CONSERVATION & RESEARCH

>>> NEWLETTER <<<



September 2023



Updates from the summer

Here's what's been going on in the Conservation & Research Department in the last few months. Some people have asked, so I've included a staff structure to further introduce our team. You are more than welcome to reach out to any of us if you want to hear more about our projects or want to get involved.

Cheers, Sheila (Dr. Sinlan Poo, Curator of Research)

Announcements

The Conservation Action Network (CAN) grant is now opened for 2024! ALL zoo staff are welcomed to apply. More

info in email to

come.





Who's who in Conservation & Research (see diagram below)

RESEARCH

Tigers



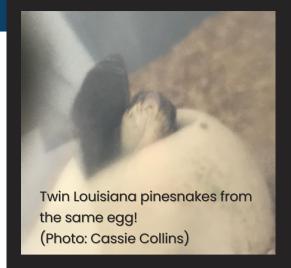
Dr. Joe Figer has set up 60 camera stations to survey Sumatran tiger populations in Indonesia. To help reverse hunting-induced declines, the Memphis Zoo is also supporting ranger patrols to monitor Sumatran tiger habitat and clear the forest of snares.

Zoo-Museum Collaboration

We are starting a new collaboration with **Memphis Museum of Science & History** (a.k.a. Pink Palace).



Snakes



Beth Roberts, Crista Fennessee, and Research Interns Rebecca Davis & Alex McBride traveled to the Audubon Zoo and froze sperm samples from terminally ill snakes.

Dr. Melanie Richter and Rebecca Davis are using **ultrasound** to examine the reproductive physiology of snakes.

Frogs



Dr. Sheila Poo and Research Interns
Madelyn Albritton & Jamie Bolan (with help
from Vet Tech Jennifer Grimley!)
conducted multiple projects comparing
toad parasites & skin microbiome in
urban (Zoo) vs natural (Shelby Forest)
habitats.

>> Night at the Zoo:
Washing a toad with
sterile water before
collecting skin
microbiome swabs.

Siamang

Beth Roberts, Crista
Fennessee, & Rhodes
student Lauren
Cordes are working
with Melissa Peterson
& team to collect
and analyze fecal
samples, so that we
can have more
information on
reproduction and
health.

STUDENTS & PUBLICATIONS



Master's student **Rebecca Davis** (U of Memphis; working with Dr. Melanie Richter) is beginning data collection for her project investigating the role **over-winter temperatures** play on **reproductive development** and readiness in male Louisiana pinesnakes.

Graduate Research



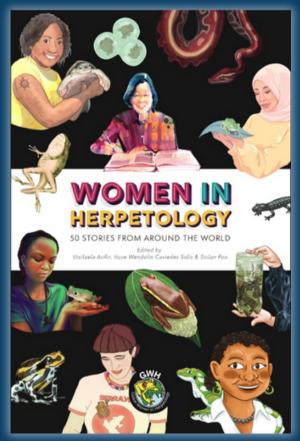
>> PhD student Jen
Terry (AR State U,
working with Dr. Sheila
Poo) finished her 2nd
year of collecting
demographic &
health data on
freshwater turtles in
China, Teton, and
other areas in the zoo.

Publications

- Beth Roberts edited & published in a special issue in *Theriogenology Wild* on reproductive health.
- Dr. Joe Figel published a paper in Wildlife Letters on factors affecting human-tiger conflict.

>> Summer Research
Interns Jamie Bolan,
Rebecca Davis, Madelyn
Albritton, & Alex McBride
worked on various projects
within amphibians, reptiles,
and mammals.

New Book!



Dr. Sheila Poo published a book called
Women in Herpetology:
50 Stories from Around the World

The book will support a <u>scholarship for</u> <u>underrepresented students</u> in STEM.

(Click here OR stop by Elephant Trunk to see the book!)

CONS & RES STAFF



Dr. Steve Reichling

Director of Conservation & Research



Sr. Conservation Biologist



Dr. Sheila Poo Curator of Research





Dr. Joe Figel Post-doc



LOUISIANA

PINESNAKE

OPEN HOUSE!

THURS, 10/26, 11AM-2PM

Stop by anytime to get a

behind-the-sceens tour, hear

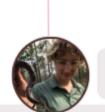
more about our work, or see our captive-breeding colony. (We are located behind Rhinos & on chanel 3.)

Jess Cantrell Resrch Husbandry Mngr





Dr. Melanie Richter Research Scientist



Cassie Collins Resrch Husbandry Tech

Mae Staab Seasonal Keeper



- Jess Cantrell Phoenix Zoo: Wild snake diseases.
- Dr. Joe Figel Point Defiance Zoo & Aquarium: Sumatran tigers.
- Beth Roberts collaborator in Dr. Erin Cury's (Cincinnati Zoo) IMLS grant: Bear reproduction.



ROUND-UP FOR **CONSERVATION**

T<u>hank you</u> to everyone helping to raise conservation funds by asking guests to round-up their purchases!

Reintroductions

The Research Husbandry Team contributed to wildlife conservation by rearing and/or releasing endangered Louisiana pinesnakes & dusky gopher frogs.



1281 frogs & 1282 tads released

