



# MONTHLY ACTIVITY REPORT

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**To:** AArk Steering Committee and colleagues  
**From:** AArk Staff  
**Subject:** AArk monthly activity report for October 2008  
**Date:** 5 November 2008

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*Note: these reports document efforts that are underway; people seeking additional information should contact [Kevin Z.](#)  
These monthly reports are now archived [online](#).*

## General updates from the amphibian community

### News/Publications

- [Amphibian](#) decline linked to climate change in world's oldest national park
- [Chytrid](#) killing amphibians independent of climate change
- [Chytrid](#) jumps Panama Canal
- [Genome](#) of amphibian chytrid sequenced, possible first step in identifying unique genes that might be targeted for control
- [Atrazine](#), previously shown to sterilize tadpoles, now demonstrated to suppress immunity and make amphibians more susceptible to infections such as those that cause malformations
- [Amphibian](#) diversity decreases chances of infection with malformation-inducing parasite
- [Loss](#) of tadpoles diminishes stream health
- [ASG](#) speculates on 3 years of progress
- [Froglog 89](#) issued
- [Threatened Amphibians of the World](#): All ~1,900 species known to be threatened with extinction are covered in this book, including a description of threats to each species and an evaluation of conservation measures in place or needed. Each entry includes a photograph or illustration of the species where available, a distribution map, and detailed information on range, population and habitat and ecology. Introductory chapters present a detailed analysis of the results, complemented by a series of short essays written by many of the world's leading herpetologists. Appendices include lists of lower risk species and a country-by-country listing of threatened amphibians.
- Jeff Corwin/Animal Planet's "[The Vanishing Frog](#)" debuts 20 November. This page also includes lesson plans for school kids, complementing [AArk's existing materials](#).
- "[Frog, Chemical, Water, You](#)" 3 part documentary by Jennifer Grace, will be on exhibit at the National Zoo in Washington DC this fall/winter
- AZA compiles [list of member successes](#) in YOTF

### Amphibian/Herp Meetings

- [The Global Amphibian Extinction Crisis – Linnean Society symposium](#) in London 6 November
- [Halting the global decline in amphibians: research and practice](#) in London 20-21 November
- VIII Latin-American [Congress](#) of Herpetology in Cuba 24-29 November

*Amphibian Ark is a partnership between the World Association of Zoos and Aquariums (WAZA), IUCN/SSC Conservation Breeding Specialist Group (CBSG), and IUCN/SSC Amphibian Specialist Group (ASG).*

## Funding available

- ASG calls for [proposals](#) for up to \$30,000 matching funds for critical habitat protection, no deadline
- Columbus Zoo continuously accepts applications for grants and emergency grants and has a strong record of supporting amphibian conservation work. For more information, contact [Rebecca Rose](#), Field Conservation Coordinator.
- Emergency funds are also available through [Memphis Zoo](#) and [Disney](#).
- Other grant opportunities are described in Appendix 3 of [AZA Amphibian Resource Manual](#).

## Funding needed

- For species rescues in eastern Panama ([Houston budget proposal](#))
- [Funding and volunteers needed for expeditions to assess sites of past decline in Costa Rica and Panama](#)
- For species prioritization workshops in India, Sri Lanka, Indonesia.
- For workshops and facilities in [Costa Rica](#).
- Other partnership opportunities are available in [Latin America](#) and [Asia](#).
- For AArk officer support, including 25% Taxon Officer Kevin J, 50% Program Director Kevin Z, and any/all of a YOTF Campaign Manager.
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## Vacancies

- L'Université de Montréal seeks a student to realize an [M. Sc. in biology](#) dealing with the effects of an invasive plant on amphibian diversity and reproduction
- Cornell seeks [post-doc](#) in evolution of amphibian immunity
- WCS seeks [Assistant Supervisor of Herpetology](#) with strong background in amphibians.

## CURRENT

### AArk Coordination

- [Strategic planning meeting tentatively set for March in Al Ain](#)
- Vast majority of AArk coordination efforts going into enabling partners for the YOTF campaign and various capacity building efforts.

### Taxon Survival Efforts

- The Panamanian species prioritization workshop is scheduled for 10-12 November, [led by Houston's Paul Crump](#) with partial funding from New Mexico Bio Park Society/Rio Grande Zoo.
- Arrangements are continuing for a prioritization workshop in Indonesia in early 2009.
- Kevin is angling for a prioritization workshop in Brazil in March 2009. A preliminary meeting with *in situ* biologists is planned for this November when he is there to give a presentation at Sao Paulo Zoo.
- Robert and Richard are in the early stages of planning a prioritization workshop for Central African species in Cameroon next year, probably April 2009.
- Richard is in discussion with Ansem de Silva with respect to holding a Sri Lanka prioritization workshop in late 2009.
- Completed versions of the prioritization data from various workshops are available on the [Amphibian Ark portal](#)
- [Funding and volunteers needed for expeditions to assess sites of past decline in Costa Rica and Panama](#)
- On behalf of the AArk Cryobiology Advisory Committee, San Diego Zoo is accepting amphibian tissue samples for cell culture. The [protocol](#) is available online. These cell lines will provide valuable material for research and preserving genetic diversity. If an invaluable animal dies in captivity, or you encounter a freshly dead specimen of a rare species in the field, please consider utilizing this free service. Biopsy kits are available through the contact information in the online protocol.

- ZSL is also developing a protocol and plan to receive amphibian tissue samples. Initial trials of the sampling, storage, transportation and preservation protocols are being carried out between ZSL and Chester Zoo.
- Washington State University offers services including DNA extraction from swabs or tissue samples and real-time PCR quantification of chytrid fungus and ranavirus with each sample run in triplicate. Sample processing will be \$10 per sample for Federally-funded projects or \$11 for non-federally projects. For more information, please contact Andrew Storfer ([astorfer@wsu.edu](mailto:astorfer@wsu.edu)).
- An informal 'Neuergus interest group' has been established. This group of mainly European zoos and private enthusiasts communicates by email and is developing a programme of conservation measures for the *Neuergus* species newts from Iran and Turkey. Hopefully the first official AARK Taxon Coordinator and Taxon Management Plan will not be far away.

### Training & Other Capacity Building

- Durrell's course in Bolivia apparently postponed until January 2009.
- Husbandry course planned for Indonesia in early 2009.
- Kevin Z, Joe Mendelson and Ron Gagliardo will teach at 7th AZA [Amphibian Biology, Conservation & Management](#) course in Toledo 8-14 November 2008. Special thanks to Toledo Zoo for continuing to host this course.
- Husbandry course tentatively planned for Peru in November 2008.
- Husbandry course planned for Brazil in March 2009; **funding received from WAZA!**
- Advanced husbandry course planned for Malaysia delayed until April 2009.
- Durrell Amphibian Conservation and Husbandry (ACH) course planned for Cameroon in April 2009 to be run by Gerardo Garcia (Durrell) and Richard.
- Durrell ACH course planned for Sri Lanka in late 2009 to run by Gerardo and Jamie Copesey (Durrell) and Richard.
- Plans for regional EAZA amphibian husbandry courses all over Europe are well developed. Those in Latvia/Russia, Netherlands/Belgium and Germany will take place before the end of the year while Scandinavian, Spanish and French courses are timetabled before the spring of 2009.

### Research Efforts

- Numerous universities are researching the genetic basis of chytridiomycosis. This research may lead to genetic engineering possibilities for shielding species from chytridiomycosis enabling rehabilitation of rescued populations.
- There have been considerable controversies about the relative merits of dietary and UVB-provided vitamin D3 in amphibian health. Antwerp Zoo is instigating a research program to address these issues.
- Conservation alliances for amphibian conservation including research in Cameroon are being developed in conjunction with a prioritization/symposium/training meeting planned for Cameroon in late April 2009.
- The AArk Science and Research web resource is being continually developed. Specific documents will be available through the Science and Research [http://www.amphibianark.org/science\\_research.htm](http://www.amphibianark.org/science_research.htm). Important recent additions are a number of methodologies, and also reviews and techniques for amphibian reproduction.
- A number of universities are studying skin peptides and pheromones in amphibians <http://www.amphibia.be/Amphibia/Home.html>, including antimicrobial effects of skin peptides <http://icb.oxfordjournals.org/cgi/content/full/45/1/137>.
- The first web meeting of the AArk Cryobanking Advisory Committee was held on September 24<sup>th</sup>. This meeting showed great global potential and enthusiasm by numerous institutions and individuals. A substantial management structure is being developed by the founding committee to harness this

potential.

- Robert is to give a talk on conservation breeding programs and research in zoos at the Deutsche Gesellschaft für Herpetologie und Terrarienkunde (German society for Herpetologie and Terrarienkunde) Marktheidenfeld, Bavaria from November 7-9<sup>th</sup> 2008.
- The European conservation breeding program for the Chinese giant salamander is developing with 6 founders now identified. This project will be led by Rotterdam Zoo.
- Chester Zoo is hosting and co-supervising with Manchester University, a PhD project investigating the role of UV light and dietary carotenoids in the retention of normal skin pigmentation in captive phyllomedusine frogs.

## Communications/Development

### • The AArk 2008 YOTF campaign:

- Chris Schluter and Heath Van Ness helping us GREATLY with PR/development efforts, including work with Clorox, Corwin, NABT, Cousteau, etc.
- Bob Lacy presented the AArk poster at the Conservation Congress in Barcelona.
- Ron and Elizabeth promoted AArk and met with Jean-Michel Cousteau at the National Association of Biology Teachers meeting in Memphis TN.
- Ron attended National Science Teacher Association meeting in Charlotte, NC where Jeff Corwin premiered his new documentary.
- Richard working with colleagues in UK to organize and deliver the Linnean Society symposium 'The Global Amphibian Extinction Crisis' on 6 November 2008.
- Kevin Z working to support Bronx and London Zoo staff as they organize a symposium [Halting the Global Decline in Amphibians](#) 20-21 November 2008, which will include many excellent presentations by AArk staff and partners from around the world.
- Kevin Z gave YOTF presentations at Cuyahoga Valley National Park, Adelaide Zoo, WAZA, Chicago Audubon chapter, Chicago Zoological Society, Ithaca College.
- Kevin Z and Kevin J gave presentations on the recent AArk institutional resource survey, and on regional and institutional achievements in the Year of the Frog, at the annual CBSG meeting in Adelaide.
- Regional associations report fundraising efforts:
  - EAZA: ~\$600,000 and counting
  - ARAZPA: ~\$20,000
  - JAZA: ~\$20,000
  - AZA: committed to match EAZA

### • The YOTF Resource Survey:

- 142 respondents
- 85 new rescue populations
- Currently 33 biosecure areas, most new this year, with 100 in planning
- \$4.4 million spent on captive programs this year, with \$12.1 million planned in the next 5 years
- \$868,000 spent on fieldwork this year with \$2.1 million planned in the next 5 years
- 2000 news stories in past 6 months
- Almost \$1 million in advertising equivalent value in YOTF
- Only half of institutions raising money
- This is all great and we should be proud! But, there is still so much left to do. 500 species need our help, but only 1 new rescue species was added in 2008, while 10 went extinct in the wild. A group of second-graders in Ohio raised more funds for AArk than 96% of the world's zoos. Please, take advantage of the YOTF media frenzy and continue your capital campaigns and new conservation

programs into 2009 and beyond!

- **The AArk website:**

- The site is now available to visitors in China (the previous server was banned by China), and work has begun on the Chinese versions of the web site. Two versions are being developed in parallel, one in Simplified Chinese and one in Traditional Chinese.
- **Research pages:** We have started building a number of research pages on the [AArk portal](#), and these will grow over the coming weeks. Thanks to Robert Browne for compiling the data for these pages.
- **Website languages:** [Spanish](#) and [German](#) are available with Chinese coming soon.
- **InfoPack:** [Portuguese](#), [English](#), Chinese [traditional](#), Chinese [simplified](#), [Japanese](#), [German](#), [French](#), and [Spanish](#), are available. We also have a few regional InfoPacks available: [EAZA](#) and [AZCARM](#) (in Spanish); regional representatives who would like their region's InfoPack on the web please send it to [Kevin J](#). The AArk Mask (two versions in English and one in Japanese), and the AArk Banner (24x60inches) with the campaign slogan are also available for [download](#).
- **Online Petition:** An online petition urging politicians and parliaments of the world to commit resources for urgent global action is now available [online](#). The petition is available in English and German, and is currently being translated into Spanish. It is also available in [French](#) on the WAZA website. So far, [7,226](#) signatures have been received via the online petition.
- **Videos online:** A number of videos, including Jeff Corwin, Kevin Zippel and others are available [online](#). Sir David Attenborough records [interview](#) for YouTube. Jean-Michel Cousteau records [PSA](#) for YouTube. [New videos this month include a video supporting the Year of the Frog, kindly produced by Fabián Aguirre and Dallas Zoo.](#)
- **News From the Zoos:** The new page [News From the Zoos](#) is ready for all regional associations who want to post information about their YOTF activities. Currently there are links to each region's web page but those who want AArk to create a new page for them please send the information to [Kevin J](#). You can also send to Kevin J the [names of the regional representatives](#) for the YOTF campaign if not listed on the website.
- **Visitors:** Site visitation has increased this month.

Month	Visits	Month	Visits	Month	Visits
Oct-06	306	Jul-07	2,420	Jun-08	41,567
Nov-06	331	Sep-07	4,754	Jul-08	36,924
Dec-06	302	Oct-07	6,228	Aug-08	41,371
Jan-07	336	Nov-07	9,972	Sept-08	46,873
Feb-07	4,122	Dec-07	10,191	<b>Oct-08</b>	<b>48,117</b>
Mar-07	2,574	Jan-08	31,076		
Apr-07	2,763	Feb-08	32,636		
May-07	2,816	Mar-08	20,716		
Jun-07	3,361	April 08	47,600		
Aug-07	4,587	May-08	47,864		

- **Fundraising and sponsorship**

- The Amphibian Project is selling a number of items on [their site](#) to raise money for Africam Safari and their program to save the large-crested toad *Ollotis crisata*.
- Our wonderful friends at Froguts Inc. have very generously offered to give a free copy of their virtual dissection software to any interested AArk partner institutions. You can review the product at [www.froguts.com](#), and request your copy from David Hughes, Co-Founder Froguts Inc.

[david@froguts.com](mailto:david@froguts.com).

- HOPart: IUCN Asia regional office is planning at least six high-profile gala art auctions in key locations around the world in late 2008 to raise \$1-4 million for AArk and other ACAP activities.
  - Business partners selling items and donating a percentage of the profits to AArk can be found in our online [shop](#). AArk now has an [account with MissionFish](#) to accept donations from eBay sellers, and also with [Network For Good](#) and [Just Give](#). **Check out one of our new artist partners on eBay.**
  - All frog naming auctions are on hold while we consult with outside experts about maximizing our returns.
  - We are working on a proposal to Tiffany's for a line of frog items to benefit AArk.
  - Our partners at Mythix.com have organized a number of [concerts](#) in October/November to benefit AArk and other wildlife conservation organizations.

- **From WAZA**

WAZA Training Grants

- The 1st Brazilian Course on Captive Management and Conservation of Amphibians submitted by Sorocaba Zoo / SZB was the winner of this year's WAZA Training Grant. They will receive 15'000 EUROS from the WAZA core budget.

German-speaking Amphibian Programme:

- The manuscript of the educational brochure prepared by Stiftung Artenschutz was reviewed, and the document is now ready for printing. The print run will probably be 20'000. The VDZ has agreed to contribute 5000 EUROS and the German Animal Parks Association and the German-speaking Zoo Educators have agreed to contribute 1000 EUROS each to the production costs.
- A fact sheet on *Tylotriton shanjing* husbandry (in German) was received from Detlef Karbe and will be published on the VDZ website ([www.zoodirektoren.de](http://www.zoodirektoren.de)).
- After 2126 EUROS were received from Naturschutz-Tierpark Görlitz and 3000 EUROS from Zoo Nürnberg, we have now 5316 EUROS on the German amphibian account. Of this amount, 3'190 EUROS will be for joint projects of the German-speaking Zoo Associations and 2'126 EUROS for AArk coordination.
- The following amphibian projects received the WAZA Brand in October:
  - 08020 – Management of amphibian habitat “Sand pit Weikersdorf” (Udo Ganslosser for Tierpark Bischofswerda)
  - 08021 – Supporting Titicaca Water Frog conservation (Birgit Benzing, Stiftung Artenschutz)
  - 08022 – Restoring and managing Amphibian habitats around Aquazoo (Sandra Honigs, Aquazoo Düsseldorf)
  - 08023 – *Ex situ* breeding of and research on endangered exotic amphibian species (Sandra Honigs, Aquazoo)

These projects will be presented on both the WAZA and VDZ websites.

Amphibian Petition

- The second CD-ROM with signatures has finally arrived from SAZARC, bringing the total of signatures from that association to 11'839.
- EAZA has forwarded 1910 signatures from Natur'Aquarium Trouville (France), 4900 signatures from Kharkiv Zoo (Ukraine) and 97 signatures from Zoo Magdeburg.
- Tiergarten Worms sent another ca. 180, and Tierpark Nordhorn ca. 400 signatures, and a few were received from Swiss institutions. The total of signatures received by the WAZA Office has now exceeded 41'000.

## Travel and Workshop Schedule

This schedule changes frequently; contact the AARK Staff for further details.

<b>Dates</b>	<b>Meeting Description</b>	<b>Location</b>	<b>AArk Staff, SC member, affiliates</b>
<b>NOVEMBER 2008</b>			
5-7	Biodiversity conservation meeting	Sao Paulo, BRAZIL	Zippel
6	Frog Symposium Meeting, Linnean Society of London	London, ENGLAND	Buley, Dickie, Gibson, Reid
8-14	AZA Amphibian Biology & Management	Toledo, OH, USA	Gagliardo, Mendelson, Zippel
10-12	prioritization workshop	PANAMA	Crump
18	Satellite media tour	New York, NY, USA	Corwin
20-21	Frog symposium, Zoological Society of London	London, ENGLAND	Attenborough, Bonner, Browne, Dickie, Gibson, Johnson, Mendelson, Reid, Zippel
<b>DECEMBER 2008</b>			
8-9	Nat'l Council on Science and the Environment conference	Washington, DC, USA	Mendelson, Rabb
<b>FEBRUARY 2009</b>			
16-18	IMLS meeting	San Diego, CA, USA	TBD
TBD	prioritization workshop	INDONESIA	Johnson
TBD	husbandry workshop	INDONESIA	McFadden
<b>APRIL 2009</b>			
18-24	AZA Amphibian Biology & Management	Toledo, OH, USA	Gagliardo, Mendelson
TBD	species prioritization workshop	CAMEROON	Browne, Gibson
TBD	Advanced husbandry workshop	Kuala Lumpur, MALAYSIA	TBD

## Acknowledgements 31 October 2008

*The work of AArk is possible due to the generous support of the following individuals and institutions in 2007 or 2008:*

### **Up to \$50,000**

Chester Zoo  
Chicago Zoological Society  
The Clorox Company  
Columbus Zoo & Aquarium  
Conservation Breeding Specialist Group (CBSG)  
Saint Louis Zoo  
SeaWorld & Busch Gardens  
World Association of Zoos & Aquariums (WAZA)  
Zoological Society London

### **Up to \$10,000**

Allwetterzoo Münster  
ARAZPA  
James Bramsen  
Denver Zoo  
Fowler Printing & Graphics  
Omaha's Henry Doorly Zoo  
Paignton Zoo  
The Living Desert  
Zoologischer Garten Leipzig

### **Up to \$5,000**

Al Ain Zoo & Aquarium  
American Frog Day 2007  
BIAZA  
Binder Park Zoological Society  
Blue Planet Aquarium  
Bristol Zoo Gardens  
Cleveland Metroparks Zoo & Cleveland Zoological Society  
Como Zoo  
Disney's Animal Kingdom & Animal Programs  
Galveston Chapter of the AAZK  
International Herpetological Symposium  
Marwell Zoological Park  
Nordens Ark  
North American Amphibian Conference  
Ocean Park Conservation Foundation  
Philadelphia Zoo  
Nick & Sue Pinder  
Rosamond Gifford Zoo  
Sedgwick County Zoo  
Singapore Zoo  
Tokyo Zoo Conservation Fund  
Toledo Zoo  
Toronto Zoo  
Wildlife Conservation Society

ZooAmerica & Ripley Entertainment  
Zoos South Australia

### **Up to \$1,000**

Barcelona Zoo  
Birmingham Zoo & Birmingham Zoo Chapter AAZK  
Brookfield Zoo AAZK  
Buffalo Zoo  
Cameron Park Zoo  
Digital Frog International  
Kansas City Zoo  
MARS Preservation Fund  
Minnesota Zoo  
Nashville Zoo  
New Mexico Bio Park Society  
Publishing Concepts, LLC- Missouri Meetings & Events  
Ryan & Christiana Reed  
Rochester Museum & Science Center  
Royal Veterinary College  
Zoological Society-London  
Sacramento Zoo  
San Francisco Zoological Society  
Staten Island Zoo  
Taipei Zoo  
Tampa's Lowry Park Zoo  
Universeum Gothenburg

### **Up to \$500**

John Adams  
Susan Anderson  
Anonymous  
Kara Blakeslee  
Darlene & Troy Bohanon  
Quinn & Tate Boyd-Mullineaux  
Richard Colwin Bryarly Jr.  
Stephany Burge  
Sky Button  
Chris & Dave Chadwick  
Chattanooga Zoo  
Chesapeake Chapter AAZK  
The Students at Child Craft Schools  
Clyde Peeling's Reptiland  
Coram Elementary School 4<sup>th</sup> Grade  
Meghan de Souza  
Detroit Zoo  
Nicole Duncan  
ED's Fly Meat  
Joseph Geever

Stuart Haber in memory of Gus Kaufman  
M. Buffy Hodgetts  
Heribert Hofer  
Kirstin Hunter  
Johannesburg Zoo  
Gary & Roberta Kirkland  
Lake Forest Academy-*The Spectator*  
Leon Zoo  
Janie & Rick Levis  
Luke, Mona, Heidi, & Meisha Lorge  
JoAn & Ian MacBryde  
Thomas Martin  
Marian Van Eyk McCain  
Miami Metrozoo's Volunteer's & Docents  
Laura & Paul Miller  
Joseph Miscimarra  
Geneve Monnes  
Marianne & Mike Murphy  
Natuurpunt Neerpelt  
Mariann Pancoe  
Lisette Pavajeau  
Donald Popham  
Pueblo Zoological Society  
Sage Rentfrow  
Rosamond Gifford Zoo in honor of Kevin Zippel  
Claire Rosser  
SAAMBR  
St. John's College School & Ros Wombwell  
Heather St. Louis  
Noriaki Santo  
Scovill Zoo AAZK  
Jan Sealover  
Kelly Seals  
Remembering Nicole Seaman  
Sequoia Park Zoo Foundation  
Henry Siu  
Eliza Steffen  
Diane Sutherland & Rodger Latch  
Gloria Svampa  
Jason Titus  
Tremont Elementary School 2<sup>nd</sup> Grade  
Univ. of Chicago Laboratory Schools-5<sup>th</sup> Grade Frog Club  
Remco van Poeke & Jetske de Boer  
Alistair Ward

Douglas Widener  
In honor of Winona & Rupert Wisconsin Wetlands Association  
Jimmy Womack  
Katherine Wright  
Zoo New England

### **Up to \$100**

Alta Vista Elementary  
Marilyn Anderson  
Anonymous  
Jack Blackway  
Janet Bogue  
Mark Cain  
Robert & Monique Canonico  
William Chambley  
Suzanne Conaway  
Charlotte Connor  
David Corsini  
Janet Corson  
Mark Craig  
Gaston & Mimi Daumy  
Robert & Sue Dupré  
Brett Eisenlohr  
Mary Farr  
Alison Fearnley  
Nate Flesness  
Jonathan Foise  
Marvin Goldberg  
Judi Goldfader  
Lee & Shirley Griffey  
Hans-Erik Hansson  
Harlequin Nature Graphics  
Terri Harmon  
Julia Hertl  
Elizabeth Hodgdon  
Jennifer Hunter  
Amanda Jackson  
Wong Pak Ki  
Neil Kumar  
Andrew Luk  
Catherine & David MacKay  
Madison Community Foundation  
Diana Metrey  
Newport Aquarium  
Meg Oakes  
Steven Andrew Painter  
Linda Pather  
Amy, Alyssa, & Matthew Paul  
Amanda Pekin  
Cynthia Petrella  
Save the Prairie Society

Susan Schroeder  
South View High School  
Douglas Sovonick  
Jennifer Stambaugh  
Jonathan Stammers  
Regina Stine  
Daniel Sutter  
Michael Traynor  
Caroline Treadwell  
Jack Treece  
Karen Wallace  
Deborah Wallwork  
Kaye Ward  
Ryan Ward  
Cecilia Watson  
Laura Wessels  
Williston Middle School  
Mathieu Woldhuis  
Doug Woodhams

### Up to \$50

La Dawn Ahlborn-Smith  
Albright Middle School 5th  
Grade  
Jennifer Alexander  
Varun Anipindi  
Anonymous  
Christine Apolzer  
Deborah Baker  
Anna Barbosa  
Scott Barolo  
Jim Bartos  
Cindy Benson  
Rose Lee Benson  
Marcus Bingham  
Tami Blakeney  
Cecelia Bland  
Erica Booth  
Bettina Brinkley  
Molly Broadstock  
Jack & Margaret Broxholme  
Alison Burt  
Amanda Carrier  
Cheyenne Mountain Zoo & Bear  
Creek Nature Center  
Wallace Chin  
Michael Chislock  
Suzanne Conklin  
Lysa, Gillian, & Matthew  
Costallos  
Kayla Cruz  
Ian & Ray Cummings  
Laurent Daudet  
Naomi Doak  
Kimberly Egan  
Susan Emmerson  
Stacey Fallis  
Robert Farrell  
Kendra Felisky-Watson  
Bruce Ferguson  
James Frank  
Adam Frosh

Jean Garcia  
Roberto & Barbara Garcia  
Karen Glennemeier  
Jeanette Glew  
James Gordon  
Rick Greenwell  
Charles Hall  
Tracy Hart  
Briana Hazel  
Douglas Hull  
Lars Gerner Jensen  
Bernard Karwick  
Kitten Kephart  
Floyd King  
David & Marcie Klinger  
Lisa Klotz  
Justin Michaels Kmet  
Ulle Koolmar  
Ron & Kathleen Kornak  
Edward Kottmeyer  
Jeff Kwoikoski  
Nathaniel Lachenmeyer  
April Leach  
Daymone Lorge  
Ruben Lopez  
Patricia Malone  
Marena Marshall  
Kathy Mathis  
Sheila Mattick  
Melissa McCance  
Andrew McCann  
Sarah McCormack  
Christopher Michaels  
April Middleton  
Marsha J. Moore  
Beverly Morehouse  
Jane Morris  
John Muller  
Byron Mulligan  
Michelle Paul  
Andrea Peck  
L. Keith Pflum  
Laurie Pinkham  
Caroline Pople  
Linda Ray  
Lisa Reisman  
Nicole Rollins  
Helen Sandland  
Michael Sauer  
Donna Savage  
Mark Schiano  
Michael Schlenker  
Robin Seibert  
Sharon Silverman  
Joey Sinreich  
Sarah Sokolowski  
Christina Stanziano  
Gretchen Stricker  
Deborah Swain  
Stacy Tate  
Georgette Taylor  
Louann Thogmorton

Hannah Turner  
Nick Tutolo  
Valdosta Jr. Woman's Club  
Karen Valley & Meghan  
Namaste  
George VanArsdale  
Lisa Vertin  
Gwendolyn Weeks & Michael  
Steenbakkers  
Elissa Wells  
Javier Williams  
Jenine Wilson  
Rosalind Wombwell  
Diana & Thomas Woods  
Gregory L. Wojtowicz  
Melissa Wojtylak in honor of  
Grace Anne  
Zachary Wright  
Dustin Wyant  
Scott Zippel

### Up to \$25

Jennifer Adams  
Anonymous  
Kade Ariani  
Nicolas Barbieri  
Justice Barney  
Patience Barney  
True Barney  
Trust Barney  
Aaron Barsness  
Lailah Estelle Battles  
Matthew H. Becker  
R. Alan Belzung  
Ciara Boger  
Bernard Boulay  
Stephen Bowater  
Michael Bright  
Jessica Bryan  
Isabella C. Caldwell  
Robert Caldwell  
Adrienne Valdespino Caplan  
Jamie Carney  
Jessica Challis  
Citizens for Conservation  
Dorothy Clark  
Shelley Comella  
Michelle Contillo  
Michael Cotignola  
LeAnn Curry  
Sarah Cuypers  
Bruce Dain  
Deborah Daniels  
Drue Danz  
Rebecca Davy  
Jennifer Day  
Jeanne Delaney  
Kri Dubois  
Hannah Dunstan  
Peter Edwards  
Candis Ellis  
Thomas Farkas

In memory of FatFrog  
Hal Fisher  
Edward Flanagan  
Angela Ford  
David Forrest  
Joann Frankie  
Wendy Free  
Suzen Galvin  
Peter Germuska  
Caity Goodbody  
Kibret Gordon  
Melissa Graham  
Catherine Griffiths  
Susan Grosky  
Martijn ter Haar  
Jennifer Hagstrom  
Lee Hall  
Susan Handa  
Barbara Harris  
Stefan Hartmann  
Jennifer Havener  
Ashley Heeren  
Gracie Howlett  
Ben A. Hrach  
Lauren Hruska  
Kelly Huffman  
Elizabeth Lione Humke  
Sylvia Hurdle  
Jackie Irving  
Laura Janszen  
Chloe Jewel  
Chris Johnson  
Hazel Jones  
Tony Jones  
Adamandia Kapsalis  
Leota Kelsey  
Adam Kennedy  
Christina Kennedy  
Anne King  
Kathy Kirkland-Cady in honor  
of Kevin Zippel  
Lisa Klotz  
Kathy M. Krizek  
In memory of Patricia June  
Lambert  
Amber, Angus, & Noah  
Landry  
Brandon Lawrence  
Kelsey Lawrence  
Scott Lenhart  
Abby Leone  
Nicholas Leonetti  
Mona Lorge  
Victoria Louks  
Rob Magnanti  
Sally Mahoney  
Sandra Maler  
Angelica Martinez  
Lauren McCarthy  
Darla Michalicek  
Lisa Miller  
Paul Moss

Alissa Mudd  
Lawri Murray  
Samantha Nelson  
Darren Noble  
Thibault Normand  
Jean Novotny  
Michael Nunley  
Vinod Oedairadsingh  
Anne Oesinghaus  
Kasi Ostrander  
Kasey Parker  
Linda Pellegrino  
Lindsey Pierce  
Andrea Polanowski  
Patrice Powers  
Richard & Jacqueline Pracher  
Mary Quinn  
Harry Richards  
Jessica Rodriquez  
Cassandra Rogers  
Justin Rosenthal & his  
Grandmother  
Pete Ruppel  
Donald & Anette Sadenwater  
Dulcie Schmidt  
Mike Shelton  
Janet Shen  
Melanie Shurgalla  
Jennifer Smith  
Jodi Bolton Smith  
Matt Smithson  
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Alex Vactor  
William Valencia  
S.M. Vasich  
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Diane Vornoli in honor of  
Stephen  
Jade Warzenski  
Virginia Wasserman  
Christina Weidner  
Harold Weller  
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Valerie White  
The Whites Family  
Deborah Zeitman  
Peter Zrinski

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Anonymous  
Jill Baker  
Erin Baldwin  
Elyse Barksdale  
Myles Barrineau  
Marjorie Barton  
Christina Blankenship  
Jan Bombardier  
Amy Bonville  
Debora Borba  
Jon-Lee Kea Born  
Russell Bronson  
Abe Brown  
Jason Caldon  
Pamela Calnen  
Alexandra Cartolano  
McKay Caruthers  
Claire Cassar  
Marc Cieplinski  
In honor of Mr. Clabaugh  
Blanca Cohen

Catherine Comer  
Jennifer Cornett  
Heidi Creamer  
Matt Croskey  
Charlotte Cullen  
Anne Dennett  
Brenda DiAntonis  
John Dubin  
Tracy Emmanuel  
Steven Errick  
Sharon Ferrell  
Barbara Finch  
Holly Fiser  
Stephen Furgang  
Joanna Gerwitz  
James Gibbens  
Ben Graham  
Bri Handy  
Shlomi Harif  
Erika Harm  
Johanna Harvey  
Arlen Heeren  
Molly Hilton  
Justine Hirten  
Rob Holden  
L.H. Goorhuis-Hoogenberg  
Cecilia Hunt  
Io Entertainment  
Anna Jobsis  
John Kilpatrick  
Marcella Klein  
Lisa & Richard LaCombe  
Collette Lash  
Queenie Law  
Joseph Layden  
Phoebe Lenhart  
Stephanie Liao  
William Lukefahr  
Ashley Lungwitz  
Courtney Lynch

Matt Lyon  
Rita Mathieson  
Megan McEvers  
Kevin McMahon  
Rosalie McMenamin  
Geanine Meerbach  
Emily Mei  
Jennifer & Melvin Mejia  
Victoria Mendez  
Glen Mentgen  
Jennifer Miller  
John Moll  
Carol Nye  
John Ozmet  
Christine Pilotti-Cheshire  
Jedediah Pittman  
Meredith Placko  
Cayanne Ramuten  
Craig Rich  
Amanda Richardson  
Renée Richmond  
Gina Ross  
Samantha Rowland  
Megann Schaefer  
Ross Secord  
Peggy Sheets  
Genevieve Slavens  
Angela Kingston Smith  
Kelly Smitherman  
Jude & Ann Stromberg  
Franziska Tinner  
Destinee Trenberth  
Eric Troidahl  
Ekaterina Varlamov  
Dara Vitale  
Wes Wahlin  
Tami Wester  
Rebecca Lee Wilcox  
Jamie Woodward

***And through contributions  
in memory of beloved  
conservationist  
Mary Sughrue Rabb:***

Gerald Adelman  
Jill Allread & Pamela Freese  
Anonymous  
Terry & Sharon Anthony  
Kathryn Appelbaum  
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Zoo  
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Miguel Vallejo & Michelle Uting  
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David & Marvalee Wake  
Mark Warneke  
Lynn Weis  
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Karen & Randall Witter  
Kevin Zippel & Lynn Kirkland



***And contributions in honor of  
George Rabb's tenure as  
Chairman of the Illinois State  
Museum Board:***

James Ballowe & Ruth Ganchiff  
R. Lou Barker  
Illinois State Museum Staff Association  
Judith Lloyd Klauba  
Liberty Prairie Conservancy  
Meredith Mahoney  
Bonnie Styles  
Guerry & Michelle Suggs  
Karen A. Witter



***And in memory of pioneering  
biochemist and amphibian biologist  
John Daly***

Ronald Gagliardo & Paul Huggett  
Vicky Poole  
Kevin Zippel & Lynn Kirkland

