

THE MARYLAND ZOO  
IN BALTIMORE

2014-2015 ANNUAL REPORT





# our mission

engaging people with the wonder of the living world  
through personal encounters that  
foster lifelong harmonious relationships with nature

If you haven't visited The Maryland Zoo in Baltimore in a while, now is the time. You will be amazed. It is not quite as you remember. An enchanting new exhibit that evokes a rocky island off the shores of South Africa now dominates the heart of the Zoo, with African penguins closer than ever. Flamingos are back, lemurs are leaping, leopards are prowling, and animals both familiar and exotic are around every turn. You will see and experience many new things.

And yet, in many ways, the Zoo is as you remembered. It is still a magical place in the middle of Druid Hill Park in the middle of Baltimore City, where learning is thrilling and memories are made and chance encounters with wildlife can change a heart or a mind or even a life. This is your zoo, the zoo that you know and the zoo that we invite you to get to know all over again. Come for a visit and see for yourself.

This annual report catalogues the immense and impactful work of the Zoo over a 12-month period from July 1, 2014 through June 30, 2015. During that time, 426,534 guests visited the Zoo and more than 12,000 member families supported the Zoo.



**HUGO J. WARNS III**

CHAIRMAN OF THE BOARD OF TRUSTEES

### *Letter from the Chairman*

This past fiscal year was an exciting time to begin my term as Chair of the Zoo's Board of Trustees. The game-changing *Penguin Coast* exhibit, the dazzling new flamingo exhibit, and the stunningly renovated Marsh Aviary all opened to the public. Zoo staff worked very hard and with tremendous professionalism to get each of these exhibits open, and visitors have been greatly appreciative of the Zoo's new look and fresh experiences. I know what went into making these exhibits and these experiences possible, and every time I am on grounds, I continue to be impressed by our hard-working staff and our many dedicated volunteers.

What you see as a visitor is just the tip of the iceberg here. Consider the special events that we host throughout the year - for example, perhaps you attended Brew at the Zoo. The two-day event was a huge success, attracting 10,000 people and raising over \$400,000 for the Zoo. The event itself spans 48 hours, but Zoo staff spent more than six months preparing for it while at the same time organizing other popular events such as Sex at the Zoo, Bunny BonanZoo, and the Breakfast with the Animals series sponsored by Constellation.

The Zoo is not only a destination for thousands of visitors, a place to have fun, and a vibrant place to learn, but also an organization dedicated to animal welfare and wildlife conservation. We are here to serve our visitors and to provide the best possible care for our animals, but we also prioritize participation in research studies that help build the body of scientific knowledge and data that influences care, management, and conservation policies affecting countless species around the globe, whether in zoos or in the wild. In FY15, Zoo veterinary and animal staff contributed to research on African elephants, African penguins, Panamanian golden frogs, polar bears, and slender-snouted crocodiles, to name a few. Their work is detailed in this annual report for your review.

I am gratified to note that support for the Zoo remains strong. In FY15, hundreds of thousands of visitors made their way to the Zoo, more than 12,000 families supported the Zoo through memberships, and several hundred more individual donors, corporate members, and foundations supported the Zoo's daily operations, capital projects, and education and conservation programs. The City, the State, and the citizens and leaders of Baltimore, Carroll, Howard and Harford Counties continue to show strong support for the Zoo as well, for which I remain very grateful.

I am enjoying my opportunity to serve The Maryland Zoo in Baltimore and I look forward to another great year in Druid Hill Park.

A handwritten signature in black ink, appearing to read 'HJ Warns III', written in a cursive style.

Hugo J. Warns III, Chair, Maryland Zoological Society, Inc

### *Letter from the President*

An annual report can be a daunting publication to develop, with each department combing through its records to provide an account of work completed, milestones met, and experiences created here at the Zoo. It is made all the more challenging by the fact that Zoo life is fluid. The completion of a brick-and-mortar project launches the start of programs, experiences, events, and other happenings that will contribute to guest experience, animal welfare, and overall Zoo life for years to come.

This fiscal year, we opened *Penguin Coast* to great reviews and the penguins surprised us all. They adapted well to the new exhibit, with the colony producing six chicks last breeding season despite all the novelty and excitement. It has been gratifying to watch the penguins thrive in their new surroundings and to talk to visitors, who are so complimentary of the exhibit and its many opportunities for viewing and interaction. It's nice that the cormorants are also getting much-deserved appreciation now that they, too, are front and center in the new exhibit.

We were also pleased to reopen the Marsh Aviary in *Maryland Wilderness*, now with a larger geographic footprint and a new water filtration system. The birds adjusted well to the aviary and a few new species have settled in. Hopefully we also gave members and guests a very pleasant surprise when we returned our much beloved colony of Caribbean flamingos to public view in a prime location along the Safari Boardwalk in *African Journey!*

The spring of 2015 was, by every measure, our best spring in more than a decade. We were well on our way to record-breaking attendance for the year. Sadly, the civil disruption on April 27 and subsequent fallout quickly ended that goal for us. I remain extremely grateful to our staff, though, who never missed a beat. The Zoo remained open for business and while staff sometimes outnumbered guests on grounds, our commitment to the Zoo and to the animals in our care never wavered.

As you read this report, please take pride in what the Zoo has accomplished with your support. This zoo is a vibrant and vital part of the community and I have no doubt that it will remain so with your continued support. I hope to see you here in the months to come.



Donald P. Hutchinson, President/CEO



**DONALD P. HUTCHINSON**

PRESIDENT/CEO

WITH THE MUCH-ANTICIPATED OPENING OF PENGUIN COAST IN FY15,

THE LARGEST COLONY OF AFRICAN PENGUINS IN NORTH AMERICA SPLASHED INTO VIEW FRONT AND CENTER AT THE ZOO.

# new at the zoo



Between July 1, 2014 and June 30, 2015:

- The Zoo celebrated the grand opening of *Penguin Coast*, a multi-million-dollar, state-of-the-art exhibit that showcases the largest colony of African penguins in North America and one of the Zoo's most important conservation species. Many years in the making, the exhibit has transformed the Zoo's geographic center into a spectacular attraction.
- The Penguin Embassy, situated in *Penguin Coast* and home to the Zoo's Animal Ambassador penguins, began offering "Penguin Encounters" as a paid experience to guests interested in an intimate behind-the-scenes tour and keeper-led encounter with penguins.
- Zoo educators attracted large crowds to *Penguin Coast* with their twice daily Penguin Talks while Keeper Chats were expanded to include a new presentation at the Bald Eagle exhibit.
- Six African penguin chicks hatched at *Penguin Coast*, representing the first generation to hatch in the new exhibit and perpetuating the Zoo's highly reputed breeding program for this species, which is one of the most successful in the world.
- The fully renovated Marsh Aviary exhibit reopened in *Maryland Wilderness* and will house numerous new waterfowl and other bird species.
- Flamingos are back! The Zoo's much beloved colony settled into a new exhibit along the

Safari Boardwalk in *African Journey*, returning to public view for the first time in years.

- The Zoo welcomed its first-ever Amur leopard, a female placed here at the request of the Association of Zoos and Aquariums (AZA) Species Survival Plan. The Zoo now joins a coterie of zoos and other wildlife organizations collaborating internationally to build a sustainable and genetically viable population of Amur leopards, the rarest cats in the world.
- Several other animals representing nearly two dozen different species took up residence at the Zoo, including lesser kudu, chimpanzee, adda gazelle, sitatunga, Indian runner duck, African penguin, eastern screech owl, red-tailed hawk, barn owl, keel-billed toucan, marbled teal, blue-winged teal, raven, Dumeril's boa, eastern hognose snake, eastern tiger salamander, eastern box turtle, Iranian eyelid gecko, northern water snake, eastern garter snake, Chilean rose tarantula, and three-toed box turtle.
- The Zoo celebrated the births/hatchings of 1 chimpanzee, 2 sitatunga calves, 3 von der Decken hornbills, 2 African pygmy goats, 4 northern water snakes, and scores of highly endangered Panamanian golden frogs.
- The Rattlesnake exhibit in the Maryland Wilderness Cave was renovated, refurbished, and reopened and now features dark- and light-phased timber rattlesnakes.

# new at the zoo (continued)

- New shade and climbing structures (including a wooden wagon built by a Zoo volunteer) were installed in the Goat Corral, giving the goats a few new vantage points and everyone – goats, staff, and visitors alike – a welcome retreat from the elements.
- Several other exhibits also were improved to improve the guest experience and to accommodate the management and wellbeing of particular animals, including:
  - Repurposing a secondary exhibit yard for sitatunga calves
  - Adding a sand pile to the rhino yard for the comfort of an elderly rhino
  - Installing a training platform in the leopard exhibit
  - Installing a keeper platform in one elephant yard to allow keepers to bathe the elephants outdoors with protected contact
  - Revamping the indoor sifaka exhibit with ground perching, new vines, and hanging trees
  - Installing a shade structure for the alpaca
  - Providing the porcupine with a cave shelter
  - Providing the cheetah with a cave shelter and hot rock
  - Expanding the donkeys' fenced yard to include a sheltered area
- The Zoo's water quality specialists, whose behind-the-scenes work is critical to animal welfare, upgraded and rebuilt filtration systems



in several exhibits including Otter, Fox, Mudpuppy, Newt, and Marsh Aviary, thus improving water quality and guest viewing at all locations.

- Zoo staff also improved several other behind-the-scenes animal areas in a proactive, ongoing quest to enhance the wellbeing of Zoo animals and to deliver efficient husbandry and excellent care in a safe environment. Notable projects in FY15 included:
  - Significant modifications to the Elephant Barn and yards
  - Completion of the HVAC project in the Chimp Forest building
  - Installation of new access or transfer doors in Otter, Leopard, Chimp, Colobus Monkey, and Sifaka holding areas
  - Installation of browse and enrichment hangers in the Rhino and Zebra holding yards
  - Power-washing and painting the Tundra Buggy in *Polar Bear Watch*

EVERY YEAR, THE ZOO'S ANIMAL CARE STAFF WITNESSES AND ACCOMPLISHES THE EXTRAORDINARY

BECAUSE THAT IS WHAT MORE THAN 1,000 ANIMALS OF MORE THAN 200 SPECIES OFFER AND REQUIRE.

# animal report



Between July 1, 2014 and June 30, 2015:

- The Penguin Coast team, within 72 hours of receiving access to the new *Penguin Coast* exhibit, fully prepared the facility to receive birds and, within 9 days, had transferred all penguins and cormorants from Rock Island.
- Zoo veterinarians thoroughly examined each bird before transfer into *Penguin Coast* and veterinary technicians analyzed blood samples drawn from each bird before and after transfer.
- The Penguin Coast team, during the same period of time, also managed the opening of the new Flamingo exhibit along the Safari Boardwalk in *African Journey*. The Zoo's colony of flamingoes moved into their new space in time for the grand opening of *Penguin Coast*.
- A female chimpanzee, "Jane," arrived at the Zoo from another zoo at the recommendation of the AZA Species Survival Plan (SSP) for Chimpanzees. Animal staff assisted with her transfer and, since her arrival, has been carefully managing her ongoing introduction to the troop.
- Animal staff stepped in to hand-rear a healthy infant chimpanzee born at the Zoo when her mother, "Carole," failed to provide for her adequately. Staff cared for infant "Keeva" around the clock for two weeks while also working closely with the SSP to arrange for her transfer to Tampa's Lowry Park Zoo,

where she is being raised by a surrogate chimp mother.

- Keepers working with the Zoo's lemurs successfully introduced the ring-tailed lemurs to the Coquerel's sifaka so that all could be exhibited together indoors during the winter months.
- The Exhibits Team prepared the yard next to the cheetahs to receive porcupine, and Animal staff relocated the Zoo's two Cape porcupines. Guests can now see these impressive rodents outdoors along Safari Boardwalk.
- Teams of animal keepers and managers Zoo-wide continued to pursue animal introductions and breeding programs for many different species, including:
  - A new breeding program for lesser kudu
  - A new breeding program for giraffe
  - Natural breeding of male and female elephant, with noteworthy progress in the right direction
  - Introduction of three young lions to the adult male, allowing for more flexibility in outdoor groupings of animals
  - Continued introductions of addra gazelle to lesser kudu, allowing for an increased number of animals outdoors together daily
- Construction of a brand new Mews at the Animal Embassy – a complex of buildings with indoor and outdoor accommodations for animals – was completed. The Animal Embassy Team oversaw the transfer of many

# animal report (continued)

birds and some mammals into the new Mews, which is now fully occupied and operational.

- Animal Embassy staff upgraded enclosures for the Chinese alligator and savannah monitor lizard, as part of their ongoing effort to evaluate and optimize living spaces for all Animal Ambassadors.
- Three new penguins – two hatched at the Zoo – moved into the Penguin Embassy at *Penguin Coast*, increasing the number of penguins that guests may see during a Penguin Encounter.
- Behavioral training programs continued to be an essential component of animal care at the Zoo, providing enrichment and facilitating husbandry and medical care for numerous species, including in FY15 African elephants, cormorants, ground hornbill, bald eagle, rhino, warthog, chimpanzee, black-and-white colobus monkey, giraffe, lion, demoiselle crane, saddle-billed stork, snowy owl, otter, and leopard.
- Steve Martin, an internationally renowned animal behaviorist and trainer, visited the Zoo to consult with staff, conduct an audit of all animal training programs, and provide a two-day lecture series for the Animal Department.
- Staff veterinarians examined 900 animals at the Zoo, ranging from 5-gram Panamanian golden frogs to African elephants weighing upwards of 10,000 pounds. The veterinary

and animal staff successfully managed patients of many species through illness, injury, and treatments, including:

- In November 2014, cataract surgery performed by veterinary ophthalmology consultant Dr. Anne Weigt and the Zoo's veterinary staff on a 30-year-old penguin, the oldest male penguin in the Zoo's colony. His sight improved immediately and he has done very well since the surgery.
- In March 2015, treatment of male African elephant "Samson" for suspected systemic infection, which required plasma transfusions, constant monitoring of vitals, and the administration of oral and intravenous medications as well as rectal fluids.
- Treatment and rehabilitation of an adult male kudu with toe fractures of the front feet with the use of a novel block treatment adhered to the hoof to allow for rapid healing.
- Veterinary staff treated and rehabilitated 97 wild animals – many found within Druid Hill Park – representing 30 different species. Among this year's wild patients were a ruby-throated hummingbird, bog turtle, flying squirrel, American kestrel, Cooper's hawk, red-tailed hawk, and one snowy owl with a significant wingtip injury that was rehabilitated and released back into the wild in collaboration with the Maryland Department of Natural Resources.



- The Zoo's three veterinary technicians took 200 animal X-rays ranging from hawk wings to antelope hooves, examined almost 1,100 fecal samples, and analyzed more than 1,600 blood and tissue samples.
- The Commissary team continued to provide food to all Zoo animals on a daily basis. In FY15 – to give some sense of scale – the

four-member team delivered 8,400 pounds of carrots, 6,500 pounds of bananas, and a staggering 16,000 pounds of meat.



# conservation report

**In FY15, the Zoo focused staff attention on several specific projects, highlighted below, while also continuing to support the work of dedicated and influential partner organizations.**

## **Focus: Snowy Owl**

In March 2014, the Maryland Department of Natural Resources (DNR) contacted the Zoo's veterinary staff about a juvenile wild female snowy owl downed in Maryland by a severe wingtip injury. "This was a perfect case for [the Zoo] to get involved with, along with our partners at DNR," explained Dr. Ellen Bronson, Senior Veterinarian at the Zoo. "We have extensive experience with snowy owls and have seen them through many medical situations." Bronson and her colleagues performed a delicate and very challenging but ultimately successful surgery on the owl's wing. After rehabilitation and months' long recuperation at the Zoo, the snowy owl was released on Assateague Island in December 2014.

## **Focus: Maned Wolf**

In September 2014, Dr. Bronson traveled to Bolivia to continue her ongoing work with the Maned Wolf Ecology and Health Project (Proyecto Borochi). For more than a decade, she has played a key role in this project aimed at learning more about maned wolves, a threatened South American species, and informing conservation action plans to protect

them and their grassland habitat. Field work occurs in a very remote and vast national park where the highly elusive wolves are known to live. On this, her sixth visit to the park, Dr. Bronson spent several weeks with colleagues tracking wolves, anesthetizing individual animals, collecting and analyzing biological samples, and lending field assistance.

## **Focus: American Black Bear**

In March 2015, Veterinary and Animal staff traveled to western Maryland to participate in the ongoing Black Bear Sow Health Survey led by the Maryland Department of Natural Resources (DNR). The study is now in its fifteenth year, and the Zoo has participated annually since the beginning. Zoo veterinary staff assists and lends expertise in anesthetizing adult female bears, examining mothers and cubs, and procuring biological samples for analysis. This year, the team examined more bears than in any other year of the study: a total of ten mothers with 2 to 4 cubs each.

## **Focus: Panamanian Golden Frog**

In May 2015, Dr. Bronson met in El Valle, Panama with North American and Panamanian colleagues working to conserve the critically endangered Panamanian golden frog. The Maryland Zoo has long been regarded as an international leader in the breeding and care of this amphibian, and it remains one of our signature conservation



species. Dr. Bronson and her colleagues discussed veterinary and husbandry research priorities and made research plans that will further improve medical care and husbandry of Panamanian golden frogs in North American zoos and at the El Valle Amphibian Conservation Center (EVACC), our partner institution in Panama. Many of the discussed research projects will be implemented at the Zoo in coming years in order to further knowledge of the species, fine-tune husbandry practices, and prepare for future reintroductions of Panamanian golden frogs into the wild. While visiting EVACC,

Dr. Bronson also was able to examine and treat several frogs of different species.

In addition to its hands-on conservation work, the Zoo supports and maintains direct and lasting partnerships with conservation projects and organizations worldwide. These close and carefully considered associations further the Zoo's mission to promote conservation while also increasing resources available to us for improved animal management and ongoing staff development. In FY2015, the Zoo's Conservation Program supported:

# conservation report (continued)

- **The Madagascar Fauna Group (MFG):**

MFG, founded by the Duke Lemur Center, is an international consortium of zoos and other institutions working to support conservation in Madagascar, one of the most biodiverse regions in the world. The work that MFG does is critical to the survival of many lemur species, including those exhibited at the Zoo.

- **Turtle Survival Alliance (TSA):** TSA was formed in 2001 by the IUCN (World Conservation Union) as a task force charged with developing breeding programs for the

most critically endangered of the world's chelonian species (turtles and tortoises). The Maryland Zoo has partnered with TSA since 2008, and our support has contributed to the construction and operation of an important turtle conservation center for breeding and research of rare and endangered species of turtles.

- **Southern African Foundation for the Conservation of Coastal Birds (SANCCOB):**

Since its founding in 1968, SANCCOB has dedicated itself to seabird

research, rescue, rehabilitation, and education. It has rescued and saved tens of thousands of penguins and other marine birds and is the primary conservation organization working with African penguins. For many years, SANCCOB and the Zoo have exchanged knowledge and collaborated to advance research, education, and conservation of African penguins.

- **International Elephant Foundation (IEF):**

The mission of IEF is to support and operate elephant conservation and education programs in managed facilities and in the wild, with an emphasis on management, protection, and scientific research. Since 1999, IEF has provided support to more than 80 elephant conservation projects worldwide and has contributed more than \$3 million in direct financial assistance. The Maryland Zoo has been supporting IEF's work since 2008 and also contributes knowledge and data that influences IEF research initiatives

- **The Cheetah Conservation Fund (CCF):**

Since its founding in 1990, CCF has dedicated itself to saving cheetahs in the wild and is now the world's leading organization for cheetah conservation. The organization works with all stakeholders within the cheetah's ecosystem to develop best practices in research, education, and ecology and create a sustainable model from which all other species, including people, will benefit.

- **The AZA (Association of Zoos and Aquariums) Conservation Grants Fund:**

Established in 1984, the Conservation Grants Fund (previously known as the Conservation Endowment Fund) supports cooperative, conservation-oriented, scientific, and educational initiatives of the AZA and AZA-accredited zoos and aquariums and their collaborators. Since 1991, the CGF has provided more than \$6 million to almost 340 projects worldwide.

- **Polar Bears International (PBI):**

Polar Bears International is the world's leading polar bear conservation organization, dedicated to saving polar bears by saving their sea ice habitat. Leading scientists from around the world serve on PBI's Advisory Council and offer guidance on the most urgent projects in a warming Arctic. The Zoo has a longstanding partnership with PBI and supports its work through funding, on-grounds collaborations, and staff expertise and involvement.

- **Elephants for Africa (EFA):**

EFA is a research organization and charity committed to protecting endangered African elephants and habitat in their range countries. Working in Botswana and South Africa, EFA conducts research to understand the ecological and social requirements of African elephants, puts this research into the context of human-wildlife conflict, and delivers scientific data to local decision makers. The Zoo provides funding support to EFA and also



# conservation report (continued)



collaborates on research projects to better understand the threats to African elephants in their range countries.

- **The International Rhino Foundation (IRF):** IRF is dedicated to the survival of the world's rhino species through conservation and research. The Foundation works to protect particularly threatened rhino populations and their habitats in the wild, while also supporting management and research of captive populations in order to improve the chances for long-term species survival.
- **Project Golden Frog/Panamanian Golden Frogs:** Project Golden Frog was created in the late 1990s to prevent the extinction of the Panamanian golden frog, an iconic species in its native country. The Maryland Zoo has supported this Panama-based conservation initiative and played a leading role in breeding and contributing to captive assurance colonies of the species since 1999.
- **The Goualougo Triangle Ape Project (GTAP):** The mission of GTAP is to promote the long-term conservation of chimpanzees and gorillas. It operates in an extremely unique region of the world: the Goualougo Triangle, a 100-square mile region of protected, pristine forest outside of and at the southern end of Nouabalé-Ndoki National Park in the Democratic Republic of the Congo.
- **96 Elephants:** 96 Elephants is a conservation initiative organized by the Wildlife Conservation Society to spread public

awareness about and put an end to elephant poaching and the ivory trade. The campaign and its name are premised on the fact that 96 elephants are killed illegally every day in Africa by poachers.

- **The Adkins Arboretum:** The Adkins Arboretum is a public garden and arboretum located on Maryland's Eastern Shore that, through its educational programs and science-based approach to land stewardship, promotes appreciation and conservation of native plants to more than 18,000 visitors annually.

# education report

Between July 1, 2014 and June 30, 2015:

- 82,727 people visited the Zoo in association with The Free Admission Program for Maryland Schools supported by the legislature and funded by the Maryland State Department of Education, as follows:
  - 57,525 Maryland school children visited for free.
  - 15,433 teachers and chaperones visited for free.
  - An additional 9,769 students, teachers, and chaperones visited at a reduced rate (or were under the age of two and admitted at no charge.)
- During their visits, students participated in hands-on activities at Education Stations that made connections between Zoo content and state and national curriculum standards.
- 118 children attended the Zoo's week-long summer camp programs for children entering grades 2 through 8.
- Zoo educators continued to develop supplemental materials and activities for teachers to access on the Zoo's website to present to students before, during, and after Zoo visits.
- 2,475 students participated in 58 paid school programs at the Zoo (ZOOlabs and Zoo Introductions) that stimulated critical thinking, supported reading skills, and addressed science, math, and life science topics. These programs were aligned with the Next

Generation Science Standards and the Maryland College and Career-Ready Standards, as appropriate.

- Zoo educators delivered 6 classes to 21 Maryland home school students, aged 5 to 8, enrolled in our Cheetah Cubs program. Focusing on conservation, students looked at special adaptations of particular groups of animals (ranging from big cats to frogs) and learned about ways to help protect animals in the wild.
- Zoo educators delivered 5 classes to 9 Maryland home school students, aged 9 to 12, enrolled in our Zam's Quest program. Students engaged in role-playing to examine a variety of conservation issues. They adopted the perspectives of different stakeholders and debated solutions.
- Through its grant-funded Climate Change Partnership Program, the Zoo teamed with

20 Maryland teachers to encourage positive student actions relating to climate change. Students conducted classroom energy audits, developed action plans for reducing their collective carbon emissions, and attended a ZOOlab at the Zoo to investigate the impact of changing climate on habitats and species around the world.

- Outreach staff, assisted by Zoo volunteers, delivered 830 outreach programs to 43,518 people in communities across Maryland and beyond. Of those programs, 198 were grant-funded and delivered at no cost to Title I elementary schools, early education centers, and libraries throughout Maryland.
- In partnership with the Baltimore City-based Summer READS program, Outreach staff developed and presented a program about bees and bee conservation to children attending summer drop-in hours at select Baltimore City school libraries.



- Zoo educators on the Public Programs team developed and delivered a variety of on-grounds experiences to engage Zoo visitors and enhance their learning.
- Approximately 50,000 visitors participated in Education Stations, family overnights, puppet shows, games, and animal-centered activities facilitated by Zoo staff and volunteers.
- Special theme weeks were developed, often in conjunction with international animal awareness days, to support guest learning and audience engagement.
- The Zoo's Interpretation team, based in the Education Department, updated, revised, and added signage and other forms of interpretation throughout the Zoo, enhancing exhibits with important information about animals, their habitats, and conservation concerns affecting their survival in the wild. Projects included:
  - new video content for touch-screen kiosks in the Penguin Education Center
  - new interpretive graphics for the *Maryland Wilderness Bog* exhibit
  - new interpretive graphics for the Creature Encounters education area
- In an ongoing effort to improve learning experiences at the Zoo, Education staff and interns surveyed guests to gather feedback on Keeper Chats and on the use of touch screen technology in the Penguin Education Center.

# volunteers

Between July 1, 2014 and June 30, 2015:

- 1,092 volunteers gave 38,600 hours of service to the Zoo, resulting in a payroll extension value of \$1 million.
- 356 people volunteered regularly throughout the year, interacting with guests and working behind the scenes.
- An additional 736 people volunteered for individual events and service projects.
- 91 teens participated in Junior Zoo Crew, the Zoo's service-learning program for youth aged 14-17. These students averaged 95 hours of service each, educating guests about wildlife, beautifying the campus, and caring for animals.
- 45 college interns worked alongside Zoo staff and completed projects in education, animal care, graphic design, new media, veterinary technology, and archive management. These students represented 29 institutions of higher learning, including California Polytechnic (1), Community College of Baltimore County (1), College of William & Mary (1), Delaware Valley College (2), Goucher College (1), Johns Hopkins University (2), Joliet Junior College (1), Loyola College (1), Marietta College (1), Maryland College Institute of Art (1), Monmouth University(1), Northern Michigan University (1), Ohio University (1), Old Dominion University (1), Pennsylvania State University (1), Salisbury University (2), San Juan College (1), Seton Hill University (1),

- St. Mary's College (2), Stevenson University (1), Towson University (10), University of Baltimore (1)University of Maryland (4), University of Vermont (1), Vet Tech Institute (1), Virginia Tech (1), Wake Forest University (1), West Virginia University (1), and Wheaton College (1).
- The Volunteer Department organized its third annual Teen Leaders Institute, a challenging eight-week program for underserved high school students who are considering a career in the non-profit sector. Participants explored a variety of career paths with senior Zoo staff, attended presentations by Gap, Inc. and by College Bound, a local non-profit that helps underserved students navigate the college application and admissions process, and worked together to plan a Farmyard Carnival fundraiser to support animal enrichment at the Zoo.
- Volunteer Department staff extended their professional contributions beyond the Zoo, with Kerrie Kovaleski serving on the Volunteer Management Committee of the AZA, Allison Schwartz acting as Communications Officer for the Maryland Council of Directors of Volunteer Service, and Kristi Giles sitting on the selection panel for the Governor's Office on Service and Volunteerism annual awards.
- Volunteer and Education staff founded the Maryland Zoo Conservation Club, a forum for volunteers to raise awareness and engage guests in green projects and practices.



Volunteer greeter at entry to Brew at the Zoo.

The club collected over seven pounds of spent pens and markers for recycling, placed donated and hand-decorated rain barrels on campus and in the community, and distributed bat-shaped bookmarks guiding people to the Zoo's "Conservation at Home" website.

- Volunteer staff partnered with Education staff to deliver trainings to education and other volunteers and to revise on-grounds interpretive content for education volunteers.

# institutional advancement

Between July 1, 2014 and June 30, 2015:

- The Maryland Zoo continued to receive invaluable support from the State of Maryland, the City of Baltimore, and Baltimore, Howard, and Carroll counties. Together, these governments provided more than half of the Zoo's operating revenue as well as important funds for capital improvement, with the State contributing most significantly to capital projects. We remain deeply grateful for government leaders' recognition and appreciation of the Zoo as a high-quality institution serving the community.
- More than 12,000 member households supported the Zoo, resulting in more than \$1,300,000 in membership revenue. In exchange, those members received unlimited, year-round admission to the Zoo; reduced admission to over 150 other zoos, aquariums and museums; invitations to special events; and more.
- The Board of Trustees of The Maryland Zoological Society contributed and raised more than \$600,000 for operating, educational, and capital projects at the Zoo.
- Many generous individual and corporate donors supported the Zoo through gifts to The Maryland Zoo Fund and ADOPT programs or targeted to capital improvements. The Zoo was also the grateful beneficiary of many gifts made in honor or in memory of loved ones.

- The Maryland Zoo Fund raised \$575,000 to supplement earned and public revenue, helping the Zoo to cover its \$38,000 daily operating cost.
- New individual donors contributed more than 300 first-time gifts to the Zoo.
- Repeat individual donors showed strong loyalty, with 522 people marking their third or more consecutive years of gift-giving to the Zoo.
- Of those 522 individuals, 43 are acknowledged as Heart of the Zoo Society members for consistently donating to the Zoo for 20 or more years.
- Corporate memberships remained a strong source of revenue and community support, generating \$367,250 for the Zoo in FY15. This exceeded the \$325,000 goal set for FY15 by 13% and represents an increase of 31% over FY14.
- Foundations and philanthropic funds generously granted vital monies to help fund the Zoo's day-to-day operations, educational programming, and capital projects.
  - The amount of operating and restricted funding received from grants totaled more than \$300,000.
  - Grants for capital projects provided funding for *Penguin Coast*, the Animal Embassy Mews, and new endoscopy equipment for the Animal Hospital.

- The Zoo continued to attract thousands of enthusiastic participants to its special events, which include Brew at the Zoo, Bunny BonanZOO, ZooBOOO!, Zoo Zoom, Sex at the Zoo, Where the Wild Things Art Paint Nights, and the Constellation Breakfast with the Animals series.
  - The Events team had a record-breaking year, bringing in nearly \$800,000 – a doubling of fundraising revenue since 2009.

- Half of this revenue was generated by Brew at the Zoo, the Zoo's largest fundraiser, with nearly 10,000 guests attending the two-day beer-and-wine festival.
- Many other events, including Breakfasts with the Animals and the newly offered Paint Nights, sold out on a regular basis, demonstrating strong appeal and revenue-generating ability.



# institutional advancement (continued)

- Turnout was strong for the Zoo's first family-friendly concert featuring the Disney-produced *Imagination Movers*.
- For the seventh year in a row, the Group Sales team exceeded its revenue goals.
  - The team continued to successfully promote private, nonprofit, and corporate rentals and retreats; fundraising walks and picnics; the Zoo's consignment ticket program; group visits and tours; behind-the-scenes tours; and birthday parties.
  - The Zoo earned a Couples Choice Award from Wedding Wire, an online marketplace catering to prospective brides and grooms, for landing in the top 5% of wedding venues as determined by client reviews.
- The Mansion House Porch and Waterfowl Lake Pavilion remained popular sites for wedding ceremonies and receptions, with Wedding Wire reviews averaging 4.9 out of 5.
- Zoo marketing efforts engaged local and neighboring communities in everything going on at the Zoo, thus promoting attendance and support.
  - Advertising campaigns across digital and traditional channels introduced the Zoo's



- new *Penguin Coast* exhibit. High-profile media placements on television, billboard, and radio in Baltimore and adjacent markets helped build awareness of the exhibit and – with the tagline “Closer than Ever” – generated enthusiasm for the experience.
  - Social media engagement grew significantly, with the Zoo's Facebook audience increasing by more than 33,000 new followers to total 101,755 in FY15 (a 50% increase).
  - The Zoo's other social media channels – Twitter, Pinterest, Instagram, Vine, and Periscope – also saw incremental increases in audiences. Most notably, Instagram growth tripled to total more than 10,000 followers.
  - E-mail marketing increased by record-breaking amounts, with more than 2.6 million e-mails sent out (an increase of 63%) and an average open rate of 26%.
  - Traffic to the Zoo's website grew significantly, with 960,000 sessions logged (a 21% increase) and 2,600,000 page views recorded (an 11% increase).
  - The Zoo's advertising agency of record, Mission Media, continued to work in partnership with Zoo marketing staff to create bold visual identities and marketing strategies for the *Penguin Coast* exhibit and for other happenings at the Zoo, including events such as Brew at the Zoo.
- The Zoo's Public Relations team maintained close and productive lines of communication with local and national media outlets in order to keep the Zoo in the public eye and top of mind.
    - Just prior to Mother's Day, the Zoo made national and international news when Keeva, a baby chimpanzee born here, moved to the Lowry Park Zoo to be raised by a surrogate mother. The Baltimore Sun created a photo and video gallery of baby Keeva and her Maryland Zoo caregivers at the Zoo and as they took flight in a private aircraft bound for Florida.
    - In November 2014, the Zoo gained national exposure when Baltimore-born television personality Mike Rowe filmed a segment for his CNN television show, “Somebody's Gotta Do It,” at the Zoo.
    - The Zoo continued its monthly, live, in-studio appearances on WJZ-TV, WBAL-TV, and FOX 45, as well as regular appearances on WBAL Radio and 98 Rock.
    - Zoo Animal Ambassadors made multiple appearances on national television and internet shows to promote Zoo programs and programs benefitting fellow member facilities around the country that are accredited by the Association of Zoos and Aquariums (AZA).

# financials

## Contributed Income

State of Maryland	\$ 5,987,389
City of Baltimore	1,509,015
County Grants	422,818
Foundation Grants	359,132
General Support	
<i>Annual Fund</i>	560,222
<i>Corporate</i>	505,564
<i>Other</i>	104,040
Total General Support	<u>1,169,826</u>
Contributed Income	<u>9,448,180</u>

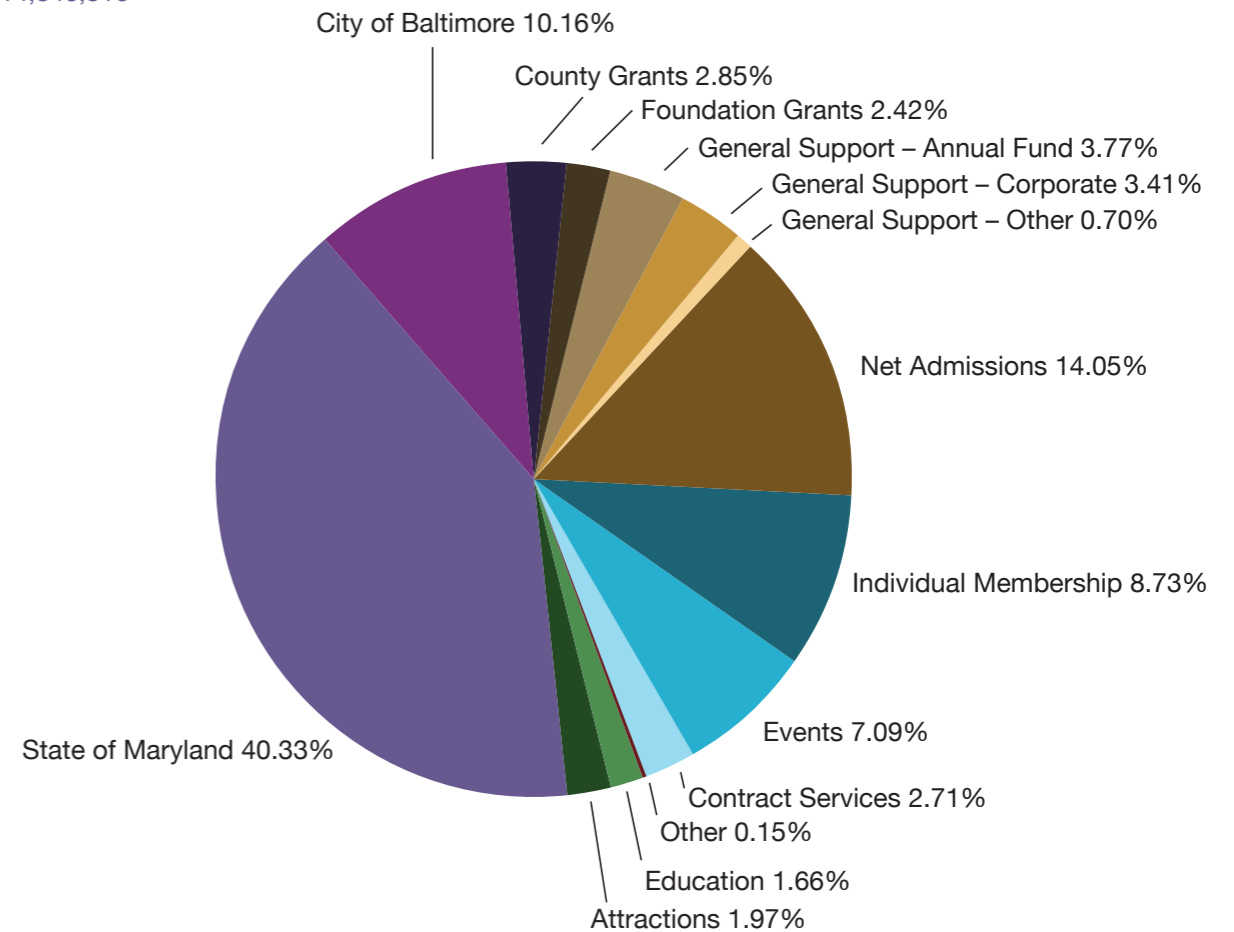
## Earned Income

Net Admissions	\$ 2,085,693
Individual Memberships	1,295,935
Events	1,052,582
Contract Services	402,919
Attractions	292,406
Education	246,678
Other	21,921
Earned Income	<u>5,398,135</u>
Operating Revenues	<u><b>\$14,846,316</b></u>

**Net Capital Support – used to fund capital projects** **\$2,616,912**

## Support & Revenue

TOTAL REVENUE  
\$14,846,316





# financials

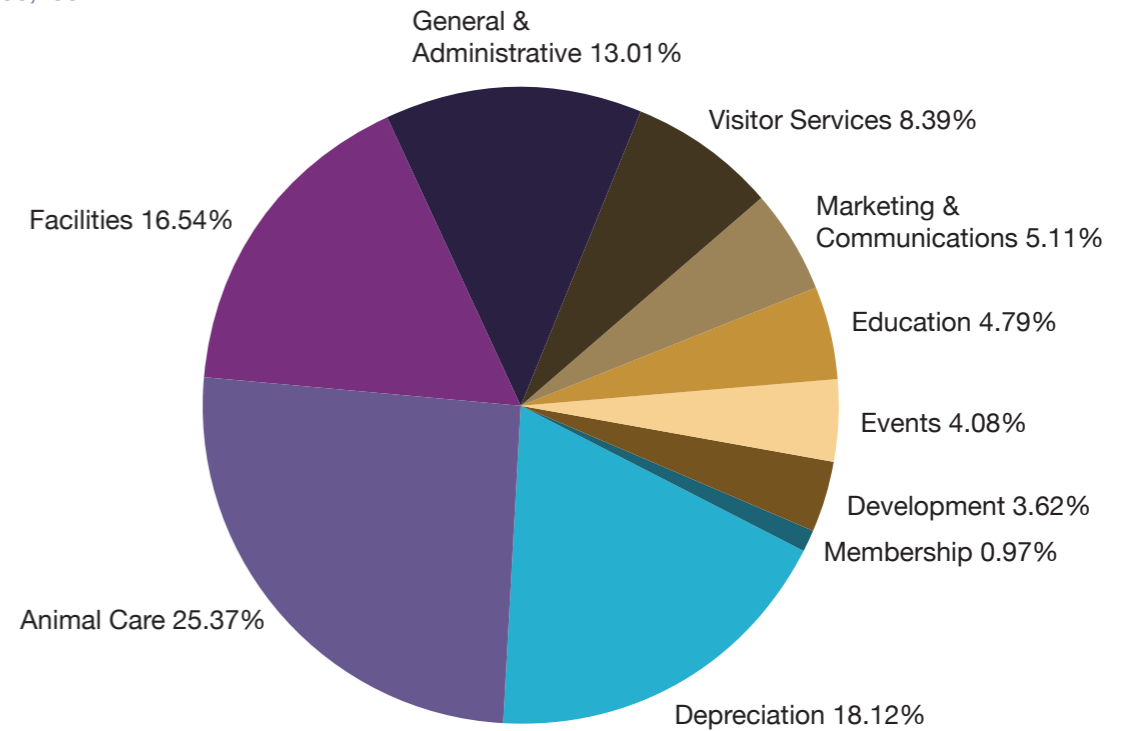


## Expenses

Animal Care	\$ 4,551,716
Facilities	2,967,749
General & Administrative	2,333,765
Visitor Services	1,505,150
Marketing/Communications	916,310
Education	858,594
Events	731,495
Development	648,509
Membership	174,073
<b>Operating Expenses Before Depreciation</b>	<b><u>14,687,361</u></b>
Depreciation	3,251,137
<b>Operating Expenses</b>	<b>\$17,938,498</b>

## Expenses

TOTAL EXPENSES  
\$17,938,498



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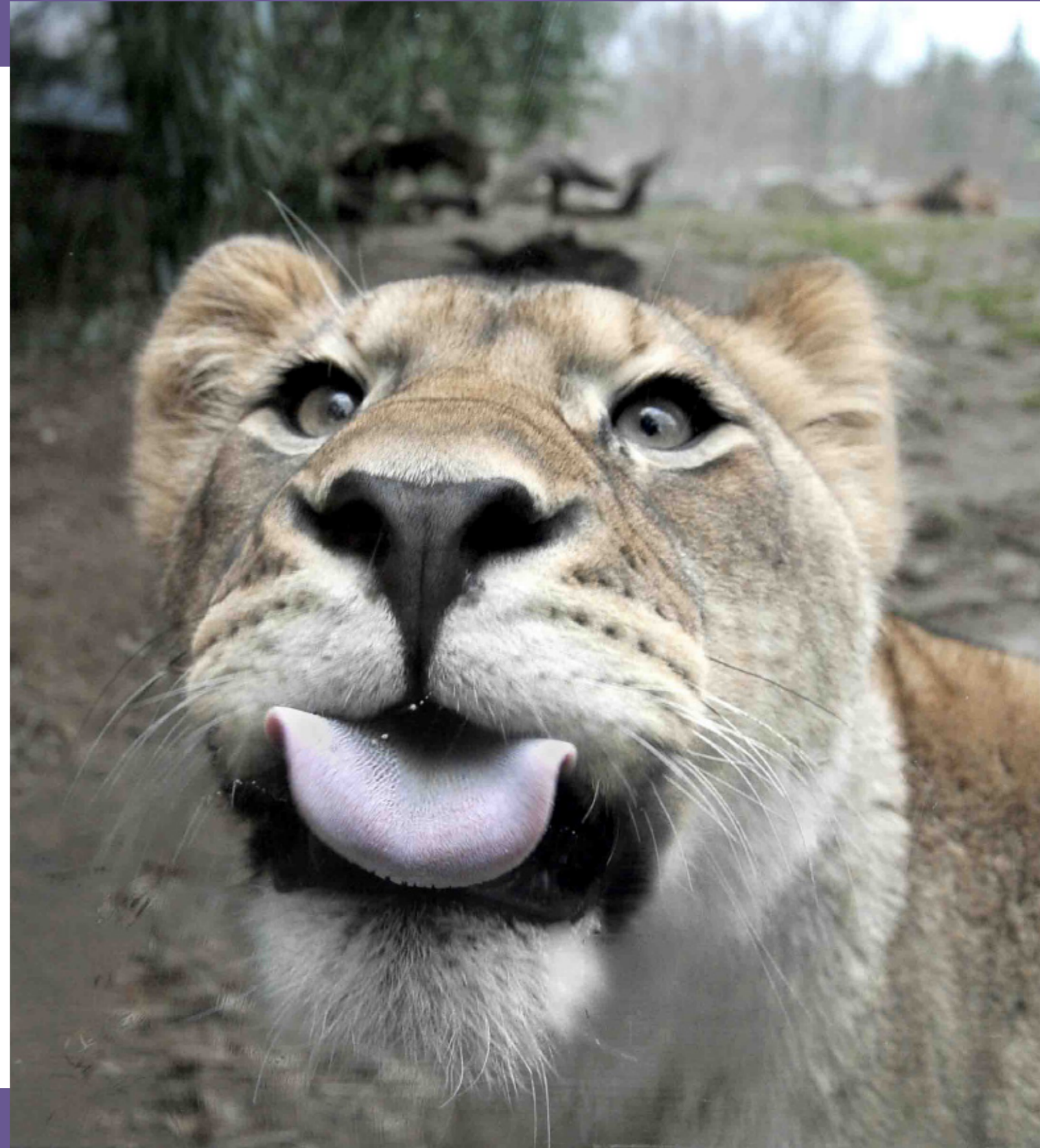
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# staff research projects and publications

## RESEARCH PROJECT PARTICIPATION

### African Penguins

#### Avian Malaria Surveillance and Promotion of Natural Immunity in African Penguins at the Maryland Zoo in Baltimore

- Mike Cranfield, Ellen Bronson, Allison Wack

Avian malaria is caused by several different species of Plasmodium, which can be found anywhere the vector, mosquitoes, is located. *S. demersus* did not evolve with the parasite, as mosquitoes are not found off the coast of South Africa where the penguins reside, making the parasite extremely pathogenic to the penguins and causing various degrees of morbidity and mortality. As part of this study, the colony of African penguins at The Maryland Zoo in Baltimore is screened through blood samples taken throughout the first two years that a penguin is exposed to mosquitoes at our Zoo. All penguins are allowed to develop a natural immunity to the parasite under close observation while any penguin that tests positive for avian malaria undergoes treatment. This study is ongoing and a part of The Maryland Zoo in Baltimore's African penguin collection management.

#### Comparisons of Environmental Fungal Loads and Water Quality Between Two Different African Penguin (*Spheniscus demersus*) exhibits

- Anne Rivas, Ellen Bronson, Allison Wack, Micheal Dykstra

Aspergillosis, a disease caused by common environmental fungi, is among the most common mortality causes in penguins housed indoors. Housing designs for captive wild species are under continuous review and development in order to minimize such risks. In September 2014, The Maryland Zoo in Baltimore began transitioning its African penguin colony into a new exhibit. Both old and new exhibits contained an outdoor exhibit/water portion as well as an indoor housing area, allowing for this study to compare one to another. The goals of the study were: 1) to compare variations in fungal colony forming units between indoor and outdoor spaces in the old and new exhibits; 2) to determine if nesting material used in penguin nest boxes was colonized with fungal organisms; 3) to determine variation in water quality parameters, including ammonia, nitrites, nitrates, pH, and coliform counts, between the old and new exhibits; and 4) to review aspergillosis incidence within the colony.

### Cats

Senior Veterinarian Ellen Bronson received a \$10,000 Morris Animal Foundation grant in conjunction with Auburn University to study the drug (pharmacokinetic) effects of a commonly used pain medication in various species of felid (cat) species. This project is in collaboration with AZA's Felid Taxon Advisory Group, for which Ellen serves as the veterinary advisor. The research project is testing the concentrations of this orally-administered pain medication in the bloodstream, analyzed from

samples voluntarily collected from lions, tigers, and cheetahs in zoos across the country. The Zoo's female cheetah was able to provide a sample and participate in this study because of training that enabled keeper and veterinary technician staff to draw blood from her tail vein voluntarily and safely.

### Chimpanzees

#### Dietary Survey of Captive Housed Chimpanzees

- B. Katherine Smith, Melissa J. Remis

This study is compiling a dietary survey of captive chimpanzees with the goal of making management recommendations. Keepers at The Maryland Zoo submitted diet sheets to document dietary items (quantities, enrichment, browse, supplements, and seasonality) for the study.

### Panamanian Golden Frogs

Populations of amphibians worldwide, including those of Panamanian golden frogs, have been decimated over the past 20 years by chytridiomycosis, a deadly skin disease caused by the fungus *Batrachochytrium dendrobatidis* (*Bd*). The disease commonly known as chytrid has pushed Panamanian golden frogs, which were last seen in the wild in 2009, to the point of virtual extinction. The frogs are still bred, managed, and studied in captivity, with particular expertise and success at The Maryland Zoo. The Zoo is involved in several research studies aimed at better understanding, treating, and ultimately eliminating both *Bd* and chytrid, as outlined below:

#### Population Pharmacokinetics of Itraconazole in Panamanian Golden Frogs (*Atelopus zeteki*)

- Amy Rifkin, Ellen Bronson, Kevin Barrett, Marike Visser, Dawn Boothe

Itraconazole is an antifungal drug used widely to treat *Bd*. This study aims to determine drug concentrations of itraconazole in tissues in order to determine appropriate doses for the treatment of fungal diseases. Drug doses have previously been determined anecdotally based on clinical efficacy, and fatal toxicities have been noted in some amphibian species. Research conducted in this study determined that the standard dose 0.01% is excessive and the lower dose of 0.001% itraconazole is not high enough to reach appropriate concentrations for the topical treatment of Panamanian golden frogs. The ideal dose likely lies between the two concentrations. The Zoo supplied 100 Panamanian golden frog morphlets for this study.

#### Measuring the Force of Infection of the Fungal Pathogen *Batrachochytrium dendrobatidis* (*Bd*) in the Genus *Atelopus*

- Karen Lips, Tate Tunstall, Grace DiRenzo, Kelly Zamudio, Amy Ellison

The goal of this study is to shed light on two aspects of how *Bd* is transmitted: the force of infection as it relates to *Bd* load and whether or not *Bd* transmission requires direct contact. This experiment allows for more accurate models of how *Bd* spreads through populations and will have implications beyond just the genus *Atelopus*. In addition, this study will have implications for both existing populations in the

# staff research projects and publications (continued)

wild and future reintroduction efforts. The Zoo provided 50-100 Panamanian golden frogs (*Atelopus zeteki*) for this study.

## **How Does it End? Epidemic Fadeout and Rapid Evolution in a Host-Pathogen System**

- **Corinne Richards-Zawacki, Jamie Voyles, Erica Rosenblum**

This project investigated the role of rapid evolution in both host and pathogen following a highly lethal epidemic of chytrid. Using an approach that integrates experimental and genomic methods, it tested the hypotheses that (I) *Bd* has evolved decreased pathogenicity and (II) amphibian hosts have evolved an increased tolerance of *Bd* infection. The Zoo provided 60 Panamanian golden frogs (*Atelopus varius*) for this study.

## **Effect of Temperature and Temperature Variability on Amphibian Declines**

- **Jason Rohr, Matthew Venesky, Jeremy Cohen**

This study aims to create models based on experiment data to determine whether climate has contributed to recent amphibian extinctions in Latin America, including that of the Panamanian golden frog. There is preliminary evidence that, upon exposure to chytrid, Panamanian golden frog (*Atelopus zeteki*) mortality increases linearly with temperature. The Zoo provided a total of 160 Panamanian golden frogs (*Atelopus zeteki*) for this study, 60 for phase 1 and 100 for phase 2.

## **Exogenous Hormone Induction of Oviposition in Gravid Panamanian Golden Frogs (*Atelopus zeteki*)**

Captive populations of Panamanian golden frogs at this zoo and other zoological institutions have suffered a concerning amount of morbidity and mortality that appears to be at least partially related to the failure of gravid females to undergo egg-laying. In FY15, the Zoo continued to conduct this ongoing research study, making small alterations each breeding season. Dr. Ellen Bronson, the Zoo's senior veterinarian, recently presented study results for the first six years at the American Association of Zoo Veterinarians conference. In the past four breeding seasons, the Zoo's Panamanian Golden Frog team has been able to further optimize the protocol used for ovipositioning of the frogs and has had 65% success with this protocol.

## **Studying Disease Resistance to Reduce the Threat of Chytridiomycosis to Panamanian Golden Frogs**

- **Brian Gratwicke, Matthew H. Becker**

Gratwicke and Becker are studying defense mechanisms against *Bd* in Panamanian golden frogs. In this study, two hundred captive Panamanian golden frogs, including from this zoo, are being screened using a non-invasive skin swab and molecular tools will be used to characterize the skin microbiome. The microbiota data should identify a subgroup of animals that will clear a *Bd* infection, based on microbiota data revealed in a previous study. This study will help predict *Bd* susceptibility of golden frogs and aid in reintroductions into their native habit.

## **Polar Bears**

### **Baseline Serosurvey of Equine Herpesvirus (EHV-1/9) in Polar Bears (*Ursus maritimus*) and Exotic Equids Housed in US AZA Institutions**

- **Kathryn C. Gamble, John A. Flanders, Ray F. Wack, Darin Collins, Nicola Pusteria**

The goal of this study is to develop serologic and PCR tests for EHV1/9 in ursids. These tests are to be used in conjunction with equivalent tests for equids as a survey for the captive polar bear population in AZA institutions in the United States. An EHV cross-infection risk-assessment would then be developed utilizing an epidemiologic survey of housing, husbandry, and other risk factors in captive polar bears including comparisons of housing exotic equids within the same collections. The Maryland Zoo in Baltimore supplied serum samples and tissues from their collection of polar bears and zebras as well as survey answers to assist with this research study.

## **Slender-Snouted Crocodiles**

### **Oocyte Membrane-bound Sperm Detection for Crocodile Conservation and Management**

- **Lauren Augustine**

The female slender-snouted crocodile at The Maryland Zoo in Baltimore has laid eggs over the past few years, none of which appeared to develop. This research study accepted 9 undeveloped eggs laid at The Maryland Zoo and used perivitelline membrane (PVM) sperm detection to determine the status of the

undeveloped egg. This study will determine if the pair of crocodiles at The Maryland Zoo in Baltimore is copulating or if the eggs are truly infertile.

## **Miscellaneous**

### **Comparative Neurobiological Investigations of Mammals**

- **Chet Sherwood**

Broad comparative study aimed to obtain normative data on the cellular composition, connectivity, and molecular biology of the cerebral cortex in a variety of mammals. Past similar studies only considered overall mass of the brain and its large subdivisions. This study aimed to obtain information regarding species differences in cell type, composition, connectivity, and gene expression within the cerebral cortex and other regions. Postmortem formalin-fixed/frozen mammalian brain specimens were supplied by The Maryland Zoo for the studies.

# staff research projects and publications (continued)

## PUBLICATIONS

Krauss, M.W., L. Benato, **A.N. Wack**, J.J. McDonnell, N.J. Schoemaker, I. Westerhof, **E. Bronson**, I. Gielen, A. Van Caelenberg, T. Hellebuyck, B.P. Meij, S. De Decker. Intervertebral Disk Disease in 3 Striped Skunks (*Mephitis mephitis*). *Veterinary Surgery* 2014. 43(5): 589-592.

Kelly, K. M., **A. N. Wack**, D. Bradway, B. W. Simons, **E. Bronson**, G. Osterhout, N. M. Parrish, R. J. Montali. 2015. Identification of *Mycobacterium genavense* in a Diana monkey (*Cercopithecus diana*) by polymerase chain reaction and high-performance liquid chromatography. *Journal of Zoo and Wildlife Medicine* 46: 339-344.

**Wack, A. N.**, C. J. Holland, J. E. Lopez, T.G. Schwan, and **E. Bronson**. 2015. Suspected Lyme borreliosis in a captive adult chimpanzee (*Pan troglodytes*). *Journal of Zoo and Wildlife Medicine* 46: 423-426.

Adamovicz, L., **E. Bronson**, **K. Barrett**, and S. L. Deem. 2015. Health assessment of free-living Eastern box turtles (*Terrapene carolina carolina*) in and around the Maryland Zoo in Baltimore 1996-2011. *Journal of Zoo and Wildlife Medicine* 46: 39-51.

Sim, R. R., T. M. Norton, E. Bronson, M. C. Allender, N. Stedman, A. L. Childress, J. F. X. Wellehan. 2015. Identification of a novel herpesvirus in captive Eastern box turtles (*Terrapene carolina carolina*). *Veterinary Microbiology* 175: 218-223.

Bronson, E., K. Kelly, E. P. Hoberg. 2014. Airsac nematode *Monopetalonema alcedinis* in a belted kingfisher (*Megasceryle alcyon*) in Maryland, USA. *Journal of Wildlife Diseases* 50: 938-941.

Bronson, E., H. Spiker, C. P. Driscoll. 2014. Serosurvey for selected pathogens in free-ranging American black bears (*Ursus americanus*) in Maryland, USA. *Journal of Wildlife Diseases* 50: 829-836.

## LECTURES

Senior Veterinarian **Ellen Bronson** delivered lectures at several universities in FY15, including: The role of the wildlife veterinarian in ecosystem health. Midwestern University College of Veterinary Medicine. Glendale, Arizona. May 2015.

Comparative physiology of the gastrointestinal tract. Midwestern University College of Veterinary Medicine. Glendale, Arizona. May 2015.

Diseases of captive and free-ranging mammals. University of Maryland College Park. Undergraduate lecture for biology and animal science majors. November 2014.

The zoo veterinarian's role in conservation. University of Pennsylvania School of Veterinary Medicine. February 2015.

General Curator **Mike McClure** taught both introductory and advanced elephant management techniques to more than 80 AZA professionals, including elephant care professionals, veterinarians, and zoo directors, at classes in Wheeling, West Virginia; at Disney's Animal Kingdom; and at the Houston Zoo. He served as Course Administrator for *Principles of Elephant Management 1* and *Principles of Elephant Management 2*, which are offered by the AZA's Professional Development Programs.

**Katie Manion**, Assistant Director of Education, presented at the AZA 2014 Annual Meeting. She participated in a panel entitled *A Snapshot of How Institutions Approach Visitor Studies* and delivered a presentation entitled "Conducting Visitor Studies with Limited Resources."

Jennifer Sohl presented "Observations between white blood cell morphology and disease severity during a ranavirus-herpesvirus coinfection in a group of captive Eastern box turtles (*Terrapene carolina carolina*)" at the Association of Zoo Veterinary Technicians conference on Jekyll Island, Georgia in October 2014.

While attending the Elephant Managers Association conference at Toledo Zoo in October 2014, keeper Valerie Severe presented on management and facility modifications for a geriatric female elephant.

# We could not do it without you!

Your generosity allows the Zoo to continue offering excellent animal, education, and conservation programs, to provide an exemplary visitor experience, and to assure a clean and safe environment for our animal collection, staff, and guests from all over Maryland and the region. Our genuine thanks go to you, our faithful friends, who year after year support the Zoo with your philanthropic donations, enabling us to make the wonders of wild life accessible to the entire community.

# Thank you!

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Together, these governments provided more than half of the Zoo's operating funds and important capital improvements, with the State being the most significant contributor for capital improvements. We remain deeply grateful for government leaders' recognition and appreciation of the Zoo as a high-quality institution serving the community.

## Individual Annual Giving

The Maryland Zoo is a nonprofit organization that must raise nearly half of its operating budget from private sources every year. Our heartfelt thanks go out to the following donors, whose sophisticated understanding of the importance of support for daily operations led them to contribute \$100 or more to our Annual Fund between July 1, 2014, and June 30, 2015. Their generosity enabled us to finish our fiscal year in the black for the sixth year in a row.

*Every effort was made to ensure the accuracy of this listing of donors. We regret any inadvertent omissions or errors and ask that you bring these to the attention of the Development Department by calling 443-552-5290.*

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The Estate of Mr. Edward L. Dopkin  
 The Estate of Mrs. Suzanne M. Otto  
 The Estate of Mr. Robert Riley

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One of the Zoo's greatest treasures is our corps of dedicated volunteers, whose hours of valuable service enhance our operations at every level and add so much to the guest experience.

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#### 700 HOURS OR MORE

Alec Marschke

#### 500-599 HOURS

Suzanne Blair

Arlene Falke

#### 400-499 HOURS

Autumn Aaron

Sarah Dickerson

Shannon Dunne

Kathryn Hogue

Rachel Howard

Nancy Phillips

Margaret Smyles

#### 300-399 HOURS

Cindy Bowie

Carin Brown

Joshua Frick

Shani Remer

Caroline Spencer

Jessica Wooleyhand

#### 200-299 HOURS

Brendan Bangay

Sara Borowy

Carol Dennis

Joleen Dinolt

Linda Dusel

Rebecca Gross

AJ Hundertmark

Alexandra Jeddry

Susan Landers

Nancy Lemay

Thomas Levickas

Larry Martin

Nancy Meier

Beth Penn

Robert Sawyer

Edward Shevitz  
 Shirley Smith  
 Stephannie Stair  
 Shannon Welker

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Amanda Barteck

Barbara Bien

Amy Donna Bittler

Elaine Bowen

Zoe Braddock

Dionna Bucci

Katherine Buchanan

Lynne Burek

Madeline Camerlengo

Aaron Canterbury

Annalea Cascio

Celina Cisneros

Brandon Clement

Kourtney Conti

Joe Corcoran

Sumner Cornacchia

Christopher Darby

Nancy DeBell

Julia Dimaiio

Jim Dobson

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Gloria Dunton

Unique Eaton

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Susan Farrell

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Alyssa Gladden

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 Patricia Smith  
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 Peggy Sullivan  
 Phyllis Taylor  
 Kayla Trace  
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 Ana Ward  
 Susan Wentz  
 Linda Wrightson  
 Dalton Yohn

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Carly Alt

Zoe Applebee

Jonathan Arias

Elena Artimovich

Valerie Barclay

Celia Bowers

Grant Bowers

Lindsay Caplan

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Sarah Coccia

Brandy Copsey

Linda Corcoran

Oumou Dao

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Paula Frankos

Rebecca Friedman

Francis Gilbert

James Girch

Eryn Grier

Selena Guerrero-Martin

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Sarah Hannon

Morgan Harris

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Erica Heffner

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Pat Hutchinson

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Regan Kelly

Alyssa Kess

Melanie Kimball

Sandra Kull

Akina Kuperus

Grace Landefeld

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Brittany Maas



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Kris McCurry  
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Zoë Murphy  
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Jessica Rich  
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Hiedi Sturm  
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Kathy Thomas  
Jennifer Thorpe  
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John Wagener  
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Tyrone Walker  
Samantha Wentz  
Paul Wilson  
Liz Witty  
Peter Yao  
Juliana Zellers  
Adam Zurgable

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Randall Ainsworth  
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Jane Akers  
Keith Akers  
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Amanda Andre  
Miranda Appiah  
Elizabeth Arndt  
Marjani Arnett  
Dasia Bailey  
Timm Baldwin  
Nancy Bandiere  
Karine Barnes  
Ekjot Basra  
Evelyn Bates  
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Chanell Ben  
Linda Benamor  
Jessica Bentz  
Michael Berg  
Keri Bienert  
Chris Bines  
Bernie Bishoff  
Sybria Black  
Sonya Bleakley  
Anne Blonder  
Robin Bloomfield  
Matt Bocian  
Courtney Bonaparte  
Robert Brockmeyer  
Michael Brown  
Gisela Brown  
John Brown  
Mandy Brown  
Timothy Brown  
Jessica Brownell  
Robert Browning  
Susan Browning  
Emily Brundin  
Kelly Bryson  
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Ken Bullock  
Holly Burkett  
Kimberly Butcher  
Clive Butler  
Nicole Butterworth

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Eunji Byun  
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Aaron Campbell  
Bernard Cataldo  
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Pat Chason  
Katherine Chin  
Katherine Chung  
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Bailey Clark  
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Kim Clark  
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Karen Cohen  
Marilyn Collins  
Mary Rose Cook  
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Jenna Crutchfield  
Hannah Crystal  
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Tracee Daniels  
Sabrina Davis  
Fred Debell  
Justin Declene  
Christina DeJoseph  
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Monique Dixon  
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# THE MARYLAND ZOO IN BALTIMORE

1876 Mansion House Drive, Druid Hill Park, Baltimore, MD 21217-4474

[www.marylandzoo.org](http://www.marylandzoo.org)

## **HOURS OF OPERATION**

Every day is a great day to be at the Zoo! Plan ahead and enjoy a day here soon. Before you visit, check the Zoo's website – [www.MarylandZoo.org](http://www.MarylandZoo.org) – to get up-to-date information on daily programming, exhibits, and upcoming events.

Open daily, 10 a.m. – 4 p.m.

*(Closed Thanksgiving Day and December 25, and  
Tuesday through Thursday in January and February.)*

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Education	443-552-5300
Group Sales	443-552-5277
Membership	443-552-5281
Corporate Membership	443-552-5270
Adopt	443-552-5281
Rentals	443-552-5277
Volunteers	443-552-5266