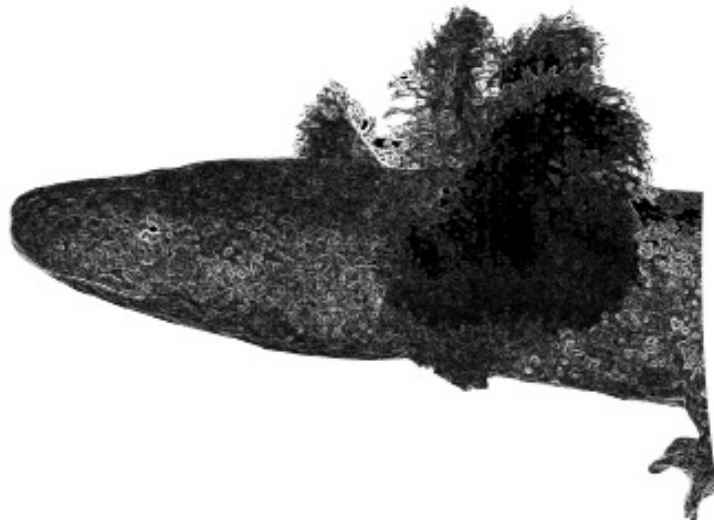


45th Annual Meeting  
*of the*  
**KANSAS**  
**HERPETOLOGICAL**  
**SOCIETY**



EMPORIA STATE UNIVERSITY  
Emporia, Kansas

2-4 November 2018



<http://www.cnah.org/khs>

# KANSAS HERPETOLOGICAL SOCIETY



45th Annual Meeting • 2-4 November 2018

EMPORIA STATE UNIVERSITY

Emporia, Kansas

All Scientific Paper Sessions are in Avaste Inn and Conference Center /Clarion

SATURDAY • 3 NOVEMBER 2018

8:00am - Registration for participants who did not pre-register: **Kelley Tuel** (KHS Secretary) and **Daren Riedle** (KHS Treasurer) just outside the Atrium. Free coffee, soft drinks, and donuts.

9:00 am • Welcome by **Lynnette Sievert**, President, Kansas Herpetological Society, Emporia, KS.

- 9:15 am • Facing fears for food: Does hunger modify snake behavior? **David Penning** and Zadok Self. Missouri Southern State University, Joplin, MO. davidapenning@gmail.com
- 9:30 am • Feeding methods for headstarting in juvenile Bullsnares (*Pituophis catenifer*). **Allison M. Carothers**, Dennis Ferraro, University of Nebraska-Lincoln, Lincoln, NE 68588. allicarothers@gmail.com †
- 9:45 am • Gigantic *Gopherus* gastroliths. **Carolyn Hanish** and Jon A. Moore. University of Nebraska-Lincoln School of Veterinary Medicine and Biomedical Sciences, Florida Atlantic University. creismi@gmail.com †
- 10:00 am • Prey under pressure: An analysis of the thoracic and intracranial pressures during constriction by kingsnakes. **Christian Neff** and David Penning. Missouri Southern State University, Joplin, MO. neffC003@mymail.mssu.edu †

Session 1

BREAK 10:15 to 10:30 am

**Travis W. Taggart**, Sternberg Museum of Natural History, Hays, KS.

- 10:30 am: • Distributional and seasonal activity patterns of the Mudpuppy in eastern Kansas. **Justin Autz**, Jennifer Buchanan, Michael Mahr, Alexis Powell, Lynnette Sievert, David Edds, and J. Daren Riedle. Department of Biological Sciences, Emporia State University, Emporia, KS. jautz@g.emporia.edu †, ‡
- 10:45 am • Spatial and sexual variation in diet of the Mudpuppy (*Necturus maculosus*) in Kansas. **Jennifer Buchanan**, Alexis Powell, and Lynnette Sievert. Emporia State University, Emporia, KS. jbuchan3@g.emporia.edu †, ‡
- 11:00 am • An investigation into range limits of the Northern Map Turtle in Kansas. **Michael S. Mahr**, Eric Kessler, Justin Autz, Jennifer Buchanan, Alexis Powell, Lynnette Sievert, David Edds, J. Daren Riedle. Emporia State University, Emporia, KS 66801. mmahr1@emporia.edu †, ‡
- 11:15 am • Comparisons of amphibian and reptile observations between larger woodland tracts and smaller fragments in eastern Kansas. **Melissa Skelton**, Zackary Cordes, J. Daren Riedle. Fort Hays State University, Hays, KS. mcskelton2@mail.fhsu.edu †, ‡
- 11:30 am • Influence of fire patterns on a herpetofauna community in an eastern Texas woodland. **Erin E Stiede**, Richard T Kazmaier, Michelle Caruana, and Ashley Tubbs. West Texas A&M University, Canyon, Texas. eestiede1@buffs.wtamu.edu †

Session 2

11:45 am KHS Group Photograph (Larry L. Miller, Kansas Heritage Photography, Wakarusa, KS)

LUNCH: noon to 1:30 pm

(Meeting participants are expected to forage independently, or in large groups if this provides leverage.)

1:30 pm • KEYNOTE ADDRESS:



Natural history of the Green Anaconda:  
With emphasis on its reproductive biology

**Jesús Rivas** , Ph D.

Department of Biology,  
New Mexico Highlands University,  
Las Vegas, New Mexico  
rivas@nmhu.edu

Keynote

Daniel Fogell, Southeast Community College, Lincoln, NE.

2:30 pm	• The effect of temperature on rate of digestion in <i>Anaxyrus woodhousii</i> . <b>Donglin Han</b> and Lynnette Sievert. Emporia State University Emporia, KS. dhan2@g.emporia.edu †, ‡	Session 3
2:45 pm	• The effect of temperature on <i>Pantherophis guttatus</i> prey-handling behavior. <b>Jeffery Anderson Jr</b> , Dr. Lynnette Sievert, and Dr. David A. Penning. Emporia state University, Emporia, KS 66801. jander36@g.emporia.edu †	
3:00 pm	• The effects of fire seasonality on herpetofauna in a sand sage prairie ecosystem. <b>Joselyn M. Gutierrez</b> , Richard T. Kazmaier, Matthew W. Poole. West Texas A&M University, Canyon, TX. joselyngutierrez2@yahoo.com †	
3:15 pm	• Establishing long-term herpetofauna monitoring sites in southeast KS. <b>Jake Wright</b> , Rachel Wood, Christine Rega-Brodsky, Andrew George. Pittsburg State University, Pittsburg, KS. jake.wright@gus.pittstate.edu †, ‡	
3:30pm	• Effects of parasitism on stress levels in Northern Watersnakes ( <i>Nerodia sipedon</i> ). <b>John Bellah</b> , Lynnette Sievert, and Stewart Gardner. Emporia State University. Emporia, KS. jbellah@g.emporia.edu †, ‡	
3:45 pm	• Grip it and flip it 2.0: Season two of herpetofaunal composition and monitoring at the Sternberg Natural Area. <b>Jacob N. Alexander</b> , Curtis J. Schmidt, Morgan A. Noland, Mitchell J. Greer. Fort Hays State University, Hays, KS. jnalexander2@mail.fhsu.edu †, ‡	
4:00 pm	• A needle in a haystack: Searching for <i>Holbrookia maculata</i> in a south central Kansas sand prairie. <b>Adrianna G. Hodges</b> and Dexter R. Mardis. Wichita State University, Wichita, KS. aghodges@shockers.wichita.edu †, ‡	

BREAK 4:15 to 4:30 pm

4:45pm	<p>KHS General Business Meeting, KHS President <b>Lynnette Sievert</b> presiding            Introduction of KHS Officers and Dignitaries by <b>Lynnette Sievert</b>            KHS Treasurer's Report for 2018 by <b>Daren Riedle</b>            KHS Secretary's Report for 2018 by <b>Kelley Tuel</b>            KHS Editor's Report for 2018 by <b>Travis W. Taggart</b>            KHS Historian's Report for 2018 by <b>Suzanne L. Collins</b></p> <p>Report on Plans for the 46th Annual KHS Meeting in Hays, KS on 1-3 November 2019 by            KHS President-Elect <b>Curtis Schmidt</b>, Sternberg Museum of Natural History, Hays, KS.</p> <p>Election of KHS Officers for 2019.            The KHS Nominating Committee Chair, <b>Brent Schulze</b> (Denver, Colorado), offers the following slate of candidates:</p> <ul style="list-style-type: none"> <li>• For President-Elect • <b>Christopher Visser</b> (Lincoln, NE)</li> <li>• For Treasurer (unopposed) • <b>Daren Riedle</b> (Pratt, KS)</li> <li>• For Secretary • <b>Dexter Mardis</b> (Wichita, KS) and <b>Keith Geluso</b> (Kearney, NE)</li> <li>• Announcement of the results of the KHS election by the KHS President</li> </ul>	KHS General Business Meeting
--------	---	------------------------------

4:30 pm	<p>KHS Awards Ceremony  <b>Daniel D. Fogell</b> (Southeast Community College, Lincoln, Nebraska)</p> <ul style="list-style-type: none"> <li>• Presentation of the <i>Henry S. Fitch-Dwight R. Platt Award for Field Herpetology</i> for 2018. The recipient receives a commemorative certificate and a check for \$200.00.</li> <li>• Presentation of the <i>Howard Kay Gloyd-Edward Harrison Taylor Scholarship</i> for 2018. The recipient receives a commemorative certificate and a check for \$300.00.</li> <li>• Presentation of the <i>Alan H. Kamb Grant for Research on Kansas Snakes</i> for 2018. The recipient receives a commemorative certificate and a check for \$300.00.</li> <li>• Presentation of <i>The Suzanne L. and Joseph T. Collins Award for Excellence in Kansas Herpetology</i> for 2018. The recipient of The Collins Award receives a commemorative certificate and a check for \$1000.00.</li> </ul>	KHS Award Ceremony
---------	---	--------------------

KHS Business Meeting adjourns around 5:00 pm. Dinner at the restaurant of your choice. Then make your way to the Avaste Inn and Conference Center /Clarion, 2700 W 18th Ave, no later than 6:30 pm; that's where FREE BEER, SOFT DRINKS, and SNACKS are located for the Poster Session and Annual Auction.

DINNER ca. 5:00 pm to 6:30 pm

(Meeting participants are again expected to forage, this time with greater skill because of their lunch-time experience.)

- 6:30 ~
- The annual **Saturday night social, poster session, and fund-raising auction** will be held at the Avaste Inn and Conference Center /Clarion, 2700 W 18th Ave, Emporia, KS 66801 starting at 6:30pm. KHS will provide FREE BEER, SOFT DRINKS, and SNACKS. The auction will be preceded by the 3rd annual poster session. The poster session will run from 6:30 to 7:30 pm. All presenters may set up posters from 6:00 to 6:30 in the CLC.
  - The **Walter E. Meshaka, Jr. Award for Excellence in Ecology** will be awarded following the poster session. The Meshaka Award may be awarded to any poster presented that pertains to North American herpetology, and comes with a Commemorative Certificate, and a check for \$100.
- 7:30 pm -
- The **KHS Auction** will feature many breath-taking books and other items (of questionable value). The KHS takes cash, credit cards, and checks. Be sure and get a bidding number before the auction commences. Bid vigorously, and support the KHS.

Please bring herpetological items for the auction. Deliver them to the auction site Saturday evening. We count on you to bring items about amphibians, or reptiles and other stuff oriented to herpetology. PLEASE DO NOT BRING LIVING OR DEAD ANIMALS. No specimens or body parts of herpetofauna will be sold at auction. Auctioneer **Dan Fogell**, will provide the entertainment and the KHS will supply snacks and beverages. Bring herpetological items to donate (the more scandalous the better) and join us for a relaxing and fun-filled evening.

#### SUNDAY • 4 NOVEMBER 2018

- 8:00 am Registration for participants who did not register on Saturday: **Kelley Tuel** (KHS Secretary) and **Daren Riedle** (KHS Treasurer) just outside the Atrium. Free coffee, soft drinks, and donuts.

**Alexis Powell**, Department of Biological Sciences, Emporia State University

- 9:00 am
- When females raise their voices: Calling behavior of the Smooth Guardian Frog of Borneo (*Limnonectes palavanensis*). **Johana Goyes Vallejos**, T. Ulmar Grafe, Kentwood D. Wells. Biodiversity Institute, University of Kansas, Lawrence, KS. goyes.johana@gmail.com †
- 9:15 am
- Testing species limits in a cryptic species complex of Hispaniolan lizards (*Anolis distichus*). **Tanner C. Myers**, Pietro L. H. de Mello, and Richard E. Glor. Biodiversity Institute, University of Kansas, Lawrence, KS. tanner.myers@ku.edu †
- 9:30 am
- Occupancy analysis of selected herpetofauna species at range periphery in Southeast Nebraska. **Brock C. Lorenzen**, Dennis Ferraro. University of Nebraska-Lincoln, Lincoln, NE. b.Lorenzen8@gmail.com †
- 9:45 am
- Occupancy modeling of Broad-headed Skinks (*Plestiodon laticeps*) in eastern Kansas. **Zackary Cordes**, J. Daren Riedle. Kansas Department of Wildlife, Parks & Tourism, Pratt, KS. zackary.cordes@ks.gov ‡
- 10:00 am
- The snack that smiles back: Venom resistance of Colorado rodents to two grassland rattlesnakes. **Neil R. Balchan** and Stephen P. Mackessy. University of Northern Colorado, Greeley, CO. neil.balchan@unco.edu †

BREAK 10:15 am to 10:30 am

**David Edds**, Department of Biological Sciences, Emporia State University

- 10:30 am
- The role of scale in analysis of river turtle assemblages. **J. Daren Riedle**, Travis Anthony, Day B. Ligon, and David R. Edds. Kansas Department of Wildlife, Parks, & Tourism, Pratt, KS. daren.riedle@ks.gov ‡
- 10:45 am
- This land is your land: The importance of public lands in herpetology and wildlife conservation. **Anthony E. Bridger**. Bureau of Land Management, Rawlins Field Office, Rawlins, WY. abridger@blm.gov
- 11:00 am
- Home range and population dynamics of the Ornate Box Turtle (*Terrapene ornata*) at Quivira National Wildlife Refuge. **Diedre L. Kramer** and William J. Stark. Fort Hays State University, Hays, KS. dlkramer3@mail.fhsu.edu †, ‡
- 11:15 am
- Road mortality of herpetofauna along two-lane highway in south-central Kansas. **William Lanlgey**. Wichita, KS. 78gmouse43@gmail.com ‡

- 11:30 am Presentation of the 10th annual George Toland Award by KHS Awards Committee Chair **Daniel D. Fogell**. The award is given for the best paper presented at this meeting by a KHS student member on the ecology of North American amphibians, reptiles, turtles, and/or crocodylians. The KHS Awards Committee will select the winner. The recipient must be present to receive the commemorative certificate and a check for \$200.00, co-sponsored by the KHS and The Center for North American Herpetology.

#### ADJOURNMENT

Have a safe trip home. See you on the first weekend in November 2019 in Hays, for the 46th Annual KHS Meeting.

## POSTERS

1. Fat, feisty, and fast? Striking and constriction performance from Borneo Pythons (*Python breitensteini*). **Nathan Piccoli** and David Penning. Missouri Southern State University, Joplin, MO. piccoliN001@mymail.mssu.edu.
2. Aquatic turtles on four Emporia State University Natural Areas. **Jacob Schaefer**. Department of Biological Sciences, Emporia State University, Emporia, KS. jschae5@g.emporia.edu.
3. Biomechanical trade-offs across ontogeny? Striking and constriction performance in Rosy Boas (*Lichanura trivirgata*). **Jillian Hackney**, Nathan Piccoli, and David Penning. Missouri Southern State University, Joplin, MO. hackneyJ003@mymail.mssu.edu.
4. Potential for using photo-identification software in Kansas herpetological population studies. **Hannah Hoetmer**. Wichita State University, 1845 N Fairmont, Wichita, KS. hhoetmer@icloud.com.
5. Manipulating body temperature to test for elastic recoil mechanisms in an Australian Python (*Morelia spilota*). **Veronica Nguyen**, Jillian Hackney, & David Penning. Missouri Southern State University, Joplin, MO. nguyenV003@mymail.mssu.edu.
6. Silver-spoon snappers? Comparing bite forces in wild and head-started populations of Alligator Snapping Turtles (*Macrochelys temminckii*). **David Penning**, Teddy Pashia, Kameron Voves, and Day Ligon. Missouri Southern State University, Joplin, MO. davidapenning@gmail.com.
7. Long-term occurrence patterns of reptiles and amphibians on reclaimed mined lands. **Rachel Wood**, Jake Wright, Christine Rega-Brodsky, Andrew George. Pittsburg State University, Pittsburg, KS. rstyers@gus.pittstate.edu.
8. Analysis of strike kinematics in Kenyan Sand Boas (*Gongylophis colubrinus*). **Elva Wright** and David Penning. Missouri Southern State University, Joplin, MO. wrightE004@mymail.mssu.edu.

## AWARD CRITERIA

**The Suzanne L. and Joseph T. Collins Award for Excellence in Kansas Herpetology** is given to the member of the KHS who, in the preceding two calendar years, accomplished the following: Had published a paper of academic excellence on the systematics, ecology, or conservation of a native species of Kansas amphibian, turtle, and/or reptile in the Journal of Kansas Herpetology, Transactions of the Kansas Academy of Science, Herpetological Review, or the Journal of Herpetology, and/or presented a lecture of excellence on the systematics, ecology, or conservation of a native species of Kansas amphibian(s) and/or reptile(s). To qualify for The Collins Award, a portion of the field work or observations must have occurred in Kansas, or the systematic data must have been based in part on Kansas specimens.

**Walter E. Meshaka, Jr. Award for Excellence in North American Herpetology** will be given to the best judged ecology poster.

† Signifies eligibility for the George Toland Award for Ecological Research on North American Herpetofauna.

‡ Denotes eligibility for the Suzanne L. and Joseph T. Collins Award for Excellence in Kansas Herpetology in 2018.

Annual Meeting participants are encouraged to forage at these local eateries which are close to the Avaste Inn and Conference Center /Clarion.

**SPANGLES**

2708 W 18TH AVE, EMPORIA, KS 66801

**WHICH WICH SUPERIOR SANDWICHES**

2000 INDUSTRIAL RD, EMPORIA, KS 66801

**BRUFF'S BAR & GRILL**

2640 W 18TH AVE, EMPORIA, KS 66801

**IHOP**

2831 W 18TH AVE, EMPORIA, KS 66801

**APPLEBEE'S GRILL + BAR**

2901 EAGLECREST DR, EMPORIA, KS 66801

**PIZZA RANCH**

3000 W 18TH AVENUE, EMPORIA, KS 66801

**MONTANA MIKE'S**

3010 EAGLECREST DR, EMPORIA, KS 66801

**COACH'S GRILL AND BAR**

2702 W 15TH AVE, EMPORIA, KS 66801

EMPORIA HAS MANY OTHER RESTAURANTS THAT ARE A FURTHER DISTANCE

**VENDORS:**

~ SMOKY HILL ECO SERVICES ~  
Custom field related items including herp bags  
Beverly Stark, Liebenthal, Kansas

**45th Annual Meeting Local Committee**

Lynnette Sievert (Chairperson)  
John Bellah  
Jeff Anderson  
Donglin Han  
Greg Sievert  
Alexis Powell  
David Edds  
Jennifer Buchanan  
Justin Autz  
Michael Mahr