354.7303 for more information

reciprocal membership program.



Peter Kuchirka reaches 1,000-hour milestone Congratulations to Peter Kuchirka for reaching the 1,000-hour milestone

Volunteer Notes

of volunteer service. Peter began volunteering at the Museum in March of 2005. A former volunteer with the Vertebrate Paleontology Section at the Carnegie Museum of Natural History, Peter was trained in the molding and casting of fossil bones.

Volunteering with MMNS Paleontology, he has created replicas of our most valuable and rare fossils, from sea urchins to rhinoceros leg bones. Peter has also cleaned, repaired, and reconstructed many fossil specimens that were otherwise unusable. Peter's name will be added to the donor recognition board in the Museum lobby with our appreciation and sincere thanks!



2148 RIVERSIDE DRIVE JACKSON, MS 39202-1353

DEPARTMENT OF WILDLIFE, FISHERIES, AND PARKS

The mission of the Mississippi Museum of Natural Science is to promote understanding and appreciation of Mississippi's biological diversity through collections, research, scientific databases, education, and exhibits; and to inspire the people of our state to respect the environment and to preserve natural Mississippi.

Non-Profit Org.

U.S. Postage

PAID

Jackson, Miss.

PERMIT NO. 932

DON'T MISS THE **GRIPPING ACTION** THIS SUMMER

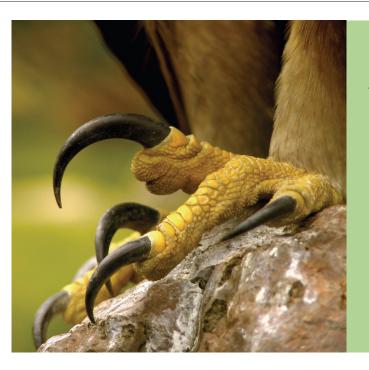
The *Hunters of the Sky* special exhibit will feature:

LIVE Raptors

Each Saturday

11:00ам & 2:00рм

The Museum's Rotwein Theater



MUSEUM HOURS **ADMISSION**

MON-FRI 8:00am to 5:00pm

Adults: \$5 Children Under 3: FREE SAT 9:00am to 5:00pm

Children 3-18: \$3 School Groups of 10 or more: \$2/person

The Mississippi Museum of Natural Science is located on I-55 at Lakeland Drive -within LeFleur's Bluff State Park-



From Interstate-55, take Exit 98B heading east on Lakeland. Turn south onto Highland Drive and left at the Park entrance. Pay admission at the gatehouse.

SUN 1:00 to 5:00pm

Senior Citizens 60 and over: \$4

Members: FREE