

KANSAS HERPETOLOGICAL SOCIETY

51st Annual Meeting • 1-3 November 2024

Fort Hays State University, Hays, Kansas



ksherp.com



Local Committee: Bill Stark (Chair), Jacob Alexander, Sandra Guzman-Duran,
Nora Lazerus, Jackson R. Roberts, and Travis W. Taggart

WIFI: TigerNetGuest

FRIDAY • 1 NOVEMBER 2024

PROFESSIONAL DEVELOPMENT WORKSHOP:

Cale Morris - Phoenix Herpetological Sanctuary
@ Sternberg Museum of Natural History

1:30 - 4:30 PM

OFFICIAL MEETUP:

Defiance Brewing Company
111 W 7th St

4:30 - 10:00 PM

SATURDAY • 2 NOVEMBER 2024

8:00-9:00 AM Registration: **Keith Geluso** (*KHS* Secretary) and **Dexter Mardis** (*KHS* Treasurer) in the 2nd floor, FHSU Memorial Union Ballroom. Refreshments provided.

9:00 AM Welcome to Fort Hays State University.
Opening Address by **Bill Stark**, *KHS* President, Fort Hays State University, Hays.

9:15 AM

Keynote

Cale Morris, Phoenix Herpetological Sanctuary

UNDERSTANDING RATTLESNAKE BEHAVIOR: A STEP IN THE RIGHT DIRECTION

M. Cale Morris holds a Master of Education in Curriculum and Instruction and is the Venom Manager at the Phoenix Herpetological Sanctuary. As Venom Manager Cale is responsible for the PHS Antivenom Bank, cares for over 200 venomous snakes and lizards, and routinely teaches venomous snake handling classes. His research has focused on radio-telemetry and relocation of rattlesnakes in the extensive Phoenix metroplex, human interaction in bite behavior, and venom extraction. He has been a contributor to a number of published works focused on venomous snakes, as well as to media productions that include Animal Planet and National Geographic as well as more contemporary outreach in Buzz Feed News and Tik Tok. Cale has facilitated hundreds of venomous snake relocations and numerous training sessions in the safe handling and transport of venomous snakes.

10:00 AM THE RETURN OF ALLIGATOR SNAPPING TURTLES TO THEIR FORMER RANGE IN KANSAS.
J. Daren Riedle, Day B. Ligon, and Trevor Starks

BREAK 10:30 to 10:45 AM

Scientific Paper Session 1 - Moderator: **Alexis Powell**, Emporia State University, Emporia, Kansas

10:45 AM SLOWPOKE CIDER: RAISING A GLASS TO CONSERVATION AND HERPS.
Monica Macoubrie

11:00 AM WE ALL DRIFT DOWN HERE: MODIFIED MINNOW TRAPS TO INCREASE CAPTURE RATES OF MUDPUPPIES (*NECTURUS MACULOSUS*).
Zachary Schneider and Dr. Alexis Powell

11:15 AM PRELIMINARY OBSERVATIONS OF HERPETOFAUNA BIODIVERSITY SURVEYS IN THE RED HILLS ECOLOGICAL FOCUS AREA.
Victoria Gaa, Diedre Kramer, and Zack Cordes

11:30 AM WADING IN THE WAVEFORMS: ACOUSTIC SURVEY OF ANURANS ON FORT LEAVENWORTH MILITARY RESERVATION.
Khloe L. Braun, Nora K. Lazerus, and William J. Stark

11:45 AM *KHS* Group Photograph

LUNCH: 11:45 to 1:00 PM
(Meeting participants are expected to forage independently,
or in large groups if this provides leverage)

Scientific Paper Session 2 - Moderator: **Rich Glor**, University of Kansas, Lawrence, Kansas

1:00 PM MESSAGE IN A JAR: THE ROLE OF NATURAL HISTORY COLLECTIONS IN DOCUMENTING BIODIVERSITY AND EVOLUTIONARY CHANGES.
Ana Motta

1:20 PM MESSAGE RECEIVED: BUILDING COLLABORATION BETWEEN KANSAS' RICH REPOSITORIES TO FACILITATE AND DRIVE KANSAS HERPETOLOGY FORWARD.
Jackson R. Roberts

1:40 PM HERPETOLOGICAL COLLECTING IN KANSAS: A SYNTHESIS.
Travis W. Taggart

BREAK 2:15 to 2:30 PM

Scientific Paper Session 3 - Moderator: **Thomas Luhring**, Wichita State University, Wichita, Kansas

2:30 PM CLIMATIC INFLUENCES ON BODY SIZE IN KANSAS POPULATIONS OF *ANAXYRUS COGNATUS*.
Kaden Miller, Christian Supsup, and Ana Motta

2:45 PM EVALUATING PHOTO RECOGNITION AS A MARK-RECAPTURE TOOL IN LESSER SIRENS (*SIREN INTERMEDIA*).
Jacob Kearns, Sydney Falcon, Megan Flanagan, and Thomas M. Luhring

3:00 PM FROM DRYING TO THRIVING: THE EFFECTS OF DRYING-INDUCED TROPHIC CASCADES ON LARVAL SALAMANDER DEVELOPMENT.
Shania Burkhead-Harris

3:15 PM HOP, SKIP, AND A HUMP: MULTIPLE LINES OF EVIDENCE REVEAL CONTEMPORARY HYBRIDIZATION AMONG THREE SYMPATRIC RANID FROGS DESPITE STRONG POST-ZYGOTIC ENFORCEMENT.
Owen M. Edwards, Neil R. Balchan, Kaleb M. Banks, Fabio A. Machado, Michael S. Reichert, Bo Zhang, and Damien Esquerré

BREAK 3:15 to 3:30 PM

Scientific Paper Session 4 - Moderator: **David A. Penning**, Missouri Southern State University, Joplin, Missouri

3:30 PM RETURN OF THE (*LITHOBATES*) *BLAIRI*.
Thomas Luhring

3:45 PM QUANTIFYING THE EFFECTS OF PREY MASS ON BLOOD GLUCOSE IN *LAMPROPELTIS GETULA*.
Isra Khan and David A. Penning

4:00 PM CHRISTMAS EVERYDAY: A PRELIMINARY LOOK AT WHAT TO EXPECT AT CHRISTMAS MOUNTAINS NEAR BIG BEND NATIONAL PARK.
Thornton Larson

4:15 PM EVALUATING TRANSLOCATION STRATEGIES FOR BOX TURTLES IN URBANIZING LANDSCAPES.
Elizabeth Hays, Ethan J. Royal, Ethan C. Hollender, and J.D. Willson

DINNER ca. 4:30 to 6:00 PM

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

SATURDAY EVENING • 2 NOVEMBER 2024

Sternberg Museum of Natural History,
3000 Sternberg Drive, Hays, Kansas

6:00 PM - *KHS* Social/Posters/Collection Quiz

7:00 PM - *KHS* Awards Ceremony

Moderator: Daniel D. Fogell, Southeast Community College, Lincoln, Nebraska.

7:15 PM - *KHS* Auction

KHS Auctioneers **Eva Norton, Sydney Falcon, Tom Luhring, and Rich Glor** will offer up many breath-taking items. The *KHS* takes cash, credit cards, and checks. Be sure to get a bidding number before the auction commences. Bid vigorously and support the *KHS*. Light food/hors d'oeuvres will be provided.

SUNDAY • 3 NOVEMBER 2024

8:00-9:00 AM Registration: **Keith Geluso** (*KHS* Secretary) and **Dexter Mardis** (*KHS* Treasurer) in the 2nd floor, FHSU Memorial Union Ballroom. Refreshments provided.

Scientific Paper Session 5 - Moderator: **Andrew George**, Pittsburg State University, Pittsburg, Kansas

9:00 AM DAM GOOD AMPHIBIAN CONSERVATION IN SOUTH-CENTRAL PENNSYLVANIA.
Walter E. Meshaka, Jr., and Eugene H. Wingert

9:15 AM CAN YOU TAKE ME HIGHER: CONSIDERATION OF ELEVATION IN MONTANE RATTLESNAKE HOME RANGES.
Joshua J. Mead, Océane Da Cunha, L. Miles Horne, Elizabeth A. La Rue, and Jerry D. Johnson

9:30 AM FROM FEAR TO FEAST: INVESTIGATING RATTLESNAKE FORAGING STRATEGIES UNDER A LANDSCAPE OF FEAR THROUGH 3D-PRINTED SNAKE REPLICAS, TELEMETRY, AND MACHINE LEARNING.
Océane Da Cunha, Rio P. Dominguez, L. Miles Horne, Joshua J. Mead, Corentin Fournier, Jerry D. Johnson, and Brett M. Seymoure

9:45 AM QUANTIFYING STRIKE PERFORMANCE AND VENOM DELIVERY IN COTTONMOUTHS (*AGKISTRODON PISCIVORUS*).
David Penning, Nathan Piccoli, Kylie Atkinson, Grace Chang, Veronica Nguyen, and Brian Greene

10:00 AM BABY, IT'S COLD OUTSIDE: THE EFFECTS OF TEMPERATURE ON TURTLE CAPTURE EFFICACY IN OKLAHOMA.
Derek L. Bateman, Tessa N. Irvine, Kevin Babbitt, Alexander Edmond, and Day B. Ligon

BREAK 10:15 to 10:30 AM

Scientific Paper Session 6 - Moderator: **Walter E. Meshaka, Jr.**, State Museum of Pennsylvania, Harrisburg

- 10:30 AM HOW MANY SPECIES OF BARK ANOLES ARE ON HISPANIOLA?
Richard E. Glor
- 10:45 AM THE GUT MICROBIOME OF A LIZARD HOST IN RESPONSE TO DIFFERENT THERMAL ENVIRONMENTS.
Travis Robbins, Tiffany Hegdahl, Stephanie Cromwell, and Paul Ayayee
- 11:00 AM BEHAVIORAL VARIATION IN PREY HANDLING WITH RESPECT TO PREY SPECIES AND BODY TEMPERATURE EFFECTS ON POST-STRIKE TRAILING IN COTTONMOUTHS (*AGKISTRODON PISCIVORUS*).
Bryce F. Jarrett, Brian D. Greene, Samantha Grove, Alyssa Owens, and Christopher Watson.
- 11:15 AM THE DIET OF THE NORTHERN GIANT MUSK TURTLE (*STAUROTYPUS TRIPORCATUS*), A DUROPHAGOUS TURTLE.
Thomas M. Zapeltal, Larissa Saarel, Donald T. McKnight, and Day B. Ligon
- 11:30 AM BABY GOT BITE: STRIKE KINEMATICS OF THE DUROPHAGOUS NORTHERN GIANT MUSK TURTLE (*STAUROTYPUS TRIPORCATUS*).
Thomas M. Zapeltal, Larissa Saarel, Donald T. McKnight, David A. Penning, and Day B. Ligon
- 11:45 AM AIN'T NO MOUNTAIN HIGH ENOUGH: EXPLORING THE EFFECTS OF LANDSCAPE FEATURES ON EFFECTIVE MIGRATION RATES AT A FINE SPATIAL SCALE.
L. Miles Horne, Océane Da Cunha, Joshua J. Mead, Vicente Mata-Silva, and Philip Lavretsky
- 12:00 PM Presentation of the George Toland Award by *KHS* Awards Chair, **Daniel D. Fogell**

KHS General Business Meeting: *KHS* President **Bill Stark** presiding:

Introduction of *KHS* Officers & Committee Chairpersons
KHS Treasurer's Report by **Dexter Mardis**
KHS Secretary's Report by **Keith Geluso**
KHS Editor's Report by **J. Daren Riedle/Jackson R. Roberts**
KHS Historian's Report by **Suzanne L. Collins**
KHS Social Media and PR Chair's Report by **Shania Burkhead-Harris**
KHS Field Trip Report by **Travis W. Taggart**

Report on plans for the *52nd Annual KHS Meeting* on the first weekend in November 2025
by *KHS* President-Elect **Kelly Kluthe**, The University of Kansas, Lawrence

Election of KHS Officers for 2024

Lynnette Sievert (ESU, Kansas), the *KHS* Nominating Committee, offers the following slate of candidates:
For President-Elect • **Alexis Powell**, Emporia State University and **Tom Luhring**, Wichita State University
For Treasurer • **Dexter Mardis**, Wichita, KS
For Secretary • **Keith Geluso**, Kearney, NE

Announcement of the *KHS* election results by President **Bill Stark**

Closing remarks by **Bill Stark**

