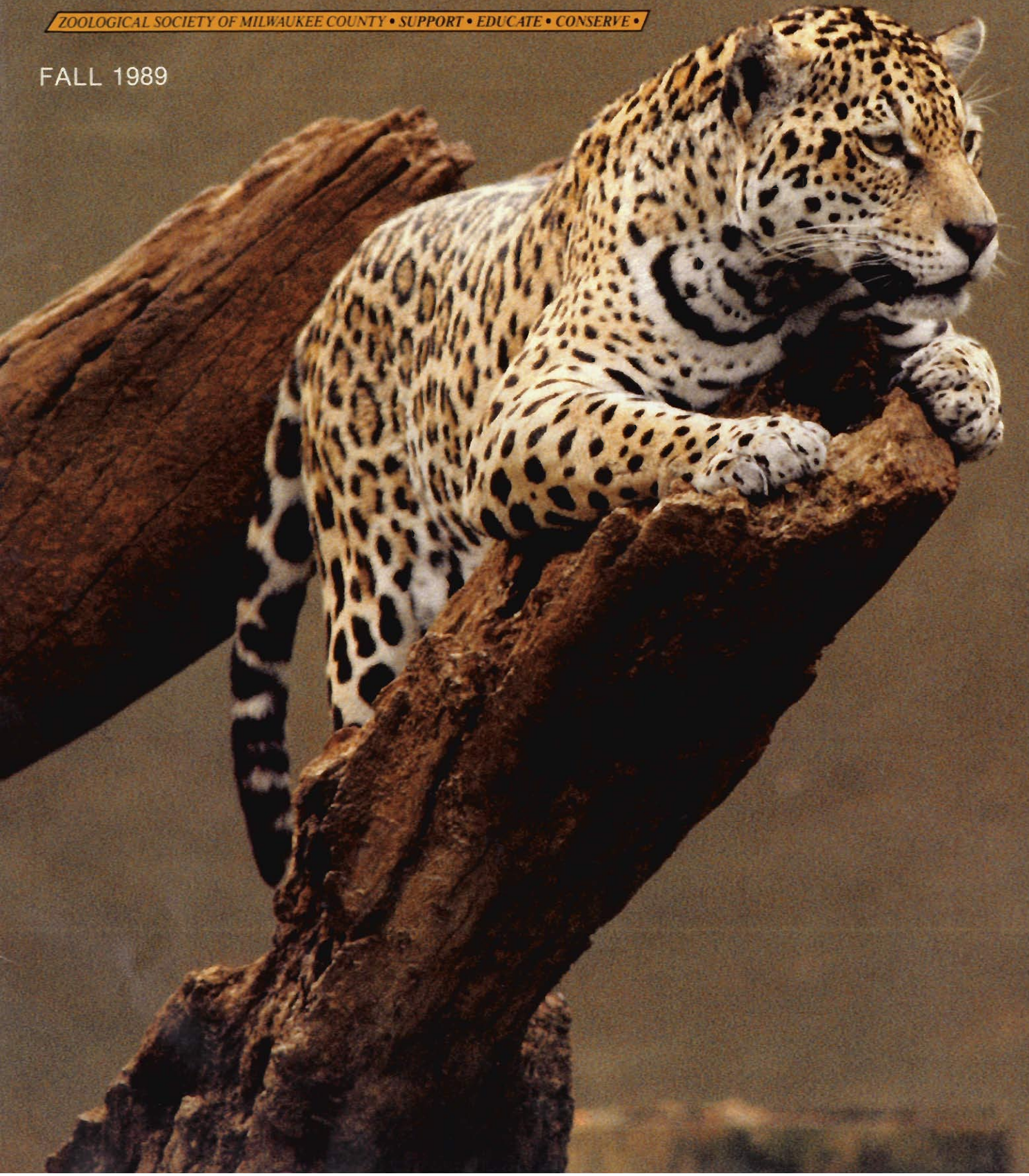


ALIVE

ZOOLOGICAL SOCIETY OF MILWAUKEE COUNTY • SUPPORT • EDUCATE • CONSERVE •

FALL 1989



by Dr. Gilbert K. Boese



On my many trips to Africa, I've noticed that elephants inspire awe in even the most sophisticated traveler. Sighting groups of the largest land mammal, is an overwhelming experience. These magnificent animals can reach 11 feet and weigh thousands of pounds. Close observers will notice the tight social order. Although bulls tend to be loners, females and their calves live in cohesive groups, with several females participating in the rearing of calves. African elephant researchers have reported behaviors which endear the animals to people including, joyful greeting "ceremonies" when different groups encounter each other, and seeming concern over the welfare of group members. Elephants have often been observed assisting a group member when she lags behind because of illness or fatigue.

African elephants have long been a symbol of the African continent; now they are disappearing. Hunting and poaching in the 19th century critically reduced the elephant population, especially in Southern Africa. Tighter controls and hunting restrictions helped stabilize their numbers until the 1960's. Since that time, however, the encroachment of humans on the elephants' habitats, and poaching have threatened the elephant as a viable species. In the past ten years, the number of African elephants in the wild has declined by 50%. The estimated population has dropped from 1.3 million elephants in 1979 to approximately 625,000 in 1989. Based on the current rate of slaughter, African elephants will be completely exterminated within 50 years.

Because of a very lucrative trade in ivory, elephants are no longer safe, even in protected preserves. An average Kenyan makes \$20 a month—but can earn \$6 a pound for ivory. Unfortunately, this makes even the 10 pound tusks of a young elephant very attractive. Most large males with tusks weighing 100 pounds have already been eliminated. Even females in their prime (age 40 and over) are becoming scarce. This is especially tragic because elephants mature slowly and need their mothers for food and protection. Seventy percent of all orphaned elephants between the ages of two and five and 50% of those ages six to ten will not survive.

Through education and expressed concern from conservation groups, the U.S. Congress enacted the African Elephant Conservation Act. The law recognizes the economic importance ivory has on the economies of some countries and gives them time to develop elephant management programs, including tough poaching measures. If any country does not have such a program in place by next January, the U.S. will ban importing ivory from that country. The law also authorizes \$5 million a year for five years to help these countries.

As one committed to conservation, I feel that elephants, like all creatures, have intrinsic worth. It is also well known that elephants play a key role in preserving biological diversity. The loss of the elephant would have a devastating effect on all African wildlife—and on an economy which relies heavily on tourism.

I am asking you, members of the Zoological Society, to help save the remaining 625,000 African elephants. Here are some important beginning steps we all can take:

- Don't buy ivory! Once ivory is carved into jewelry and other trinkets, there's no way of telling if it comes from legal or illegal sources.
- Learn more about the plight of the African elephant and spread the word. Convince your friends and neighbors not to purchase ivory.
- Write to members of Congress and urge them to support legislation which protects the African elephant, such as the African Elephant Conservation Act. Here are their addresses:

Sen. Robert W. Kasten
110 Hart Senate Off. Bldg.
Washington, DC 20510

Sen. Herb Kohl
702 Hart Senate Off. Bldg.
Washington, DC 20510

Rep. James P. Moody
1721 Longworth House Off. Bldg.
Washington, DC 20515

Rep. Gerald D. Klecka
226 Cannon House Off. Bldg.
Washington, DC 20515

Rep. F. James Sensenbrenner, Jr.
2444 Rayburn House Off. Bldg.
Washington, DC 20515

ALIVE MAGAZINE

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ALIVE STAFF

Susan Slater, Editor
Jay Jocham, Graphic Designer

Contributors:

Christine Baar, Membership
Peter Feldner, Curious Corner
Bev Greenberg, Development
Robin Higgins, Zoo Pride
Cheryl Lee, Special Events
Mary Thiry, Education

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(jaguar)
Back cover photo by Andrew Teare
(Roseatte Spoonbill)

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Fall 1989

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A New Season For Special Events

Has the summer's "get up and go" got up and gone? If so, the fall's events can spark up your energy! Betty Salamun's Dancecircus will present "Animal Faire" in the Peck Welcome Center on October 7-8, 14-15, and 21-22 at 11 a.m. and 2 p.m. each day.

A fright night in the Dungeon of Darkness is sure to get your blood pumped October 20-22 and 27-29 from 6-9 p.m. The Dungeon is sponsored by Zoo Pride and the Milwaukee/NARI Home Improvement Council, Inc.

Kids will have "A Neat Place For a Safe Trick or Treat" at the Halloween Spooktacular on October 28 and 29 from 9 a.m. - 4 p.m. It's sponsored by Fuji Film, McDonald's, Milwaukee/NARI Home Improvement Council, Inc. and WOKY/WML. You can dress in your favorite costume, ride the Ghost Train and Spookmobile, visit the Dungeon of Darkness, march with friends in the

Costume parade and trick and treat throughout the Zoo. Children can have their picture taken free with Ronald McDonald, compliments of Fuji Film from 11 a.m. - 1 p.m. You can also help decorate the Pumpkin Patch by brining a personalized pumpkin.

On Saturday, October 28, participants will "run like the devil" in the 3rd Annual Fuji Fun Run at 5 p.m. Fees include Zoo admission, a trip to the Dungeons of Darkness, a Monster Mash of Entertainment, and free animal noses to augment their costumes. Awards will be given to the three top winners in each division: adult male & female and junior male and female. Special prizes go to first place winners in each division.

On November 11-12, Burger King will sponsor a Behind-the-Scenes Weekend at the Zoo from 9 a.m. - 4 p.m. Visit the veterinary hospital, primate kitchen, bear den— and more.

The Milwaukee County Zoo and American Heart Association will sponsor a 5K Turkey Walk on Sunday, November 26. Call the Heart Association at 271-9999 to register.

December begins with an old favorite—Lunch and Breakfast With Santa. The fee includes Zoo admission, food, entertainment and a special visit and gift from Santa. See the reservation form in this issue for times and details.

Holiday Night Lights is back by popular demand on December 7-10 and 14-17 from 6-9 p.m. The Zoo will be turned into a winter wonderland with entertainment, caroling, romantic carriage rides and, of course, Santa. Picture taking opportunities are available with Santa during both of the December events.

Coming in January: First Wisconsin Day, January 1; and the U.S. Snow Sculpting Competition, January 10-13.



THE CURIOUS CORNER

Why don't dolphins breathe through their mouths?

Six-year-old Christopher Riedl of Brookfield is curious and wants to know.

Dolphins are mammals that spend all their time in the water and breathe the oxygen in the air. They use their long beak-like mouths and sharp teeth to catch fish, their favorite food.

Since fish live in the water, that's a good place for a dolphin's mouth to spend most of its time. If a dolphin breathed through its mouth, it could not catch fish and breathe at the same time. So instead of breathing through its mouth, a dolphin breathes through the blow hole in the top of its head. That way a dolphin can breathe even when its mouth is full of water.

Why do fish have gills?

Christopher's four-year-old brother, David Riedl, is curious and wants to know.

Like dolphins, fish need to breathe oxygen. Instead of breathing oxygen

from the air, fish breathe oxygen that's dissolved in the water. There is a lot more oxygen in the air than in the water, so it's a lot harder to get oxygen from the water. That's why fish have gills. Gills are special adaptations that bring the fish's blood very close to the water where it can soak up oxygen. Next time you see a live fish, look at its gills. This bright red color comes from the blood inside them soaking up oxygen.

Does it hurt when the horn of the black rhinoceros falls off?

Six-year-old Gary Klein of Waukesha is curious and wants to know.

A rhino's horn is made of the same substance (keratin) as your fingernails. It is firmly anchored beneath the skin so it cannot fall off, although sometimes it breaks or wears down. Sometimes this hurts the rhino and sometimes it doesn't. It just depends on where the horn is broken. If the tip is broken, it doesn't feel much different than when you trim or file your fingernails. However, if the horn breaks at its base, the rhino feels it. It probably hurts about as much as when you break a fingernail.

When the two black rhinos arrived at the Milwaukee County Zoo on July 18, the female broke her horn off at its base. It probably hurt a little at first but it has

healed well and will soon grow back.

Why do koalas spend most of their time in trees?

Ten-year-old Nicole Sewall of Brookfield is very curious and wants to know.

Koalas are furry little Australian animals that eat leaves, especially leaves from eucalyptus trees. Eucalyptus leaves are not very nutritious so koalas must eat a lot of them to survive. Since leaves grow on trees, that's where you will find koalas during most of their waking hours. Their long claws and grasping hands and feet are ideal for living in the trees, but not very good for travelling on the ground. When they are not eating they conserve energy by moving very slowly and sleeping up to 18 hours per day. The ground would be a very dangerous place for slow-moving or sleeping koalas so they stay in the trees.

If you are a curious person, age 12 or younger, who has a question about animals or the Zoo, write to "The Curious Corner", c/o ALIVE magazine, 10005 W. Bluemound Rd., Milwaukee, WI 53226. If your question is selected for publication, you will receive an inflatable Jungle Giraffe. The three foot tall animal includes fun facts about the giraffe. It retails for \$15.

SPECIAL

Zoo-Goers Enjoy a "Zooper" Summer



RIGHT: Renowned conservationist, Jim Fowler, helped the Zoo to celebrate Animal Appreciation/Conservation Weekend—and kicked off the summer season. Many local and national conservation groups shared their knowledge of the natural world and educated visitors on the importance of conserving the environment on June 10-11.

RIGHT: It seemed like the entire city came out for the Sentinel's Milwaukee a la Carte, August 17-20. Over thirty restaurants participated in this movable "feast with the beasts." Music at four stages provided outstanding entertainment throughout this exceptional food festival.

BELOW: Celebrities, Del Harris, Bob Reitman and Revie Sorey, auction off unique sports items at a golf outing at the Ozeukee Country Club. Golfers had the opportunity to play with former greats from the Green Bay Packers and Chicago Bears—and help the Zoological Society support the creation of underwater viewing of the sea lions at the Zoo.



RIGHT: County Executive, David Schulz, opened Old Style Terrace during the "Night in June Picnic" on June 8. Thousands of Zoological Society members enjoyed animal demonstrations and live music at this exclusive "members only" event.



Photos by Mike Nepper

They're Here!

After a three-year wait, two black rhinos arrived safely in Milwaukee on July 18. Their three-day trip from Zimbabwe included stops in Frankfort, Texas, Columbus, and Chicago. They were brought to Milwaukee by truck from O'Hare Field.

The female's horn came off when she butted her head against the shipping crate. Rhinos horns are made of material much like fingernails or hair and eventually grow back.

The rhinos are on display in the pachyderm building. Although in good health, the rhinos have parasites, as do most wild-caught animals. They will be released into their outdoor yard as soon as they are "bug-free."



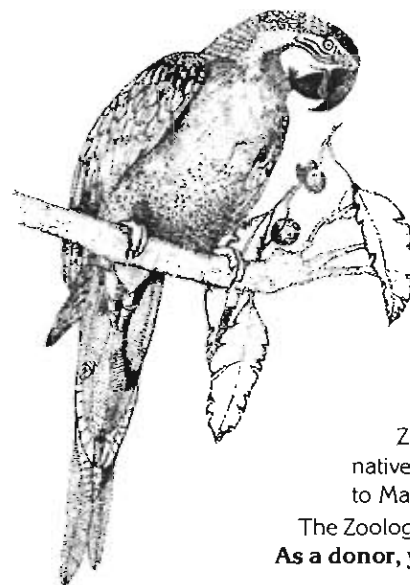
photos by Mike Nepper

TOP:
Zoo staff checks on the rhinos before they are trucked to Milwaukee from Chicago.

ABOVE RIGHT:
The female appears tired after her long trip. Her horn, which broke off enroute, is expected to grow back.

ABOVE:
The male rhino is coaxed into his new home at the Milwaukee County Zoo.

RIGHT:
Steve Forsyth of Miller Brewing Company holds the rhino horn. In 1986, the employees of Miller donated funds to rescue and relocate the black rhinos.



The Aviary Will Open in Living Colors

The Zoological Society is assisting the Milwaukee County Zoo with a special project—the renovation of the aviary. This year, you can help support the purchase of exotic and endangered birds and habitat needed to create an outstanding new aviary. Visitors will get a tree-top perspective of magnificent free flight halls. A shore bird exhibit will incorporate the action of the ebb and flow of surf. The birds will be surrounded by exotic plants and trees to help them feel right at home and encourage breeding.

Help us make this dream become a reality by responding generously to a letter you will receive within the next few weeks. Then watch for the aviary grand opening in 1991 and attend an exclusive premiere. View the Zoo's Rockhopper Penguins, Razor-billed Curassows and Congo Peacocks, to name a few, living among their native habitat of Black Olive trees towering 24 feet high, Coffee trees native to South America and exotic palms native to Madagascar. Admire all this *in living color*.

The Zoological Society will be funding half of the \$2.8 million project. Our immediate goal is to reach \$50,000 with your help. **As a donor, your name will be displayed on a special recognition board to be permanently displayed in the aviary.**



Help Us Save the Rhino

We have taken the first step toward the preservation of a species with the rescue of two black rhinos from the poacher's grip. But this is only the beginning. Successful breeding of captive rhinos in conjunction with world-wide public awareness will bring these magnificent animals back from the brink of extinction. You can help by purchasing "The Last Rhino" print or poster.

A top quality poster for \$20, or a limited edition, signed and numbered lithograph for \$50.

Make checks payable to:
The Zoological Society
of Milwaukee County
10005 W. Bluemound Rd.
Milwaukee, Wisconsin 53226



FUJI COSTUME FUN RUN

Saturday
October 28, 1989
at the
Milwaukee County Zoo



10001 W. Bluemound Rd.
Milwaukee, WI 53226



COURSE: 2 miles

DIVISIONS: Adult-Male, Adult-Female, Junior (14 & under)-Male, Junior (14 & under)-Female, Chairs. Awards will be given to the first three overall winners in each division. (This is not a scored event)

AWARDS PRESENTATIONS: 7 p.m. (Peck Welcome Center)

ENTRY FEE: \$6.00 pre-registration
\$8.00 race-day registration (Both are non-refundable)

REGISTRATION: Mailed entries must contain FULL FEES and be received by October 16, 1989. A RACE CONFIRMATION CARD will be sent to all mailed entries. After October 16th, all runners should register in person at the Zoo. Runners may also register on RACE DAY from 3 p.m. to 4:30 p.m.

RACE DAY PACKETS should be picked up on race day from noon to 4:30 p.m.

- Come in costume but leave your face to us, a plastic animal nose will be included in your race packet.
- Entry fee also includes race number, admission and parking fee for runners after 12 p.m. (noon) on Saturday, October 28, 1989.
- MONSTER MASH, 6 p.m. - 10 p.m. entertainment & fun in the Peck Welcome Center.
- Refreshments after race.

FUJI FILM & CAMERAS
A new way of seeing things.

Halloween Costume Fun Run

Saturday, October 28, 1989

5:00 p.m.

NAME (LAST NAME FIRST) _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Area Code _____ Telephone Number _____ SEX _____ AGE _____

Male Female Male Female

RELEASE OF ALL CLAIMS:
To be signed by each participant for parent/guardian if under 18:
I hereby release The Milwaukee County Zoo, and all sponsors, officials and volunteers involved in this race from any liability incurred or in any way related to my participation in the 1989 Halloween Fun Run.

Signed _____ Date _____

Total fee enclosed \$ _____
Entry Fee \$6 (non-refundable)
\$8 race day (non-refundable)

Each entrant must submit all information for registration is not complete.

MAKE CHECKS PAYABLE TO AND MAIL TO:
Halloween Fun Run
Milwaukee County Zoo
10001 W. Bluemound Rd.
Milwaukee, WI 53226

I am unable to participate in this event. Please accept my contribution of \$ _____



Lunch/ Breakfast with Santa

The holidays aren't far away, so get your reservations in early to have breakfast or lunch with Santa at the Milwaukee County Zoo.

Enjoy a hearty meal, entertainer Robbie Clement and a visit with Santa! It's a special way to celebrate the holiday season.

December 2 & 3, 9 & 10, 16 & 17

Ticket Prices

\$7 per person

*Price includes Zoo admission.

Parking \$3.

Reservation Form

Please send _____ tickets for the following date and time:

December 2 9 a.m. _____

Noon _____

December 3 Noon _____

December 9 9 a.m. _____

Noon _____

December 10 Noon _____

December 16 9 a.m. _____

Noon _____

December 17 Noon _____

I am enclosing a check or money order for \$ _____ payable to Lunch with Santa Milwaukee County Zoo and a self addressed, stamped envelope.

Name _____

Address _____

Phone _____

Please send reservation form and payment by November 24, 1989 to:

Lunch with Santa
10001 W. Bluemound Rd.
Milwaukee, WI 53226

5% Wisconsin sales tax included in ticket price.

"Cry of the Kalahari" Authors to Visit Milwaukee

Mark and Delia Owens, respected scientists and authors of the best-seller, *Cry of the Kalahari*, will appear at the Milwaukee County Zoo on **Thursday, October 25**. Their visit is sponsored by Zoological Society of Milwaukee County.

The Owens have lived in Africa since 1974 where they have conducted well respected research and conservation projects. Using radios and tracking gear, they studied lions and brown hyenas for seven years. They also worked on a project in the unexplored wilderness of North Luangwa, Zambia. By studying the competition among carnivores, such as lions, leopards and spotted hyenas, they are learning of ways to protect these creatures from disease and poachers.

The presentation, including slides and film, will begin at 7:30 p.m. on Wednesday, October 25 in the Peck Welcome Center at the Zoo. Guests can meet Mark and Delia at a reception and book signing following the lecture.

The cost is \$8 for Society members; \$10 for the general public. You can reserve seats by making a check payable



to the Zoological Society of Milwaukee County and mailing to 10005 W. Bluemound Rd., Milwaukee, WI 53226. For additional information, call Sue Slater at 258-2333.

Matching Gifts Will "Double Your Dollar"

Your contribution to a non-profit organization, such as the Zoological Society of Milwaukee County, can have double the impact if you work for one of the matching gift companies on the list below. Double your dollar in three easy steps:

- 1 Locate your company's name on this list. **If your company doesn't have a matching gift program yet, ask them to be one.**
- 2 Obtain a matching gift form from your personnel office.
- 3 Send a completed form, with your gift donation to the ZOOLOGICAL SOCIETY.

MATCHING GIFT COMPANIES

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Wisconsin Energy Corporation

These companies support organizations which have an impact on the community where their offices and plants are located. Even when companies do not employ volunteers or members of local non-profits, they still receive indirect benefits from cultural contributions. In addition, many companies match gifts from retired employees and employee's spouses.

When your company "doubles your dollar," you receive twice the satisfaction, and the Zoological Society receives twice as much support.

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10,000 PLATINUM CORPORATE

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5,000 GOLD CORPORATE

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Milwaukee Meets Brazil in Overseas Zoo Training Program

by Richard Sajdak
& J. Andrew Teare, DVM

Animal management techniques have changed dramatically over the last 20 years in zoos across North America. In particular, as replacement animals became difficult, expensive, or impossible to obtain from the wild, zoo managers were forced to take a more active role in planning and managing the reproduction of zoo animals.

To help ensure the long-term survival and propagation of some critical species, cooperative management programs developed between North American zoos. These programs have culminated today in the Species Survival Plans (SSPs). Within an SSP, North American zoos participate in helping to save that species for our future. The black rhinoceros that recently arrived in Milwaukee are part of an SSP. This zoo has agreed to devote certain resources to maintain and reproduce this species. While only a small fraction of this zoo's total resources are committed to the black rhinoceros, the overall effect of the SSP is to pool the efforts of many zoos. The problems of creating and maintaining a captive population of black rhinoceros for the next 100 to 200 years, can then be addressed with resources unavailable to individual zoos. Currently more than 50 species have survival plans formulated or in the process of being formulated.

Over the last few years, it has become clear that even if the resources of all the zoos in North America were focused through SSP's, we could save only a fraction of the endangered species. European zoos have begun to formulate cooperative programs that are essentially identical to the American SSP's. More recently, the Australian and New Zealand zoos have begun to explore cooperative

Conservation and outreach education are important missions of the Zoological Society. Fees from memberships and other donations allow the Society to fund participation of the Zoo's animal staff in a cooperative program with the National Zoo, the "Zoo Biology and Animal Management Training Program." This outstanding program sends American zoo staff to facilities in Third World countries to teach management and conservation techniques. The following is an account of Milwaukee County Zoo staff members, Dr. J. Andrew Teare, senior staff veterinarian, and Richard Sajdak, Curator of Aquarium and Reptiles. In October, 1988, they traveled to Brazil to participate in the program.

programs. It is only a matter of time before some species are managed by zoos on an international basis.

Dr. Christen Wemmer, assistant director for conservation and research at the National Zoo, recognized that while newer concepts and techniques in captive animal management were being spread throughout the developed nations, this knowledge often was not available or utilized in developing nations. The Zoo Biology and Captive Animal Management Training Course was conceived and developed by Dr. Wemmer as an attempt to close this knowledge gap and to allow zoos in developing nations to join and contribute to the international zoo community. The program was initially developed with seed money from the Smithsonian Institution and continues to function with support from the Pew Foundation. The program unites three to five North American zoo professionals, with different areas of expertise, at a zoo in a developing nation. Managerial level staff from other zoos in that country (and sometimes neighboring countries) are invited to attend the training program for a series of lectures and "hands-on" exercises that last three to four weeks. The first course was given in Thailand in October and November of 1987.

In October 1988, we traveled to Sao Paulo, Brazil as part of the lecture team for the third training course. Other instructors were Chris Wemmer, Charles Pickett, assistant curator of birds at the

National Zoo, and Jacques Prescott, curator of education and research at the Quebec Zoo in Canada. (Rich Sajdak's participation in the program was possible because of support of the Zoological Society of Milwaukee County.)

Over 40 students attended the course representing a dozen Brazilian zoos.



photo by J. Andrew Teare

Instrumental in having the course brought to Brazil and obtaining the support of the Sao Paulo Zoo was Faical Simon, assistant director of the Sao Paulo Zoo. Several zoo directors were present, in addition to assistant directors, curators, assistant curators, veterinarians and senior keepers.

Sao Paulo is located in southern Brazil in a highland area between the warm, humid coastal region and the cooler, drier grasslands of the pampas. Spring weather in Sao Paulo was changeable; when

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Investigating the Tartarugas of Belem

"If you're interested in Tartarugas, you should come to Belem—we breed them there." Tartarugas, Arraus, Giant Amazon River Turtles, call them what you will, I was interested. Onassis, the Milwaukee County Zoo's female Giant Amazon River Turtle, and the oldest reptile in the collection, has been a favorite of keepers and visitors alike for many years. Only months before, I had finally been successful in finding an adult male river turtle to pair with Onassis. Tartarugas have never been bred in US zoos, and breeding these turtles is a major goal of the Milwaukee Zoo's aquarium/reptile staff. This invitation by Antonio Carlos Lobo Soares of the Museo Paraense Emilio Goeldi's zoo in Belem would give me the opportunity to see a facility where Tartarugas are bred. This was an opportunity to move our program along immeasurably.



photo by Richard Sajdak

The Tartaruga is one of the largest freshwater turtles in the world. The largest recorded specimen was a female with a shell length of 35 inches. Specimens weighing up to 200 pounds have been reported in former times. (Onassis is 31 inches and 110 pounds.)

The Tartaruga has always been an important and conspicuous part of the Tropical South American region. It is a highly migratory species, and nests in large aggregations on a small number of major nesting grounds. Early explorers write of huge nesting aggregations estimated at up to 330,000 individuals. It has been subject to excessive exploitation for meat and eggs since the mid-19th century, and today it is very rare or absent throughout the entire upper Amazon. Tartarugas are listed as endangered by the U.S. Endangered Species Act.

After discussion with Antonio Carlos, Chris Wemmer and the other instructors, we decided that I would stay with Antonio Carlos in Belem for the last four days of our trip.

I arrived in Belem after dark. The city is an interesting contrast to Sao Paulo—hot, muggy. After the cooler climate of Sao Paulo, and the shock of its high-rise skyline and fourteen million inhabitants, Belem is almost exactly how I had pictured Brazil—older, with low buildings, although still a big city.

The next day, I'm off to the zoo. Met Jim Ellis, an American working at the zoo. Got the tour—many interesting animals—Amazonian Manatee, Black Caiman, Pirarucu (a giant Amazonian fish said to reach over 12 feet in length), and of course, the Tartarugas.

The turtle display was imposing. It was a pool about 100 feet long and 30 feet wide, with

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Headlots of hatching turtles at the Belem Zoo left to right: Tartaruga, Traaja, and Piliu.

Turtles

a 30 x 60 foot sandy basking area/nesting beach. And the turtles! The entire surface of the pool was dotted with heads. According to Jim, over 100 adult turtles are kept in the enclosure. Every year since the 1930's many females have dug nests on the beach and laid eggs. The eggs are left in place, and later nesters will dig up and destroy earlier nests. Hatchlings found in the pool several months later, are captured and taken to a smaller, shallower rearing pond. Zoo records are unclear, but it seems certain that hundreds of baby turtles are hatched at the zoo each year.

My first impressions of the Tartaruga setup here were mixed. Apparently, no very exotic techniques will be necessary to duplicate Belem's conditions in Milwaukee. Their diet is similar to ours: fruits, vegetables and fish. Looking at the numbers of turtles made me wonder, however. Tartarugas in nature are colonial nesters, migrating hundreds of miles to traditional nesting beaches. What if such dense groups of turtles are necessary to stimulate mating or nesting? Some sea turtles are known to mate just off the nesting beaches, and some colonial birds (notably flamingos) seem to need crowded conditions and large numbers to successfully reproduce in captivity. How do we mimic those conditions in Milwaukee with only two turtles?



photos by Richard Sajdak



Rows of Amazon River catfish in the Belem market (left). Rich measures a ten-year-old Tartaruga at the Sao Paulo Zoo (above).

After thinking things over, my plans changed. I had hoped to take a series of measurements and weights on the adult turtles here, but that wasn't possible. They were having trouble with the drain in the Tartaruga's pool, and weren't able to drop the water for captures. Anyway, the turtles looked too big and heavy for my borrowed scales and calipers. My revised plan was to concentrate on the hatchlings. I took a series of shell measurements and weights on the babies and marked them for future work by notching the shells. The measurements can be combined with a similar set of measurements taken on 17 ten-year-old Tartarugas in the Sao Paulo Zoo, and will be helpful in working out growth rates and development of external sexual characteristics. Sex determination in adult Tartarugas is easy; in hatchlings it's impossible. Maybe a repeated set of measurements over the years will show the development of secondary sexual characteristics and allow sex determination at an earlier age.

We collected pails full of turtles and began. The zoo has a large number of Tracaja or Yellow-headed River Turtles and a very few Pitiu or Dwarf River Turtles as well. A student

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photo by Richard Sajdak

the wind was from the south, it was often cool enough to warrant a light jacket, while the wind from the ocean would make it warm and humid. The city of Sao Paulo is one of the largest in the western hemisphere, with 11.18 million people (depending on how many of the suburbs were included in the count). It is also the most prosperous city in Brazil, with rows of high-rise buildings from horizon to horizon.

The intensive course of lectures, workshops and class exercises ran five and a half days a week for three weeks. Lecture topics included animal identification (why and how), record keeping, animal handling, capture and transport, animal immobilization, cage and exhibit design, neonatal examination, preventative medicine, behavioral observations, and public education. While most of the lectures focused on equipment and techniques available in Brazil, there were also lectures on computerized animal record systems. Few Brazilian zoos can afford computers and none use them for animal records, but all of the participants were eager to try their hand at the keyboard.

As had been done in previous classes, the curriculum was modified "on the run" to take advantage of opportunities or to address problems unique to Brazil. One special concern was keeper training. Pay rates are very low and virtually all keepers in Brazilian zoos are illiterate. This creates extra demands on the managerial staff, as all instructions must be given orally.

Andy Teare demonstrates the use of laparoscopy for sex determination in birds (left). A classroom session during the Zoo Training Program (below).

Record keeping must be done by curators and veterinarians. Within the classroom, discussions, sometimes quite heated, were held about the value of keeper training and methods that could be used



photo by Andrew J. Teare

with illiterate keepers. Some of the participants maintained that it was impossible (or at least impractical) to train such keepers, while others argued that it was possible (though difficult) and would have great benefits to the animals and the zoo. For this particular problem, the course did not offer a final solution, but an exchange of ideas. Hopefully, there would be an increase in interest and commitment to keeper training by participants.

Brazilian zoos also labor under an unexpected and crushing burden. The extensive deforestation and development occurring in Brazil leads to large

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volunteer helper and I decided to take comparative measurements on a group of these turtles also.

Spent the morning with Antonio Carlos and his young son, Marcelo, at the river front fish market.

What a variety! Baskets full of armored catfish two inches long (what ever can they do with such tiny, bony fish?); piranhas; arowanas; oscars; all pet store fish in the U.S., lined up in Brazil on food counters for sale. Catfish! Shovelnose cats like those our keepers had feed each day, are lying gutted on tables. Sad note—many fish, catfish especially, are found in the markets at very small sizes. Jim Ellis told me that in the six years he has been in Belem, several kinds of fish which were formerly common in the markets have stopped showing up, most likely victims of such indiscriminate harvest.

The flight back to Sao Paulo is scheduled for 3 p.m. Antonio drove me to the airport, where we discovered that the flight times are given in Sao Paulo time, one hour ahead of Belem time. The plane had already left, so instead of a quiet flight and an evening in Sao Paulo to get ready to leave the next day, we spent a hectic afternoon and evening arranging another flight. I arrived back in Sao Paulo every early on the 16th, and scrambled around all day packing to leave for the states that evening.

Pursuing Tamarins and Tapirs

We climbed out of the car parked beside the highway, stretched our cramped muscles and gazed out over tropical forest as far as the eye could see. Chris walked down the embankment and almost immediately found the mandible (lower jaw) from a tapir. As Chris turned it over in his hands, examining the teeth for wear, Christiana, our host, explained that the animal had probably been killed by a car. We looked for more bones, but the rest of the skeleton had been carried off by scavengers or washed away by the heavy seasonal rains.

Behind us, the tracker was swiftly assembling a portable radio tracking unit. In only a few minutes, he had the directional antenna assembled, connected to the radio receiver and donned a set of earphones. Tuning the receiver to the correct frequency, he lifted the antenna over his head and began to rotate it through 180 degree arcs, sweeping the airwaves for the telltale clicking that would lead us to a family of black lion tamarins.

The zoo training course had ended two days before and three of the instructors (Dr. Chris Wemmer, Charles Pickett and myself) had accepted an invitation from one of the students, Christiana Martins, to visit Parque Estadual Morro Do Diabolo. In this forest reserve, the only known population of black lion tamarins survives. Once feared extinct, remnant population of this squirrel-sized primate was discovered only a few years ago. Christiana had been working in the forest reserve as an assistant to a Brazilian graduate student studying the ecology and behavior of this tiny monkey. Like other tamarins and marmosets, the black lion species lives in family groups consisting of an adult pair and their offspring. Young animals stay with their parents for the next one to three births, helping to care for their younger siblings. When they have gained experience with family life, the older offspring leave the group to find a mate and raise their own families. As twinning is quite common, family groups often consist of six to eight animals of various ages.



photo by J. Andrew Teare

Radio tracking tamarins in Parque Estadual Morro Do Diabolo.

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Tamarins

Tiny radio transmitters attached to collars on some of the tamarins in the reserve produce a signal that can be received several hundred yards away. Sometimes, the tamarins come close enough to the highway to be easily located by the tracker. Today, however, we will have to walk the trails through the forest until our meanderings bring us close enough to a transmitting family group to detect the signal. From that point on, the directional antenna would allow us to zero in on the animals.

We walked almost an hour before the tracker picked up the first indications that there were tamarins in the area. Smiling, the tracker unplugged the earphones and the tiny speaker in the radio receiver hissed with static. In the background was the faint regular clicking from a tamarin transmitter. The tracker turned the antenna slowly from side to side. Another 90 minutes went by as we pushed through the underbrush and I was trying to decide which plant I liked the least, the one covered in one-inch thorns or the one with the razor sharp leaf edges. During the last half hour, the tracker had stopped several times, listened to the signal and had then changed the direction of our march. The signal has also stopped getting louder. It was obvious that the tamarin family was on the move and, unfortunately, they seemed intent on moving through the forest ahead of us and not towards us.

Christiana was hoping to start a research project of her own and was interested in studying South American tapirs. Little is known about tapirs in the wild, as this shy and elusive animal is rarely seen in the thick forest of its native habitat. Despite evidence that tapirs were abundant in the reserve, Christiana had yet to see a live tapir during the two years that she had worked in the forest. We were there to see the proposed study site and to offer suggestions for data collection methods and research project design. Careful project design would be required for any research on this animal to yield useful information.



photo by J. Andrew Teare

Eventually, the tracker had us wait while he went on alone. After about 15 minutes, the tracker returned and signalled for us to follow quietly. A relatively short walk brought us to a larger tree, whose crown rose above the surrounding canopy into the sunlight. The tracker pointed up into the tree. Christiana was the first to spot a tamarin among the branches, and quickly oriented Chris and Charlie to the correct branch. I, however, was having more trouble and had just located the tamarin when it decided that the far side of the tree was more appealing and it disappeared from sight.

We asked the tracker how many tamarins he had seen. He told us that there were three or four up in the tree! We began encircling the base of the tree hoping for more glimpses of the tamarins. Perhaps it was the sight of five humans surrounding their tree, or maybe it was just time to move on, at any rate the tree seemed to come alive with tamarins and their chirping, bird-like calls. Moving quickly to the lowest branch, one after another, the tamarins launched themselves across the gap into the branches of a neighboring tree. Viewed from below, the tamarins were too high and moving too quickly for us to gain much more than impressions. It was only during the jump that it became clear that we were looking at monkeys. For a brief instant, each tamarin was silhouetted against the sky, arms and legs spread

wide as they sailed through the air towards the branches below. To our surprise, we counted five tamarins in the group leaving the tree. After that, there were only fleeting glimpses as the family moved rapidly away from us through the treetops.

In the evening, we sat and talked with Christiana about suitable techniques for studying tapirs in the wild. We had seen considerable evidence of tapir inhabitation, in the form of tracks trails and piles of fresh feces, but no tapir.

As part of the training course, we had anesthetized several tapirs in zoos, using drugs available in Brazil; fitted one of these captive animals with a leather collar to demonstrate the feasibility of using radio transmitter collars; and had

measured the neck size of the other animals. As a result, Christiana had gained knowledge about drugs and doses to safely anesthetize tapirs, information about techniques and materials to collar animals, and approximate collar lengths that would be needed for adult animals. We also talked with Christiana about techniques to gather information about tapirs in the wild without having to locate living animals. Feces contain information about diet, therefore, by counting the number of piles of fresh droppings in a given area, an estimate of population density can be made. When combined with observations from captive tapirs, Christiana could actually complete a project and learn considerable information about wild tapirs and the way these animals live.

As for the tamarins, we did manage to see more of the little creatures later that same day, including a wonderful ten minutes watching one animal feeding on fruit at the top of a tree. However, we will spent almost six hours in the forest for less than 30 minutes of tamarin viewing. Was it worth it? For me, it certainly was. I have had the pleasure and privilege of observing wildlife in forests, jungles, grasslands and deserts around the world, and these experiences have always emphasized the uniqueness of each species and the variety of life present even in the harshest ecosystems. It was being estimated that our world is currently losing a species a day. If we are to save even a fraction of the great diversity of life on earth, we need to begin now. We need to conserve and educate not just in this country, but throughout the rest of the world.

Difficult to locate, even more difficult to photograph! This picture does not do justice to this beautiful little primate.



These acres of holding cages give only a hint of the surplus animal problem faced by many Brazilian zoos.

photo by Richard Sajdak

numbers of wild animals being displaced from their natural habitat. Concerned citizens and governmental agencies capture these homeless animals, but Brazilian law makes it virtually impossible for native wild animals to be owned by private individuals. The solution for the government and the public is to donate these animals to zoos. Unfortunately, federal laws also prevent zoos from reintroducing these animals back into the wild, resulting in a massive zoo overpopulation problem. All the zoos we visited had dozens to hundreds of donated parrots, tortoises, and monkeys, often housed in less than adequate facilities. One possible solution, shipment to foreign zoos, is extremely difficult to arrange. The Sao Paulo Zoo had just sent 100 cebus monkeys to the U.S.A. for the "Hands for the Handicapped" program, but this shipment had hardly dented their surplus of monkeys.

One of the more valuable teaching tools were the "hands on" class exercises and projects. Some of the projects were: testing a new drug for safety in zoo animals; designing, constructing and testing an interactive, educational display; proposals for renovating the False Gavial (a crocodilian) display to enhance reproduction; developing guidelines for quarantine procedures in Brazilian zoos; and studying anteater behavior and interactions.

Of course, the learning was not all in one direction. The instructors learned about the goals, desires, methods and problems in Brazilian zoos and the simi-

larities to what we face in Milwaukee. The program also gave us a more immediate appreciation for the necessity of international cooperation in conservation work.

An early Wisconsin conservationist, Aldo Leopold, once wrote "a species must be saved in many places, if it is to be saved at all." Forty years later we are faced with the prospect of trying to save hundreds of species. Zoos around the world will provide some of the "many places" to save these species. It seems appropriate for staff from the Milwaukee County Zoo to be involved in this pioneering effort to educate and improve animal management in developing nations. We hope that the Zoological Society will continue to support this zoo training program as it benefits all individuals and institutions involved.



Richard Sajdak is Curator of Aquarium and Reptiles at the Milwaukee County Zoo.

Dr. J. Andrew Teare was committed to teaching this course prior to accepting the position of Senior Staff Veterinarian in Milwaukee. He was given a leave of absence to enable him to fulfill this obligation.



The Milwaukee County Zoo will light up the night at Holiday Night Lights

December 7, 8, 9, 10 & December 14, 15, 16, 17
6 p.m. to 9 p.m.

- Take an enchanting carriage ride through the Zoo's winter-wonderland.
- Enjoy a walk through the Zoo while caroling to the Zoo's cold-weather animals.
- Visit a few of the animal buildings for special holiday entertainment and cheer.

Let the magic of the Milwaukee County Zoo light up your holiday nights!

For additional information contact the Zoo at 256-5412.

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ZOO PRIDE

Bring the Zoo to You

Bring a slice of the Milwaukee County Zoo to your next organization or club meeting! Zoo Pride's volunteer Speaker's Bureau offers a special visit to the zoo through slides of the animals and the exhibits. Our programs are flexible enough to fit into your meeting agenda. For additional information, please contact the Zoo Pride office, 258-5667.

Walking on the Wild Side

Zoo Pride is pleased to provide two different ways to view the Zoo . . . Our walking tours offer the opportunity to learn more about our animals while leisurely enjoying a walk through the park, while our V.I.P. Behind the Scenes tours offer the opportunity for VIP's, 12 years of age or older, to walk in and around the animal exhibits and zookeeper work areas. Be sure to bring your camera as you experience the sights, sounds and smells of a Zoo in operation.

Reserved tours are conducted during regular zoo business hours and can be adapted to accommodate the size of your group.

Phone the Zoo Pride office, 258-5667, for more information and fees.

Frightful Fun

Zoo Pride is pleased to once again be a major part of the Halloween Spooktacular event. The Home Improvement Council/NARI-Milwaukee is again co-sponsoring the Dungeon of Darkness with us. With their help, we are conjuring up a haunted house which is sure to leave you shriekless. Zoo Pride is also preparing areas for the smaller ghouls and boys in the Pumpkin Patch and designing sets for the Spookmobile to allow smaller creatures to hob nob with the goblins at a greater distance.

Zoo Pride gratefully acknowledges the sponsorship of the Home Improvement Council/NARI-Milwaukee in making our contributions to the Halloween event a frightfully good, yet safe, time for everyone.



Celebrate your next birthday with our zooper animals!

Personalized Party Package Includes:

- admission and parking for ten guests and three chaperones
- personalized cake and choice of beverage
- paper products
- private party area
- remembrance gift for each guest
- special birthday gift for guest of honor
- activities and mini-tour of zoo
- planned, coordinated and hosted by Zoo Pride Volunteers
- Cost: \$75 for Society Members, \$100 for non-members
- Plan ahead and reserve a date, now!

CONTACT ZOO PRIDE, 258-5667, TO ARRANGE FOR YOUR PARTY!

PACK YOUR BAGS

Galapagos Islands

The Zoological Society is very pleased to offer three destinations for your travel plans. These safaris have been personally planned by Dr. Gil Boese and each trip will be limited to 18 people.

Galapagos/Cusco, Machu Picchu departs **February 1, 1990**. This is a 15 day adventure with an optional five day extension in the Peruvian Amazon. The Galapagos Islands possess an untamed beauty and enchantment giving one the feeling of being on another planet. Although mere specks in the Pacific ocean, these remote islands have emerged as one of the most significant biological wonders on earth. Due to their geographic isolation, a unique and colorful array of plant and animal life has evolved at the "crossroads of evolution."

There is space available for only seven additional people, so reserve your place quickly.

India

India Revisited departs **October 27, 1990** with an optional pre-tour to Nepal.



Machu Picchu, Peru

Visit Ranthambhore National Park to catch a rare glimpse of tigers, spotted and barking deer, sloth bears and great varieties of jungle fowl. From elephant back and jeeps at Kanha National Park, you can view 300 species of birds, gaur, sambar and wild dog. As a special treat you will have the opportunity to see the Hoolock gibbon, the only primate found on the Indian sub continent. Also included in the tour is a trip to the Keoladeo Ghana Bird Sanctuary. Of course, no trip to India is complete without seeing the Taj Mahal, Humayun's Tomb, the Maharajah's City Palace in Jaipur and other historical sites.

Africa

African Safari departs **February, 1991**, with destinations of Tanzania and Rwanda. The safari features the migration of the Serengeti and the mountain gorilla of the Virunga Mountains.

The trips will be guided by Dr. Gil Boese, President of the Zoological Society. For more information, call Susan Hauke, Administrative Assistant, at (414) 258-2333.

Russia Trans-Siberian Adventure

A spring tour to Russia, "Siberian Express" departs May 7, 1990. This exciting, escorted, all inclusive 14-day trip will focus on the art treasures, architecture, cultures and natural beauty of the Soviet Union. Special arrangements have been to visit Moscow Zoological Museum and Zoo where you will have an opportunity to see Siberian Usuri Tiger and Polar Bear, as well as Museum of Local Lore in Novosibirsk that contains a vast collection of Siberia's plant and animal life. The cities scheduled to be visited are Moscow, Russian capital, Leningrad, often referred to as "Venice of the North", Novosibirsk, Soviet scientific center, and Irkutsk, gateway to Siberia. The highlights of your trip will be a 30 hr. ride on the Trans-Siberian Express, and a day cruise on Lake Baikal, the deepest lake in the world, where you'll experience its unique fauna and flora.

The complete tour cost of \$3,399 per person includes transatlantic air transportation from Chicago via KLM Royal Dutch Airlines, first class hotels, all meals, transfers, air, train, sea and ground transportation in the Soviet Union, guided sightseeing, museums, theaters, baggage handling, visa charges and taxes.

For information and a free brochure please contact Breitenbach Travel/Travel Express of America at (414) 962-3792 or (414) 962-0848. To reserve the space on the tour deposit of \$400 per person is required no later than November 27, 1989.



St. Andrew's Cathedral

Hats Off to Mount Mary College!!

"Wealth of Beauty" weekend was a bountiful success! Children participated in art projects, and adults learned how to take care of vegetable gardens. This special event was made possible by Mount Mary College. The Zoological Society would also like to thank the Zoo gardeners and the University of Wisconsin Extension Service for their able assistance.

Youth Group Workshops

Are you a youth group leader (scouts, 4-H, etc.) looking for something to do with your club or den? We encourage you to participate in one of the special youth group workshops conducted by the education staff and Zoo Pride volunteers. You can bring your group, **ages 6 to 8**, to "Animal Myths and Legends" on Saturday, October 14, at 9:30. Or, bring your **8 to 10** year olds to "Cold Weather Animals" on Saturday, November 18, at 1:30. Each workshop includes a talk, a walk, and hands-on activities. To register your group, call 256-5421. Enrollment is limited to 30, so call early.

Workshops for Three-Year-Olds

The Education Department will offer workshops for three-year-old children from January through April, 1990. A variety of activities to introduce children to the wonderful world of animals will be offered each month. A close-up view of the month's featured animals will make these workshops fun for everyone! One adult must accompany each child during the 1-1/2 hour program. For registration information, send a self-addressed, stamped, business size envelope (one per request) on or before December 1. Send to Tiny Tots Workshop, 10005 W. Bluemound Rd., Milwaukee, WI 53226. Or, pick up the information at the Education Center beginning December 1.

Preschool Workshops

Registration forms for Preschool Workshops (January through April, 1990) for 4, 5, & 6 year olds (in kindergarten) will be mailed out October 30. To receive a brochure and registration form, send a stamped, self-addressed, business-size envelope (one per child), to: Preschool Workshops, 10005 W. Bluemound Rd., Milwaukee, WI 53226, on or before October 30. Or you can pick up the forms and information at the Education Center, Mon.-Fri. beginning October 30.

First Grade Workshops

To receive your listing of second semester workshops for 6 & 7 year old first graders, send a self-addressed, stamped, business-size envelope to: First Grade Workshop, 10005 W. Bluemound Rd., Milwaukee, WI 53226, on or before December 1.

"Animals Through the Camera's Eye"

This popular two-part Saturday workshop will cover special techniques for photographing animals in a zoo setting. Class format includes a lecture/slide presentation, photo "safan" through the Zoo, and a critique of participants' work. The workshop will be held November 8-18 from 9:30-3, plus December 2 at noon. Fee is \$25 for Society members, including parking. Call 256-5423 for a registration form.

Winter Family Workshop

A family workshop, "Winter Bird Feeding," is planned for December 28, 29, & 30. Times for the two-hour workshop are 10 a.m. and 1 p.m. Workshop fee is \$5 per family; parking is additional. Fun-filled classroom activities and an outdoor trek will appeal to all family members. Call 256-5421 for a registration form.

Tracking Camp

A tracking camp for 7 & 8 year olds will be offered Thursday, December 28, and children ages 9-11 can attend on Friday, December 29. This unique camp lasts from 9:30-3:30 and will include a wide variety of tracking activities. The fee is \$12 for Society members. To receive a registration form, send a self-addressed, stamped, business-size envelope to: Tracking Camp, 10005 W. Bluemound Rd., Milwaukee, WI 53226, or pick up information at the Education Center, Mon.-Fri. Camps are limited to 25 participants, so sign up early.

What Would We Do Without You!

Thank you, Cleaver Foundation, for making the Society's Summer Camp program extra special! The sponsorship by the Cleaver Foundation provided several camp scholarships for children of low income families. The funding also helped us purchase additional camp supplies, camp buttons, and many other extras which let us keep the camp fee at 1988 rates. We know that the 2,000 children who enjoyed summer camps also give the Cleaver Family a big round of applause.

New!! 4-H Clubs at the Zoo

The Education Department is starting a 4-H Club for 8 to 11 year old children who are interested in animals and nature studies. We are planning exciting workshops at the Education Center from 9:30-noon on the second Saturdays of January through June. The fee for all six sessions is \$7 for Society members and \$14 for the general public. If your child is interested in participating, send a stamped, self-addressed, business-size envelope to: 4-H Club, 10005 W. Bluemound Rd., Milwaukee, WI 53226.

October 20-22, 27-29

Dungeon of Darkness

Be prepared for a hair-raising visit to a one-of-a-kind haunted house in the basement of the pachy-drem building. Sponsored by NARI/Home Improvement Council and Zoo Pride.

October 28

Fuji Costume Fun Run

It's the only place in town to run a race dressed as a ghost or run with a group dressed as a bunch of grapes. It's all fun and it's all at the Zoo. Call 256-5412 for details.

October 28-29

Halloween Spooktacular

The best place to trick or treat with the whole family is at the Zoo! Ghost train, spookmobile, storytellers, pumpkin patch and much more! Sponsored by Fuji and McDonald's.

November 11-12

Behind The Scenes Weekend

Here's your chance to see behind the scenes at the Zoo including areas such as the animal hospital, aquarium/reptile building and commissary.

December 2-3, 9-10, 16-17

Lunch With Santa

Look for an advertisement in this issue of ALIVE to register for the annual Lunch With Santa (and Rudolph!).

December 8-10, 15-17

Holiday Night Lights

The Zoo is open evenings for carriage rides, caroling and holiday entertainment. Watch for details.

Invite Your Friends to Join the Wildest Club in Town



Enjoy family entertainment—365 days a year. Plus these benefits when you present your card and **drivers license or valid ID.**

- FREE ADMISSION (includes your family if indicated).
- 10% DISCOUNT at all Zoo gift shops when you present your card and valid ID.
- ALIVE subscription. Our fun and educational quarterly publication.
- NIGHT IN JUNE exclusive picnic for you and your family.
- BEAUTY AND THE FEAST annual program which hosts speakers for you and your family.
- SPECIAL MEMBERSHIP PREVIEW of new exhibits and rare animal acquisitions.
- FREE ADMISSION to 115 other Zoos and Aquariums in the United States and Canada. (See list below.)
- DISCOUNT on EDUCATIONAL PROGRAMS.
- Opportunity to join ZOO PRIDE, our volunteer organization, which lends support to a variety of Zoo programs.

Your donation is utilized in education & conservation programs, exhibit renovations, animal purchases, grounds improvements and special events.

Call today to charge a Gift Membership 258-2333.

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| <p>ALABAMA
Birmingham Zoo
Montgomery Zoo
ARIZONA
Reid Parks Zoo (Tucson)
ARKANSAS
Little Rock Zoological Gardens
Northwest Arkansas Zoo (Fayetteville)
CALIFORNIA
Charles Paddock Zoo (Atascadero)
The Fresno Zoo
Knowland Park Zoo (Oakland)
The Living Desert (Palm Desert)
Los Angeles Zoo
Nickie Grove Zoo (Lodi)
Sacramento Zoo
San Francisco Zoological Gardens
Santa Ana Zoo
Santa Barbara Zoological Gardens
Sequoia Park Zoo (Eureka)
COLORADO
Pueblo Zoo
CONNECTICUT
Beardsley Zoological Gardens (Bridgeport)
DELAWARE
Brandywine Zoo (Wilmington)
DISTRICT OF COLUMBIA
National Zoological Gardens
FLORIDA
Brevard Zoo
Central Florida Zoological Park (Lake Monroe)
Jacksonville Zoological Park
Lowry Park Zoo (Tampa)
Miami Metro Zoo
GEORGIA
Chehaw Wild Animal Park (Albany)
Zoo Atlanta
HAWAII
Panaea Rainforest Zoo (Hilo)
IDAHO
Ross Park Zoo (Pocatello)
ILLINOIS
Glen Oak Zoo (Peoria)
Henson Robinson Zoo (Springfield)
John G. Shedd Aquarium (Chicago)
Lincoln Park Zoological Gardens (Chicago)
Miller Park Zoo (Bloomington)
Schovill Children's Zoo (Decatur)
INDIANA
Fort Wayne Children's Zoo
Mesker Park Zoo (Evansville)
Potawatomi Zoo (South Bend)
Washington Park Zoo (Michigan City)
IOWA
Blank Park Zoo of Des Moines
KANSAS
Emponia Zoo
Lee Richardson Zoo (Garden City)
Ralph Mitchell Zoo</p> | <p>Sedgwick Co. Zoo & Botanical Garden (Wichita)
Topeka Zoological Park
KENTUCKY
Louisville Zoological Garden
LOUISIANA
Alexandria Zoological Park
Audubon Park & Zoological Gardens (New Orleans)
Greater Baton Rouge Zoo
Louisiana Purchase Gardens & Zoo (Monroe)
MARYLAND
Baltimore Zoo
Salsbury Zoological Park
MASSACHUSETTS
Franklin Park Zoo (Boston)
Veterans' Memorial Park & Zoo at Buttonwood (New Bedford)
MICHIGAN
Binder Park Zoo (Battle Creek)
John Ball Zoological Gardens (Grand Rapids)
Detroit Zoo
Potter Park Zoo (Lansing)
MINNESOTA
Corno Zoo (St. Paul)
Lake Superior Zoological Gardens (Duluth)
Minnesota Zoological Garden (Apple Valley)
MISSISSIPPI
Jackson Zoological Park
MISSOURI
Dickerson Park Zoo (Springfield)
Kansas City Zoological Gardens
St. Louis Zoological Park
NEBRASKA
Folson Children's Zoo (Lincoln)
Henry Doory Zoo (Omaha)
Heritage Zoo (Grand Island)
NEW JERSEY
Turtle Back Zoo (W. Orange)
NEW MEXICO
Alameda Park Zoo (Alamogordo)
Rio Grande Zoological Park (Albuquerque)
NEW YORK
Buffalo Zoological Gardens
Burnet Park Zoo (Liverpool)
Ross Park Zoo (Binghamton)
Seneca Park Zoo
Slaten Island Zoo
Ulica Zoo
NORTH CAROLINA
North Carolina Zoological Park (Ashboro)
NORTH DAKOTA
Dakota Zoological Society, Inc. (Bismarck)
OHIO
Akron Zoological Park
Cincinnati Zoological Gardens</p> | <p>Cleveland Metroparks Zoological Park
Columbus Zoological Gardens
Toledo Zoological Gardens
OKLAHOMA
Oklahoma City Zoological Park
Tulsa Zoological Park
OREGON
Washington Park Zoo (Portland)
PENNSYLVANIA
Erie Zoo
Gettysburg Game Park (Fairfield)
Philadelphia Zoological Garden
Pittsburgh Zoo
TEXAS
North American Wildlife Park (Hershey)
RHODE ISLAND
Roger Williams Park Zoo (Providence)
SOUTH CAROLINA
Greenville Zoo
Ryebanks Zoological Park (Columbia)
SOUTH DAKOTA
Bramble Park Zoo (Watertown)
Great Plains Zoo & Museum (Sioux Falls)
TENNESSEE
Knoxville Zoological Park, Inc.
Memphis Zoological Garden & Aquarium
TEXAS
Abilene Zoo
Buffalo Zoological Gardens
Caldwell Zoo (Tyler)
Central Texas (Waco)
Dallas Zoo
Ellen Trout Zoo (Lufkin)
El Paso Zoological Society
Fossil Rim Wildlife Ranch
Clayds Porter Zoo (Brownsville)
San Antonio Zoological Gardens & Aquarium
The Texas Zoo (Victoria)
UTAH
Hogle Zoological Garden (Salt Lake City)
VIRGINIA
Mill Mountain Zoological Park (Roanoke)
WASHINGTON
Point Defiance Zoo & Aquarium (Tacoma)
Woodland Park Zoological Gardens (Seattle)
WEST VIRGINIA
Good Children's Zoo (Oglebay)
Oglebay Good Children's Zoo (Wheeling)
WISCONSIN
Henry Vilas Zoo (Madison)
International Crane Foundation (Baraboo)
Racine Zoological Gardens
CANADA
Calgary Zoo, Botanical Gardens & Prehistoric Park
Jardin Zoologique de Granby, Inc.
Reptile Breeding Foundation</p> |
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