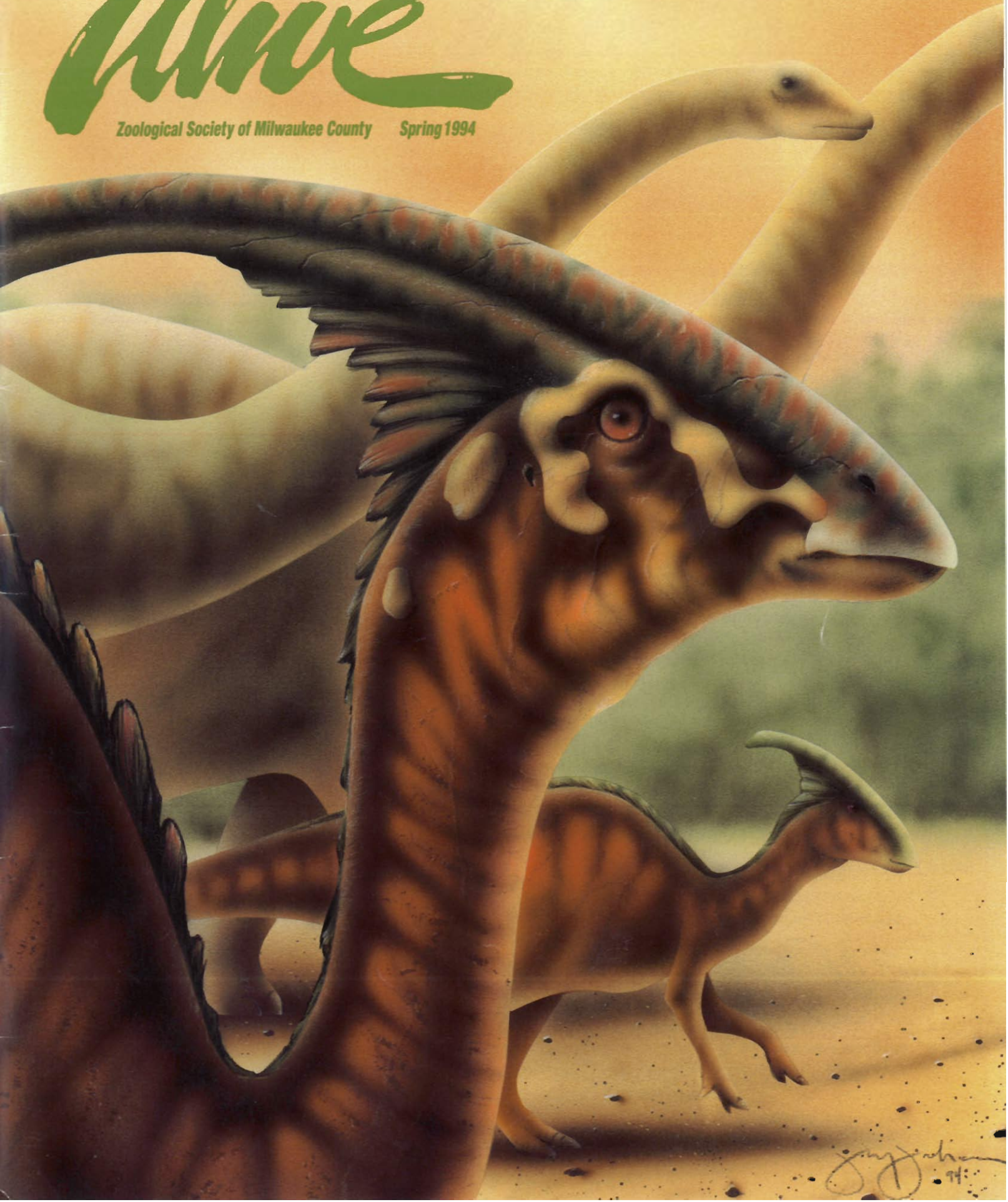


Alive

Zoological Society of Milwaukee County Spring 1994



John D. Schwan
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Here and everywhere, a growing human population, development pressures and conflicts over natural resources pose ever-increasing threats to the environment. To help meet the challenges, the Zoological Society has taken a leadership role in global efforts to conserve nature, backing innovative grass-roots conservation projects like the ones featured in this magazine.

On page 7, you'll read about how the Zoological Society is helping to build local support in Belize for the area's immense—albeit threatened—tropical biodiversity. We've teamed up with the Belize Zoo & Tropical Education Center to encourage zoo visitors to take up conservation practices and make them a part of their day-to-day lives. To reinforce our efforts there, we're supporting the distribution of thousands of posters featuring endangered Belizean wildlife. The posters call on anyone who sees them to work to preserve the country's magnificent species.

In this issue, we also highlight the impressive work of Zoological Society Wildlife Conservation Grant award winner Doug Mason. His research on Venezuelan forest birds should offer Venezuela's logging industry recommendations on how to modify its practices to conserve some of the last birds of their kind in the world. Doug joined several other grant winners at the Society's first Conservation Symposium in February, honoring the students' important work in conservation biology.

Finally, this spring, the Society is helping to bring back to the Zoo species that went extinct millions of years ago. We'll be giving you an up-close introduction to all the dinosaurs featured in this magazine at the May members-only premieres of Destination Dinosaur. Enjoy!

Gil Boese, President
Zoological Society of Milwaukee County



The mission of the Zoological Society is to support the Milwaukee County Zoo, educate people about the importance of wildlife and the environment, and to take part in conserving wildlife and endangered species.

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ON THE COVER
These Parasaurolophuses and Apatosaustruses represent two of the 10 different dinosaur species in Destination Dinosaur, a new exhibit of life-size mechanized dinosaurs coming to the Zoo in May. Painting by Jay Jochem
Zoological Society Artist endowed by Gretchen and Andrew Dawes Endowment, Inc.

Alive

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FEATURES

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At a time when environmentalists are locked in battle with industry over birds in the U.S., a UW-Madison student is working toward achieving a balance between the two interests in Venezuela.

8 DESTINATION DINOSAUR

Set your watch back millions of years for this sneak peak at the prehistoric creatures to inhabit the newest exhibit at the Zoo...Destination Dinosaur.

14 CARING FOR CRITTERS

Thousands of children from southeastern Wisconsin schools are learning to respect and preserve urban wildlife through this innovative program presented by Pick 'n Save and *The Milwaukee Journal*.

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VANISHING in VENEZUELA



This story was inspired by a presentation on "Tropical Forestry and the Conservation of Venezuela's Forest Birds" by Wildlife Conservation Grant recipient Douglas Mason. Mason, a Ph.D. candidate at the University of Wisconsin-Madison's Department of Zoology, presented his research at the Zoological Society's Conservation Symposium, Feb. 26.

Let it be said up front. This is not just another story about the clash of ideas between environmentalists and industry over endangered species. It's about the dedicated work of one man, who's situated himself between the two, trying to strike a balance between forest production and forest conservation.

His work takes place in the Imataca Forest Reserve in eastern Venezuela—humid tropical rainforest country, home to tropical humid forests containing up to 90 percent of the world's biological diversity, thanks to 65 million years of undisturbed evolution.

But over the past 20 years, the Venezuelan government has stepped up an ambitious program to develop the nation's forests, recruiting local people to log vast tracts of land and plant strips of trees in cleared areas (linear plantations)—for just three dollars a day.

Though rapidly changing the face of Latin America's land, the concessionaire (the company responsible for logging the forest) can't touch land designated as national parks. But with only 1.7 percent of

all land designated as parks, even they may be too small to conserve the rainforest's diverse species over the long term. "Parks are the backbone of most conservation strategies," said Doug Mason, a two-year Wildlife Conservation Grant recipient. "But to conserve biological diversity, they need help from areas that aren't strictly protected."

In an attempt to find an economically and biologically balanced answer, Mason set out to gauge how tropical forestry practices affect birds living in the forest's



Above: The contrast between this single tree stump and its lush forest backdrop represents huge logging potential in the Imataca Forest Reserve.

Left: Doug Mason's remote field camp, 20 miles from his base camp, gives him and his field assistants temporary shelter and ready access to their primary forest laboratory.

forest with no electricity, no bath, just four walls and a corrugated tin roof—that he would call home for the next couple of years.

At 5:00 every morning, Mason rose from his mosquito net-shrouded bed; checked his rubber boots for errant critters; donned his cotton shirt and pants; packed his bird-catching equipment, granola, powdered milk and maybe some fresh fruit; grabbed his field guide and hiked...deep into the forest.



Scythebills are among the understory inhabitants of the Imataca Forest.

Still in blackness, Mason unpacked his equipment and began the labor-intensive task of opening 20 to 30 near-invisible black nylon mist nets—about the size of volleyball nets—between saplings that doubled as poles.

Dawn broke, foliage turned from black to green, and Mason and his assistants started visiting each of the nets every 45 minutes to check for captured birds and record data, continuously. "Red-billed Scythebill...White-plumed Ant Bird...Long-tailed Hermit." Mason called to his assistant as he removed the birds from the net, weighed, sexed, banded and released them.

At 2 p.m., they folded their nets, packed their gear and headed back to camp, sometimes not arriving until 5 p.m. Uncomfortable in their muddy field clothes, they looked forward to bathing in a tropical stream, a dinner of chicken stew and rice, some broken conversation under the stars with Venezuelan campmates, and falling asleep to the deep hoots of Spectacled Owls and ethereal whistles of quail-like Tinamous. "The love of the forest kept us going," Mason said.

After two field seasons of research in four different types of forest—primary, logged, logged with linear plantations, and

swamps—Mason and his team caught, identified, banded and released more than 3,800 birds representing 117 species.

Doves, hummingbirds and finches—birds not considered "conservation priorities"—benefited from logging and will likely survive in disturbed areas as long as forests are not completely cleared. "But the losers far outnumber the winners," said Mason, listing antbirds, flycatchers, woodcreepers, ovenbirds and thrushes among the families most negatively affected by logging.

Birds suffered the worst effects in areas that had been logged, cleared in strips and then planted with linear plantations. "The message here is to respect nature's process of regenerating a forest," Mason said. "Since linear plantations are contrary to these processes, they're expensive to create and maintain, damage surrounding forest, and promote weed growth."

To eliminate these plantations from the

continued on next page

GEOGRAPHY



Venezuela, located in tropical South America, is bordered by the Caribbean Coast, divided by the Orinoco River, and is at the northern extension of the Andes Mountain range. The country's huge expanses of forest are among the world's largest reservoirs of biological diversity.



Doug Mason bands a small understory forest bird caught in one of the researcher's mist nets.



Venezuelan Forest Service's management scheme is Mason's top recommendation to Venezuela's conservation organizations, private logging companies and the forest service. "It would save Venezuelans money, produce more valuable wood and conserve more biological diversity."

He asks that representatives from these groups instead consider focusing conservation efforts on preserving swamp forests—areas of little economic value but of great importance to the diverse, sensitive populations that call them home.

"Establishing protected swamp corridors may not only save bird species but may reduce local extinction of mammals as well." Mason said, referencing the research of Mason's colleague and Venezuelan friend, Jose Ochoa. Ochoa's research showed that conservation corridors reduced the local extinction of mammals by 75 percent.

Trying to find ways to earn a living off of the forest while still maintaining its ecological functions, the Venezuelan Forest Service, forest companies and other interested groups have their ears open to Mason's recommendations. Because until they find an answer, the logging suspension issued last August to protect the Imataca Reserve's forests may become more than just temporary.

Students like Doug Mason are making a difference in preserving endangered species around the world through the Zoological Society's Wildlife Conservation Grant program. Through the program, the Society awards about \$20,000 in research grants every year to Wisconsin-based students pursuing advanced degrees in wildlife conservation.

Conservation Symposium

Making a Difference: Students in Wildlife Conservation



Wildlife Conservation Grant recipient Joel Whitehouse shows symposium-goer Jean Strelka artifacts from animals living in Door County's Brussels Hill Pit Cave 600 to 1,800 years ago as part of his poster presentation on the paleontology of the area. Whitehouse used the Zoological Society's grant to purchase research equipment.

Recognizing that science and field biology are the first, vital steps in saving wildlife and native habitat, the Zoological Society of Milwaukee County established in 1992 a Wildlife Conservation Grant program awarding funds to Wisconsin graduate students doing research in conservation biology. Each of the 17 Wildlife Conservation Grants awarded to date has enabled the Society's conservation scientists to spend time in the field, learning about ecosystems and developing strategies for long-term survival of species.

In February, the Society acknowledged their work at a Conservation Symposium, featuring a keynote address, "How Conservation Biology Can Make a Difference," by Dr. Stanley A. Temple, Beers-Bascom Professor in Conservation at UW-Madison's Department of Wildlife Ecology and past president of the Society for Conservation Biology.

Here's a look at some of the students' research projects:

- Formulating conservation strategies for the endangered Grenada Dove in the West Indies and the Northern Blue Butterfly in Wisconsin
- Breeding and winter ecology of the Dickcissel in Venezuela
- Analyzing bobcat populations in Wisconsin
- Reconstructing a genetic history of Great Lakes fishes as a tool for conservation and restoration using DNA from museum specimens
- Building ecological models for conservation: wildlife translocations

Almost every issue of *Alive* features the outstanding work of the Zoological Society's Wildlife Conservation Grant winners. If you're interested in learning more about the Society's grant program, call Gay Reinartz, conservation coordinator for the Zoological Society, at (414) 256-2512 or (414) 675-6318.

To Benefit Belize

"Imagine how empty the world would be without the color, the sounds and the many benefits that each plant and animal gives to us," ask Belizean educators of some of the youngest visitors to the Belize Zoo and Tropical Education Center. "Help protect them. Belize is special and you can help keep it that way!"

Realizing that local residents, especially children, can play an important role in the survival of Belize's wildlife—much of it endangered—the Belize Zoo has made on-site education about wildlife conservation and animal adaptation a priority. Last year, the Zoo's education department reached more than 10,000 students.

With funding from the Zoological Society of Milwaukee County, Belize Zoo Education Director Myrtle Flowers is supplementing her programs with a "My Visit To the Zoo" activity book for children and promoting the Zoo's education efforts through an education brochure.

The workbook, containing at-the-zoo, in-class and at-home activities, invites kids to discover why animals and plants are important parts of the place where they live.



"We're trying to motivate children to take pride in Belize's rich natural heritage," Flowers said. "Before the Zoological Society got involved in supporting our efforts, as many as 40 students would share the same activity book."

Society support of the Belize Zoo's education brochure also is helping the Zoo spread the word on its programs to every teacher in Belize. The brochure not only

OUR NATIONAL SYMBOLS



A GUIDE TO CONSERVATION AND PRESERVATION THE BELIZE ZOO AND TROPICAL EDUCATION CENTER

contains information on programs the Zoo offers but also a chance for teachers to apply for small grants covering the expense of a bus trip to the Zoo. Grants are only awarded after teachers submit a statement of their interest in participating in a zoo education program.

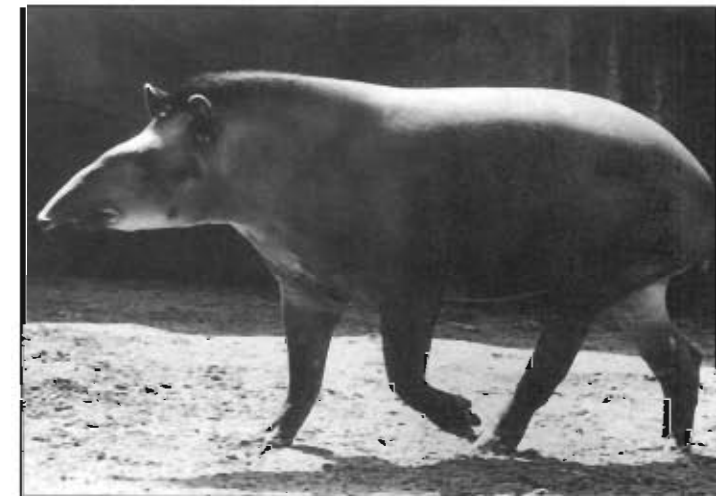
"The work we're doing with the Belize Zoo's education department represents the culmination of at least a seven-year relationship with the people of Belize," said Dr. Gil Boese, president of the Zoological Society of Milwaukee County. During the first couple of years, the Zoological Society funded outreach environmental education in Belize's rural Toledo District and teamed up with the Belize Zoo to produce and widely distribute two posters, one urging local residents to conserve Belize's natural heritage and the latest, "Our

National Symbols." "The very latest poster is the most popular yet," Flowers said. "It's a great teaching tool and is a definite guide to conserving and preserving Belize's natural resources."

Animal Sponsorship: A Boost From Belize

The Zoological Society's 12-year-old Sponsor An Animal program is getting a boost from its neighbors to the south. Starting this summer, the program will offer an expanded list of animals to sponsor, including these animals from the Belize Zoo and Tropical Education Center: jaguars, ocelots, King Vultures, tapirs, Howler Monkeys, and Collared Peccaries. Schools and individuals can sponsor any of these animals and receive recognition at the Milwaukee County Zoo and on a small sign near the animal's exhibit in Belize. Each donor

will get a photo of the donor sign in Belize, information about the animal sponsored and a certificate of sponsorship. All proceeds from the program, to be divided equally with the Belize Zoo, will help the Zoologi-



cal Society of Milwaukee County fund Zoo exhibit renovations, purchase food for the Zoo's animals, and assist the Belize Zoo with its exhibit enhancements.



Destination: DINOSAUR

Tired of seeing static illustrations and suspended skeletons of our prehistoric pals? Well, get ready for your chance to see dinosaurs live and in color...

Destination Dinosaur:

This newest exhibit at the Zoo will bring you face-to-face with 19 moving, roaring dinosaur replicas—the products of paleontologists, artists, sculptors, engineers and others who have devoted their lives to learning about how dinosaurs looked and lived.

Here's an introduction to the different dinosaur species that will inhabit the Zoo this summer. Set your watch back millions of years and join us on our trip to a time when the world looked different...when the climate was subtropical...when volcanos erupted continuously...

Welcome to the Age of the Dinosaurs!



APATOSAURUS



(ah-PAT-uh-sawr-us a.k.a. Brontosaurus)

Meaning of name: Deceptive lizard
Time period: Late Jurassic, 144 million years ago

Habitat: Western North America
Diet: Twigs and needles of fir, pine and sequoia trees

Size: The Apatosaurus was 15 feet tall at the hip, 75 feet long and weighed 30 tons.

Physical characteristics: Although the Apatosaurus was one of the largest dinosaurs, its brain was the size of a human fist. It often liked to stand on its elephant-like hind legs to reach tree tops and fend off predators.

Dinoriffic facts: The Apatosaurus had small, peg-like teeth that only cropped plants. It had to swallow stones and store them in a gizzard to grind up the plants it swallowed.



TYRANNOSAURUS



(tye-RAN-uh-sawr-us)

Meaning of name: Tyrant lizard
Time period: Late Cretaceous, 66 million years ago

Habitat: Western North America and China
Diet: Other animals

Size: The Tyrannosaurus was 17 feet tall, 50 feet long and weighed 7 tons (as much as a mature African elephant).

Physical characteristics: The Tyrannosaurus walked on two awesome hindlegs and used its small forelimbs and enormous jaws to tear apart its prey.

Dinoriffic facts: The Tyrannosaurus wasn't very quick, but ran in short bursts at more than 25 miles per hour. Thickened bones atop the animal's skull suggest it engaged in head-pushing contests during mating season.



DEINONYCHUS



(dyne-ON-ik-us)

Meaning of name: Terrible claw
Time period: Early Cretaceous, 66 million years ago

Habitat: Western North America
Diet: Other animals

Size: The Deinonychus was 6 feet tall (the height of an average human), 10 feet long and weighed 175 pounds.

Physical characteristics: The Deinonychus had a sharp, oversized claw on each hind foot allowing it to rip open prey held with strong, taloned forelimbs. The oversized claw was held off the ground when it walked or ran in order to remain sharp.

Dinoriffic facts: The Deinonychus hunted in packs similar to the way wild dogs hunt in Asia today.



Above: The Earth as it may have appeared during the Cretaceous Period

Below: The Geological Timescale through the days of the dinosaurs

continued on page 12



TRIASSIC PERIOD
208 to 248 Million Years Ago



JURASSIC PERIOD
208 to 144 Million Years Ago



CRETACEOUS PERIOD
144 to 65 Million Years Ago



TERTIARY PERIOD
65 to 2 Million Years Ago

PRESENT
DAY

Rainforest Magic

Activity areas in Milwaukee and Waukesha County libraries are full this semester with kids learning how to save rainforests in places they can barely pronounce as part of the Zoological Society's Tropical Rainforest Magic library outreach program.



Zoological Society educator Lee Anne Norris shows children how much rain falls in the rainforest during a Tropical Rainforest Magic program held at the Whitefish Bay Library.

Sitting cross-legged on the floor, children watch intently as Zoological Society educators pull props from their black bag of rainforest magic. They hold up a giant thermometer, stretch a tape measure the height of 45-inch workshop-goers, show a map of the world and invite kids to build a rainforest of soft-sculpture trees and animals—all to introduce children to how temperature makes tropical rainforests different from our forests, where rainforests are found and the diversity of the rainforest's plant and animal life.

"What else do we find in the rainforest, besides humidity, plants, animals and trees?" an educator asks, emptying a grocery bag of things like coconut, spices, chocolate, medicine, peanut butter and bananas. "There are so many reasons why rainforests are important and why we should work to preserve them," said Lee Anne Norris, coordinator of the program. "These are just a few."

Tropical Rainforest Magic is part of the Environmental Resources, Reading and Responsibility Program, a combined effort of the Zoological Society of Milwaukee County and the Milwaukee and Waukesha County Federated Library Systems.

The program also trains librarians how to evaluate and select environmental materials for their libraries, encourages children to take home family learning packets, and invites families to come to the Zoo for Conservation Day, June 4.

There are 12 Tropical Rainforest Magic programs scheduled in April, the last month of the program this season. Call the Zoological Society, (414) 256-5421, to check if the program is coming to your local library this month, then call your library to make a reservation.

Recycled Zoo

Destination Dinosaur, look out! You've got some stiff competition coming your way this May. Kids from 76 southeastern Wisconsin schools—from Kenosha to Kankana—are building dinosaurs that will rival your most atrocious Allosaurus or most dreaded Dimetrodon.

More than 120 dinosaurs—all made of recyclable materials—will take up residence in Miller's Recycled Zoo (Stackner Heritage Farm), May 13 through June. Each of the creations will represent a semester of learning about recycling through the Zoological Society's "Don't Become Extinct, Recycle!" program, sponsored by Miller Brewing.

"Through a fun activity, we're trying to recruit children to help solve

environment crises centering around pollution and wildlife extinction," said Mary Thiry, the Zoological Society's director of education. "Kids can help by recycling, reducing consumption and reusing materials."

To help kids understand their role in solving the pollution problem, the Zoological Society, in cooperation with Keep Greater Milwaukee Beautiful, University of Wisconsin Cooperative Extension and the Department of Natural Resources, developed an education packet of hands-on projects for teachers. Among the suggested activities: create an environmental newspaper, build a compost heap, play Enviro-Bingo and, of course, collect recyclables.

"With the volume of recyclables the kids have been collecting this semester," Thiry said, "we can expect to see life-size or nearly life-size dinosaurs here in May."

Munchkin Milk Movers



(clockwise, left to right): Brendan Haney, Emma Gill, Jeffrey Groose and Robert Wallace were among the first to experience milk production hands-on during the recent debut of an updated Munchkin Milk Factory at the Zoo. The \$8,000 factory renovation, funded by the Zoological Society, is part of a \$30,000 plan to update all interactive exhibits in the Dairy Complex.

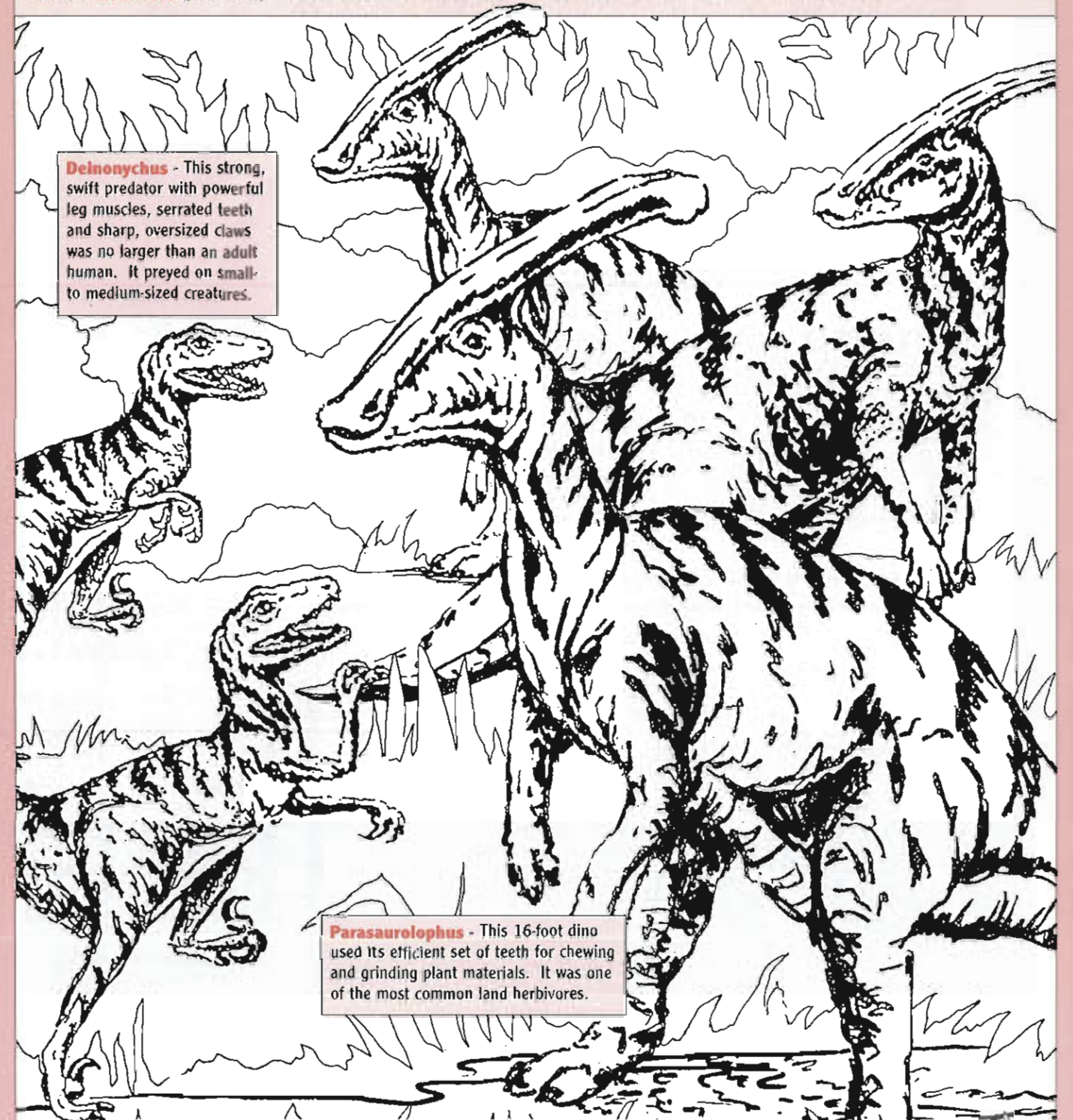
Kids! When you're finished reading about dinos on this page, get out your crayons and color the animals, just like in your coloring books.

Alive
For KIDS and Families

WHAT DID DINOSAURS EAT?

The physical features of a dinosaur can tell important information about its lifestyle. For example, is the dinosaur a **carnivore** (meat-eater) or **herbivore** (plant-eater)? The two dinosaurs featured here

are ones that you will see when you visit Destination Dinosaur at the Zoo. Both dinosaurs lived during the Cretaceous Period 145 million years ago and were found in western North America.



Deinonychus - This strong, swift predator with powerful leg muscles, serrated teeth and sharp, oversized claws was no larger than an adult human. It preyed on small-to medium-sized creatures.

Parasaurolophus - This 16-foot dino used its efficient set of teeth for chewing and grinding plant materials. It was one of the most common land herbivores.

Prehistoric Names

Read the story on dinosaurs, starting on page 8, then unscramble the letters below to find out who I am. My Name Means: Who Am I?

"ANOTHER LIZARD-CREST"

RSAPROOAPSULUAH

"WINGED LIZARD"

NAETDOPNOR

"THREE-HORNED FACE"

RTSOCIPERTA

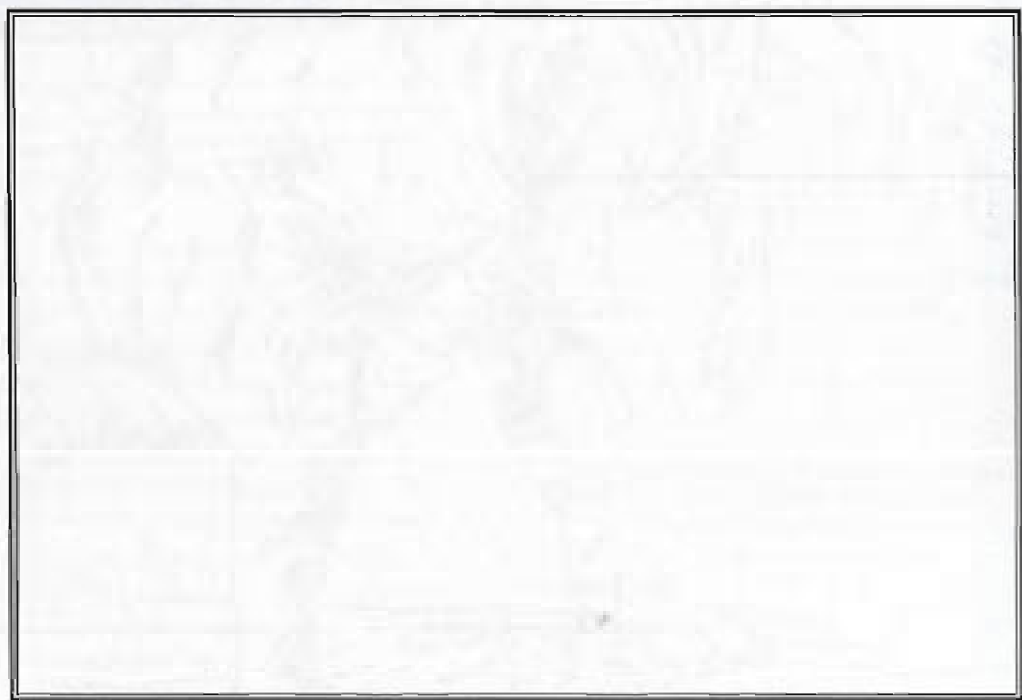
"TERRIBLE CLAW"

EUYCDISHNHN

Answers: Who Am I? Parasaurlophus, Pteranodon, Triceratops, Deinonychus

PUTTING TOGETHER THE DINOSAUR PIECES

The following paragraph describes one specific dinosaur. Can you draw a picture of it here?



I am a plant-eating dinosaur with three horns. I live on the land and walk on all four legs. Some people think that I look like a rhino because of my horns. But I'm different. I have frills around my skull for scaring away my enemies.

What is my name?

Answer: Triceratops



DO YOU HAVE A QUESTION?

If you'd like us to answer your animal question and you're 12 years old or younger, then write to us:

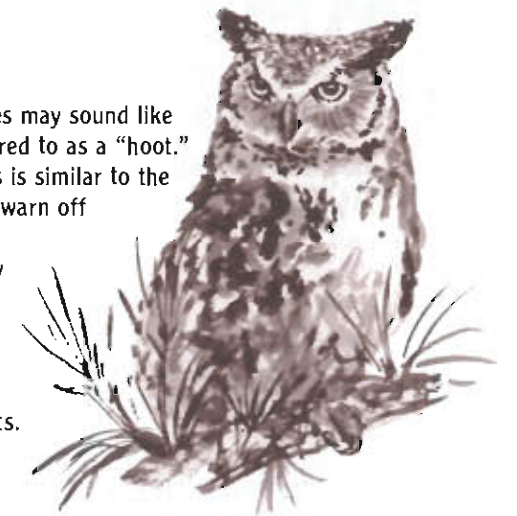
Curious Corner—
Alie
Zoological Society
of Milwaukee
County
10005 W.
Bluemound Rd.
Milwaukee, WI
53226

If we answer your question here, you'll receive a special prize from the Zoological Society.

WHY DO OWLS SAY "WHO?"

While the sound that an owl makes may sound like "who," it is more commonly referred to as a "hoot." The familiar hooting of many owls is similar to the song of other birds and serves to warn off other owls and to attract a mate. Owls may be identified at night by their individual calls. For example, the call of the Great Horned Owl, which is a common owl found in Wisconsin, is a series of seven or eight deep hoots.

Betty Mazur, Age 4, Milwaukee, WI

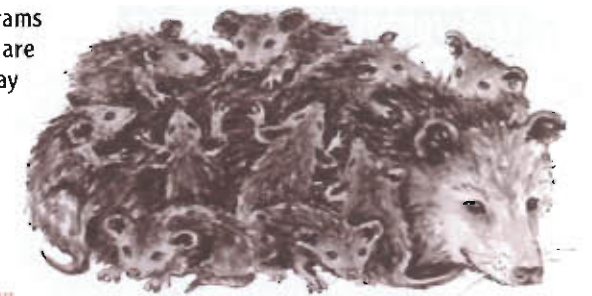


HOW MANY BABIES DOES AN OPOSSUM HAVE AT ONE TIME?

The American or Virginia opossum is the only marsupial, or pouched mammal, found in North America. The gestation period, or pregnancy, of the mother opossum is one of the shortest of all mammals, lasting an average of only 12 to 14 days. A female opossum can produce two litters of young per year. Each litter may contain as many as 25 young.

The young are born blind and naked and weigh barely 2 grams (0.01 oz.). After the young are born, they must find their way by themselves from the mother's birth canal to the pouch on her abdomen, where they can attach themselves to a teat to continue their development.

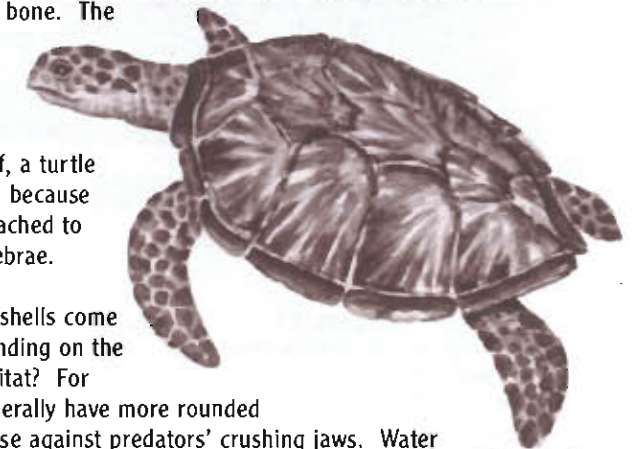
Chad Dibb, Age 10, Hartland, WI



WHAT ARE TURTLES' SHELLS MADE OF?

The shells of turtles and tortoises consist of two parts: a "carapace" covering the animal's back and a "plastron" covering its belly. Both the carapace and the plastron are formed from bone. The carapace is also covered by scales or "scutes" formed from the epidermal layer of skin.

Contrary to popular belief, a turtle is unable to shed its shell because the carapace is firmly attached to the turtle's ribs and vertebrae.



Did you know that turtle shells come in different shapes, depending on the turtle's behavior and habitat? For example, land turtles generally have more rounded shells to serve as a defense against predators' crushing jaws. Water turtles, on the other hand, have lower, more streamlined shells to make it easier to swim. The shell of the African Pancake Tortoise is extremely flat, which allows it to squeeze into the narrow crevices of its rocky habitat.

Jessica Butler, Age 12, Franksville, WI

SUMMER ADVENTURE CAMPS

presented by

THE MILWAUKEE JOURNAL

In-person registration at the Zoo is Saturday, April 30, 8:15 a.m. - 1:30 p.m., in the Education Center. If you are coming to register, enter through the main gate (which will open at 7:45 a.m.) and tell the gate attendant, "I'm here for camp registration." There will be no admission onto Zoo grounds prior to 7:45 a.m. Park in the lot and proceed to the Education Center. Forms will be available there. You may register other Society members. Please bring their Zoological Society membership cards with you. Mail-in registrations will be processed beginning May 16. Please observe camp age requirements; ages must be met within two weeks of program date. If you wish to receive a complete camp listing and cost, send a self-addressed, stamped (52 cents), business-size envelope to: Camps, Zoological Society, 10005 W. Bluemound Rd., Milwaukee, WI 53226.

For remaining openings in Spring Preschool Workshops, call (414) 256-5424.

CAMPS FOR 3-YEAR-OLD WITH PARENT

9:30-11 a.m. or 1:30-3 p.m.

DRIVING YOU BATTY

June 22, July 27, Aug. 11
Children can go batty learning about these furry creatures of the night.

GIANT BEASTS

June 20-21, July 26, Aug. 18
Stretch the imagination of your children as they learn about giant hoofed animals.

THE LITTLEST DINOSAUR

June 23, July 25, Aug. 12 & 16
Experience the world of dinosaurs.

CAMPS FOR 5-YEAR-OLDS

9:30-12 p.m. or 1-3:30 p.m.

JUNIOR ZOOKEEPER

June 15-17, July 18-22, Aug. 12-18
Get a close-up look at a zookeeper's job.

OCEAN MAMMALS

June 22-24, July 6 & 7, Aug. 8 & 9
Get a behind-the-scenes look at our watery mammals.

PETS AND THEIR WILD RELATIVES

June 30, July 1, 5, 27; Aug. 3-5
Children will compare domestic animals with wild animals and find out why pets can be our very best friends.

DYNAMIC DINOSAURS

June 27-29, July 28 & 29, Aug. 1 & 2
Have loads of fun learning about these gigantic creatures.

ONE-DAY CAMPS FOR 6 TO 13-YEAR-OLDS

9:30 a.m. - 3:30 p.m.

I WANT TO WORK IN A ZOO

6-YEAR-OLDS
June 20 & 21, July 11-15, 25 & 26; Aug. 10 & 11
Children will learn about a variety of Zoo jobs as they get involved in the everyday tasks performed at the Zoo.

DIG THOSE DINOSAURS

6 & 7-YEAR-OLDS
June 15, 16, 24 & 30; July 1 & 6; Aug. 11 & 12
8 - 10-YEAR-OLDS
June 17 & 22, July 5, 7 & 28; Aug. 10, 15 & 16
Explore the ancient world of dinosaurs in a variety of creative ways.

FOREST FANTASY

6 & 7-YEAR-OLDS
June 17, July 7 & 13
8 - 10-YEAR-OLDS
June 15 & July 18
Explore the wonders of the mystical forests.

NATURAL AND CULTURAL CRAFTS CAMP

6 & 7-YEAR-OLDS
June 24, July 8, Aug. 8 & 17
8 - 10-YEAR-OLDS
June 16 & July 6
Explore the worlds of Pacific Islands, South America and southwestern United States.

ENVIRONMENTAL SCIENTIST I

7 & 8-YEAR-OLDS
June 21 & 23, July 12 & 13
Explore and experiment with the world of nature.

SUPER SENSE

7 & 8-YEAR-OLDS
June 20, July 19, Aug. 17 & 18
Discover why animal senses are so super.

ANIMALS OF THE NIGHT

7 & 8-YEAR-OLDS
June 28 & 29, July 20 & 25
Discover the mysteries of animals that you may never see.

SPIDERS, BUGS AND BUTTERFLIES

7 & 8-YEAR-OLDS
July 11, 18 & 29; Aug. 1
Explore and learn to recognize the friends in this miniature world.

MYSTERY SLEUTH

7 & 8-YEAR-OLDS
July 26 & 27, Aug. 8 & 9
Solve a Zoo mystery and enter the world of sleuth technology.

PENGUIN POWER/POLAR BEAR PRIDE

7 & 8-YEAR-OLDS
Aug. 3, 4, 10 & 15
Uncover the truth about these animals of frozen and not-so-frozen lands.

VET CAMP

9 - 12-YEAR-OLDS
July 5, 28 & 29; Aug. 1, 2 & 9
Learn about veterinary careers and techniques.

CAREER DAY

9 - 11-YEAR-OLDS
June 27, July 8
12 - 14-YEAR-OLDS
Aug 5
Find out about different career opportunities and how to prepare for them.

PHOTOGRAPHY CAMP (BEGINNER)

9 - 13-YEAR-OLDS
June 22, July 14
Learn the basics of animal photography.

PHOTOGRAPHY CAMP (ADVANCED)

9 - 13-YEAR-OLDS
July 21
Learn advanced techniques. You must have 35 mm camera and past experience.

MULTIPLE CAMPS FOR 9 - 12-YEAR-OLDS

These four half-day programs can be maximized by selecting different morning and afternoon camp series.

PALEONTOLOGY

9:30-12:00 p.m., June 28-July 1; 1-3:30 p.m., Aug. 2-5
Here is your chance to study dinosaurs the way scientists do.

ENVIRONMENTAL SCIENTIST II

1-3:30 p.m., June 28-July 1; 9:30-12:00 p.m., Aug. 2-5
Explore the environment through experiments.

FAMILY CAMP

For families of four or less - with children age 6 and above.

DINOSAUR DYNAMITE

9:30-12:40 p.m., Aug. 13
This camp will introduce you to the basics, while giving the experts - your kids - a more in-depth look at these creatures of the past.

HIGH SCHOOL INTERNSHIPS FOR 14 TO 17-YEAR-OLDS

Zoological Society members ages 14-17 interested in education or biology careers are invited to apply for 10 non-paid, two-week internships with the Society's Education Department. If interested, call 256-5421 to request an application form.

exZOOberance

American Airlines Presents: Zoo Ball XI

Promising to be a colorful, festive affair, Zoo Ball XI has attracted a theme that snits the evening to a "Z": EX-ZOO-BERANCE. The ball, Saturday, June 25, invites guests to the wildest party in town, complete with music by the Dan Hayes Orchestra, cocktails and appetizers, a silent auction, an elegant sit-down dinner and dancing. Tickets to Zoo Ball, presented by American Airlines, are \$175 per person (\$2,500 for a corporate table). Zoo Ball is the Zoological Society's biggest fund-raising event. Proceeds will help the Society purchase food for the Zoo's animals. To make a reservation, call (414) 258-2333.

Support Snapshots

Gifts That Last Forever

Secure the future of major Zoo exhibits for generations to come...fund graduate student research grants in conservation biology...help college interns pursue careers in education and science and more through the newly established Foundation for Wildlife Conservation. Your gift insures the future of widely respected programming in conservation and education. The foundation offers several giving options, from outright gifts to life income gifts. To learn more, call Shirley Decker, director of development, at (414) 276-0843.



FOUNDATION FOR
WILDLIFE CONSERVATION

Sponsor Spotlight

The Zoological Society thanks...

AMERICAN AIRLINES FOR DONATING AIRFARE FOR THE SOCIETY'S SPRING MEMBERSHIP ACQUISITION SWEEPSTAKES.

BEATRICE CHEESE INC. FOR ITS SPONSORSHIP OF MAY'S DINOSAUR ADVENTURES SCHOOL PROGRAM.

FEDERAL PLAZA FOR UNDERWRITING FEBRUARY'S BLUE BAYOU FUND-RAISER.

HYATT REGENCY MILWAUKEE, SOCIETY FOR TYMPANUCHUS CUPIDO PINNATUS, LTD., UNITED AIRLINES, AND PROFESSOR STANLEY A. TEMPLE, UW-MADISON'S DEPARTMENT OF WILDLIFE ECOLOGY, FOR THEIR SUPPORT OF THE WILDLIFE CONSERVATION SYMPOSIUM.

MAYFAIR MALL FOR DONATING SPACE OVER THE HOLIDAYS AND VALENTINE'S DAY TO PROMOTE MEMBERSHIP IN THE ZOOLOGICAL SOCIETY AND THE SOCIETY'S SPONSOR AN ANIMAL PROGRAM.

PICK 'N SAVE AND THE MILWAUKEE JOURNAL FOR SPONSORING THE CARE FOR CRITTERS WILDLIFE OUTREACH AND ANIMAL FEEDING PROGRAM (ADDITIONAL CARE FOR CRITTERS SPONSORS RECOGNIZED ON PAGE 15).

RED CARPET LANES FOR ITS SPONSORSHIP OF THE BEASTLY BOWL-A-THON.

TRI CITY NATIONAL BANKS FOR UNDERWRITING THE DINOSAUR SPONSOR PROMOTION.



Blue Bayou

Linda Grunau and Debra Strassburger gamble (just for fun, of course) aboard a Mississippi riverboat during the Zoological Society's winter fund-raiser, Habitat '94: Blue Bayou, presented by Federal Plaza. Proceeds from the event helped the Society purchase food for the Zoo's animals.



DILOPHOSAURUS



(di-LOAF-o-sore-us)

Meaning of name: Two-crested reptile
Time period: Early Jurassic, 190 million years ago
Habitat: Western North America
Diet: Other animals
Size: The Dilophosaurus was 25 feet long, 6 feet tall and weighed 1,000 pounds.
Physical characteristics: The Dilophosaurus had two tall, side-by-side head crests and a very long, flexible tail used as a whip to stun prey.

Dinoriffic facts: Not only did the Dilophosaurus use its head crests to threaten enemies and attract mates; the crests also acted as heat radiators to cool the dinosaur's blood and brain in hot weather.

PTERANODON



(tair-AN-o-don)

Meaning of name: Winged lizard
Time period: Late Cretaceous, 66 million years ago
Habitat: Western North America
Diet: Fish
Size: The Pteranodon had a wingspan of 25-30 feet and weighed 35 pounds (no more than a good-sized turkey).
Physical characteristics: Most scientists believed that the Pteranodon was capable of sustained flight. Others believed it only glided on air currents or thermal updrafts.

Dinoriffic facts: The Pteranodon was one of the largest flying creatures and was also the first vertebrate to evolve true, powered flight. Its lifestyle was very similar to that of today's albatross.

PARASAUROLOPHUS



(par-ah-sawr-OL-uh-fus)

Meaning of name: Another lizard-crest
Time period: Late Cretaceous, 66 million years ago
Habitat: Western North America
Diet: Tough plants
Size: The Parasaurolophus was 16 feet tall, 30 feet long and weighed 3 tons.
Physical characteristics: The Parasaurolophus had a duck-billed head with a striking, elongated crest that could reach up to 6 feet in length.

It also had hundreds of replaceable, closely packed teeth used to chew tough plants.
Dinoriffic facts: The head crest functioned as a resonator that produced deep sounds used to communicate with other Parasaurolophuses and warn them of oncoming predators.

TRICERATOPS



(tri-SAIR-uh-tops)

Meaning of name: Three-horned face
Time period: Late Cretaceous, 66 million years ago
Habitat: Western North America
Diet: Tough plants
Size: The Triceratops was 10 feet tall, 25-30 feet long and weighed 5 tons.

Physical characteristics: The Triceratops had horns and frills around its skull used for visual display and intimidating rivals. The frills made the skull almost 10 feet long — the largest known skull of any land animal.
Dinoriffic facts: The Triceratops' best defense wasn't charging with its horns like today's rhinoceros; rather, it inflicted a bone-crushing bite with its parrot-like beak.

Note: During regular Zoo hours, the cost to experience Destination Dinosaur is \$2 per person. Zoological Society members get into the exhibit free during Destination Dinosaur members-only premieres, May 2-6; Nights in June Picnics, June 15-16; and Kids Night, July 21 (see calendar, page 20).



ON THE JOB

Wooden dinosaurs and Destination Dinosaur exhibit plans compete for space on the desk of Milwaukee County Zoo Special Events Coordinator O.J. Merrell.

When the surface of O.J. Merrell's desk began changing from the orderly arrangement of Zoo event-oriented clutter to the chaotic spread of mock dinosaur eggs, inflatable mammoths from another epoch, and small-scale models of giant prehistoric creatures, it was a signal that something big was coming to the Zoo...something very big.

When Merrell learned that pulling together the Zoo's newest exhibit, Destination Dinosaur, was largely in his hands, he embraced with zeal the chance to build "the prehistoric playground" of his dreams.

Positioning fog machines, tweaking the call of distant Pteranodons, replicating the rumbling roar of a T-Rex, making mud pits bubble...it's all old hat to Merrell, who brings his 16-year career in teaching theater and speech to his job at the Zoo every day.

Merrell relishes the thought of stretching back in his director's chair this May, when Destination Dinosaur debuts to the public, and watching kids wave their arms toward dinosaurs and scream, "Those are the ones I saw in the movie!" referencing the wildly popular *Jurassic Park*.

Uniquely able to see every Zoo experience through the eyes of a child, Merrell leaps with ease from coordinating one Zoo event to the other—Egg Day, Halloween Spooktacular, Holiday Night Lights...every year, throwing in new elements just for fun. But, for Merrell, nothing beats the rush of bringing the *Sentinel's* Milwaukee a la Carte to zoogoers each summer. He's still got three more months...and a really long to-do list. No sweat.



Caring FOR Critters



Ms. DeLone had the entire school all but eating out of her hand. As she roamed the front of the gym at Good Shepherd's Lutheran School in West Allis, a Red-Tailed Hawk in her grasp, a

thicket of upraised arms waved before her. "With wild places gone are all of the wild animals gone, too?" she asked. As students strained to offer answers—and some unsolicited tales about pets at home—

DeLone started in motion the process of arousing children's feelings for wildlife. Introducing one remarkable raptor after the other...Steppe Buzzard...Peregrine Falcon...Screech Owl...Barn Owl...Great

DO YOU KNOW...

...as much about the wildlife around you as our Care For Critters kids? Then, try to pass this quiz. Which of these wild animals have been seen in the Metro Milwaukee Area? (No, the Zoo doesn't count!)

Raccoon	Mink	Woodchuck	Great-Horned Owl
Peregrine Falcon	Coyote	Pheasant	Salamander
Cottontail Rabbit	Weasel	Squirrel	Meadow Vole
Opossum	Fox	Woodcock	Newt
White-tailed Deer	Muskrat	Chipmunk	Mole
Skunk	Red-tailed Hawk	Woodpecker	Shrew
Bobcat	Garter Snake	Bat	
Bald Eagle	Beaver	Turtle	

Answer: See below.



Waldo the woodchuck gets a treat from Barbara Szymanski (left), manager of community and corporate relations with *The Milwaukee Journal*, and Debra Lawson, director of consumer affairs with Roundy's, at the Jan. 5 debut of the Care For Critters program. The zookeeper pictured is Lisa Guglielmi. As part of its involvement in Care For Critters, *The Milwaukee Journal* devoted a special section, Sunday, March 6, to help promote the program and donated all advertising revenue from the section to the Zoological Society. Proceeds from the section and from Pick 'n Save's sponsorship are helping the Society purchase food for the Zoo's animals and continue to reach thousands of Milwaukee-area students with important wildlife conservation messages.

ON THE JOB

Sarah DeLone, Bird Show Supervisor for the World Bird Sanctuary, gives students a close-up introduction to the endangered Peregrine Falcon during a Care For Critters program at Good Shepherd's Lutheran School in West Allis.

She spends almost every hour of every day shuttling the six raptors in her charge from one school to the next, introducing the birds to hundreds of students, and launching what for many kids begins a lifetime of respect and care for all wildlife. A special job for a special person? You bet.

Meet "Bird Show Sarah," an environmental educator who, since early this semester, has been on the front line of the Zoological Society's new Care For Critters urban wildlife outreach program, sponsored by Pick 'n Save and *The Milwaukee Journal*. With a background in zookeeping, outdoor recreation/resource management, wildlife rehabilitation and public speaking, Sarah DeLone wears her wildlife-advocate label well.

Adaptably playing off of students' reactions to her talks—sometimes awe, sometimes excitement, usually a lot of both—DeLone knows her programs make an impression. "When the kids leave the gym or auditorium knowing that raptors are out there and that they want to help keep them safe," DeLone said, "then we've accomplished something."



Horned Owl...DeLone made teaching respect for wildlife look so easy. And so fun.

It's all part of the Zoological Society's new Care For Critters educational outreach program, presented by Pick 'n Save and *The Milwaukee Journal*. The program, which debuted at 38th Street School in January, is extending the Zoological Society's leadership in conservation education beyond the Zoo's gates and into the classrooms of southeastern Wisconsin in a dramatic way.

"By the end of this semester, the program will have reached about 25,000 students and by the end of the year, twice that," said Gil Boese, president of the Zoological Society. "That's 50,000 more kids we will have recruited to work on behalf of the rabbits, chipmunks, robins and snakes and even foxes that live in the very center of our city."

All of these urban animals have their Care For Critters' birds-of-prey ambassadors, in part, to thank for what should become a more secure future for all wildlife.

"Each of the raptors we've seen today has adapted to live around people," DeLone continued, slowly moving through ribbons of children sitting near-motionless on the floor, eyes glued to the magnificent bird attached to DeLone's hand. "Often these animals have lost their wild homes and have found food and shelter in the city.

"These birds may seem new to you and it may be hard to believe that they live near

your home. If you pay careful attention when you're in your car or at home, you may even be lucky enough to see one in the wild. But when you see it, respect it. You and that bird and all things in nature are connected."

Inspired by DeLone's message and face-to-face encounters with some of Wisconsin's premier wildlife, the children from Good Shepherd's filed back to their classrooms, where more learning on wildlife would become a top priority this semester. "The most important thing I've learned so far is to leave the birds alone because some are endangered," said fourth-grader Paul Bowe.

The Zoological Society has made the teachers' task of reinforcing the Care For Critters conservation message in the classroom a little easier by providing a Care For Critters curriculum packet. The packet, prepared by the University of Wisconsin-Extension and the Zoological Society, includes in-class activities and projects on animal awareness, respect for wildlife and wildlife safety.

"The program goes a long way toward emphasizing what we're teaching in class," kindergarten teacher Lyla Spiegelberg said. "It's great for the kids to see the birds close-up. We're really impressed."

Answer: Which of these wild animals have been seen in the Metro Milwaukee Area? All of them!

SPONSOR SPOTLIGHT

The Zoological Society thanks these Care For Critters sponsors:

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- The Milwaukee Journal*
- and
- American Beauty
- Birds Eye Frozen Vegetables
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- Dole
- Gatorade
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The Platypus Society is a group of about 350 Milwaukee-area foundations, corporations and individuals that contribute more than \$300,000 annually to the Zoological Society. If you would like to join this group in helping the

Society uphold its mission of supporting the Zoo, educating the community about wildlife and the environment and conserving endangered species, call Shirley Decker at (414) 276-0843.

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- Mr. & Mrs. Peter Rokich in memory of Helen Amidzich
- Dr. Morris & Barbara Sable
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- *Donald & Rosemary Zellmer

*5-year Platypus Society Member (updated each fall)

IN-KIND GIFTS of Products or Services

In-kind gifts of products or services are now being listed separately for the donor-stated value of the gift. This list will be updated as in-kind memberships are renewed. The following gifts are listed below as of February 25, 1994:

\$10,000 +
American Airlines

\$5,000-\$9,999
Sunshine Productions

\$1,000-\$1,499
Risser Color Service Inc.

\$500-\$999
Harry W. Schwartz Bookshops
Travel Plus

PLATYPUS SOCIETY STEERING COMMITTEE

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- Dr. Leander R. Jennings
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- Barry S. Sattell
- Daniel P. Schwabe
- Suzanne L. Selig
- Rand J. Wolf
- Joseph B. Wolfe

NEW MEMBERS

The Zoological Society welcomes the following new Platypus Society members as of February 25:

CORPORATE I (\$1,000-\$1,499)
CERAC, Inc.
Marsh & McLennan/William M. Mercer

PATRON (\$500-\$999)
Mr. & Mrs. J. Thomas Emerson
Linda & Douglas Knehn
Terry & Carol Wilkins

Friends contributing to the Platypus Society after February 25, 1994 will be recognized in the next issue of ALIVE.

NEW GIFT LEVELS

The Zoological Society thanks the following members for their increased levels of giving:

Patron II (\$1,500-\$1,999)
*R. Robert & Madeline J. Howard+
Mr. & Mrs. David Meissner+

PLATY + PROGRAM

A very special thank you to current members who have increased their level of giving by 10% or more. These members are being recognized with a plus(+) sign after their name.



◀ Congo Peacock

(Aviary—African Rainforest)

Arrived from Antwerp Zoo: September 30, 1993

It's hard to imagine that this conspicuous bird had eluded scientists until just a few decades ago. But since the Congo Peacock was discovered in the Ituri Rain Forest of Africa's eastern Congo Basin, zoologists have learned a lot about this shy bird. By day, the peacocks silently roam the shady rain forest floor. By night, they roost high in the trees, freely exchanging greetings to other peacock families across miles of forest. Though not endangered, the exotic Congo Peacock is the only native true pheasant (this bird does fly) found outside Asia. To ensure its present status in the wild, the Milwaukee County Zoo is working with the Antwerp Zoo to breed the peacocks in captivity through the Antwerp Zoo-administered Congo Peafowl Trust.

Source: Ed Diebold, Curator of Birds

Wolverine ▶

(North America)

Arrived from Minnesota Zoo: September 15, 1993

Indiscriminately shot and trapped for its pelt over the past four centuries, the wolverine today is facing an even greater threat: over-development in its North American/Eurasian habitat. The areas of greatest population decline are areas where human populations are densest. There are no wolverines left in Wisconsin, except at the Zoo. Deserving of its nickname, glnnton, wolverines easily can capture and consume mammals as big as reindeer. But don't expect to see the Zoo's wolverine, Homer, dragging down any large prey. He gets much less exotic fare: 1-1/2 pounds of Nebraska Canine Diet (a mixture of meats, vitamins, cereals and other good stuff) every day...but he loves it. Homer knows what's good for his lovely reddish-brown coat.

Source: Daron Graves, Area Supervisor, North America/Australia



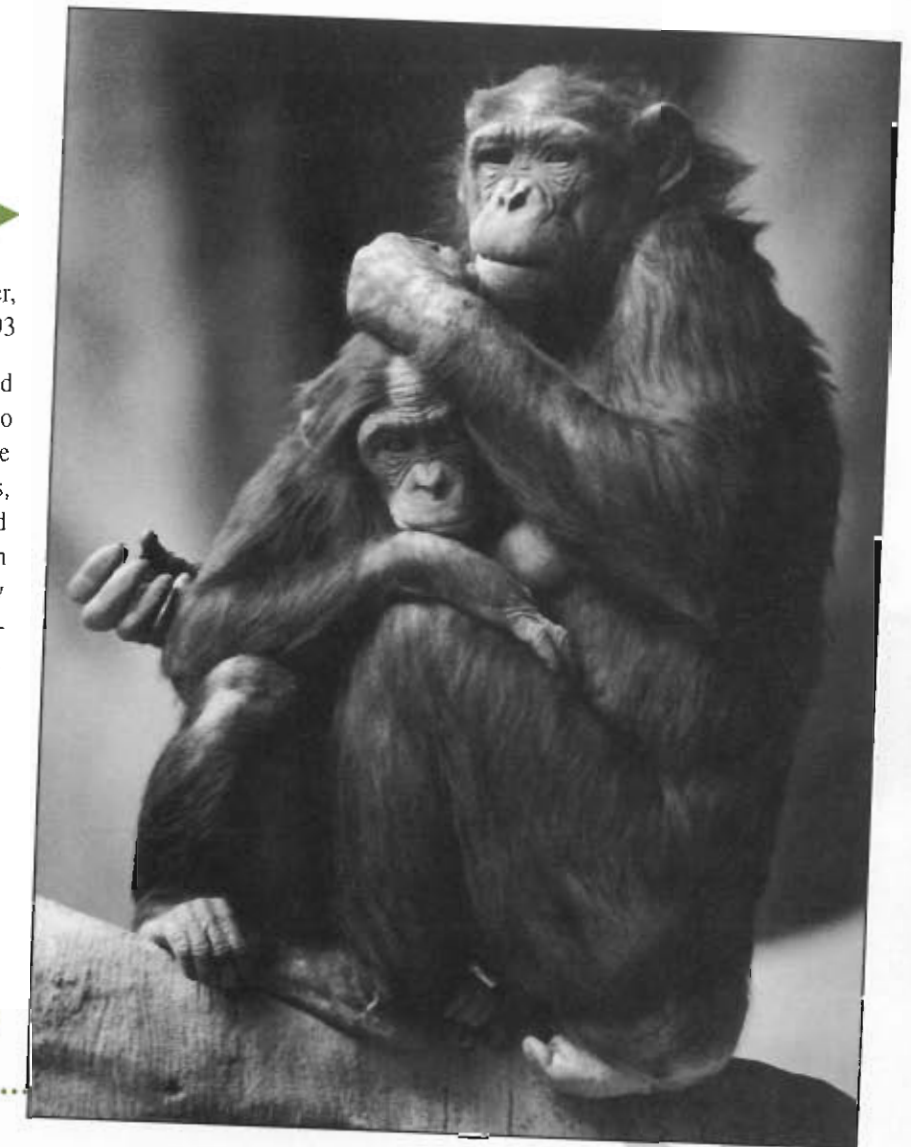
Bonobo ▶

(Apes of Africa)

Arrived from Yerkes Primate Research Center, Atlanta, GA: December 16, 1993

Trying to win the race to save the threatened bonobo from extinction, the Milwaukee County Zoo and Zoological Society of Milwaukee County are working with other zoos, conservation organizations, and the people of the bonobo's native war-torn and troubled country of Zaire to develop long-term conservation strategies for preserving this critically endangered chimpanzee. The bonobos pictured here—Laura and her son, Murph—are the Zoo's most recent example of successful inter-institutional cooperation in managing the captive bonobo population for long-term survival. They're here on loan from San Diego Zoological Society to help our Zoo establish bonobo family groups like those found in Zaire. The Zoo now has three male bonobos and three females. When Eliya, the female born here four years ago, and Murph, also four, reach sexual maturity in a few years...well, you know what we're hoping....

Source: Jan Rafert, Curator of Primates/Small Mammals



◀ Tayra

(Small Mammal Building)

Born: August 10, 1993

If you're serving bananas or corn for lunch today, take the tayra off your guest list. From Mexico to Argentina, tayras have been accused of raiding banana plantations, corn fields and sugar cane crops, not to mention any birds, small mammals, reptiles or insects that might be in the area. The tayra likes fruit more than other members of the weasel family, such as the marten, sable or fisher. It also is more compact, has longer legs and, also unlike its weasel relatives, the tayra doesn't mind hanging out with other members of its family. Threatened in the wild by habitat destruction, this short, brownish-black mammal is found in only some U.S. zoos. Tayras have been calling our Small Mammal Building home since the mid-'80s.

Source: Jan Rafert, Curator, Primates/Small Mammals





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