

**50<sup>TH</sup> ANNUAL MEETING**

**KANSAS  
HERPETOLOGICAL**



**SOCIETY**

**NOVEMBER 3-5, 2023  
THE UNIVERSITY OF KANSAS**  
*Lawrence, Kansas*

## ACKNOWLEDGMENTS:

*Local Committee:* **Rich Glor** (Chairperson)  
**Rafe Brown**  
**Ana Motta**

*Sponsors:* **University of Kansas Biodiversity Institute**, Lawrence, Kansas  
**The Center for North American Herpetology**, Lawrence, Kansas  
**JTC Enterprises, LLC**, Lawrence, Kansas  
**Free State Beer**, Lawrence, Kansas

*Volunteers:* **Wendy Holman**, Kansas Biological Survey  
**Rafe Brown**, KU Biodiversity Institute  
**Ana Motta**, KU Biodiversity Institute  
**Rich Glor**, KU Biodiversity Institute  
**Errol Hooper**, KU Biodiversity Institute  
**Javier Torres**, KU Biodiversity Institute  
**Mark Herr**, KU Biodiversity Institute  
**Christian Supsup**, KU Biodiversity Institute  
**Hannah Som**, KU Biodiversity Institute  
**Camila Meneses**, KU Biodiversity Institute  
**Chan Kin Onn**, KU Biodiversity Institute  
**Kier Pitogo**, KU Biodiversity Institute  
**Saymé Pérez Martínez**, KU Biodiversity Institute  
**Tom Luhring**, Wichita State University  
**Shania Burkhead**, Wichita State University  
**Sydney Falcon**, Wichita State University  
**Grace Schafer**

THURSDAY • 2 NOVEMBER 2023

*No-host Social*

7:00 to 10:00 pm  
*Johnny's Tavern (Original)*  
401 N 2nd St, Lawrence, KS 66044

FRIDAY • 3 NOVEMBER 2023

*Afternoon Tours:* (by registration; see KHS website)  
Herpetology Division, KU Biodiversity Institute  
Fitch Reserve, KU Ecological Areas and Reserves

*Evening Social:*

6:30 to 9:00 pm  
*Dyche Hall Panorama*  
Herpetology Quiz: 7:15 to 8:15 pm  
Beverages and snacks provided: 7:00 to 8:45 pm

SATURDAY • 4 NOVEMBER 2023

8:00 am Registration: **Keith Geluso** (KHS Secretary) and **Dexter R. Mardis** (KHS Treasurer) in the *Burge Union*.  
Poster set-up. Drinks and snacks available.

PLEASE NOTE: Photographers competing for **The Suzanne L. & Joseph T. Collins Award for Excellence in Kansas Herpetology** must get their submissions set up and ready for viewing.  
Posters are available all day. Presenters are asked to be at their poster between 10:00 and 11:00 AM Sunday.

All-day Identify that Kansas Herp Quiz (*Burge Union*)

9:00 am Welcome by **Rafe Brown** KHS President, The University of Kansas.

MORNING KEYNOTE



*Re-wilding the Earth,  
Re-wilding our Lives*

**Dr. Harry Greene**  
University of Texas at Austin

**Scientific Paper Session 1** - Moderator: **Bill Stark**, Fort Hays State University, Hays, Kansas

- 10:15 am HOT TIMES AT WEST TEXAS MOUNTAIN HIGH: THE SPATIAL AND THERMAL RELATIONSHIP OF THREE SYMPATRIC RATTLESNAKES.  
**Joshua J. Mead** (jjmead@miners.utep.edu) and Jerry D. Johnson. Department of Biological Sciences, University of Texas at El Paso, El Paso, Texas.
- 10:30 am USING GENETICS TO UNRAVEL THE ECOLOGY OF A TEGU INVASION.  
<sup>1</sup>**Rachel N. Pikstein** (rpbiologist@gmail.com), <sup>2</sup>Walter E. Meshaka Jr., <sup>1</sup>Jeffrey S. Forrester, <sup>1</sup>Dean Williams, <sup>1</sup>Cydne M. Andrew, <sup>1</sup>Joseph B. Nies, <sup>1</sup>Brent Hilla, and <sup>1</sup>Matthew L. Arnold. <sup>1</sup>Pikstein Laboratory (NFP), Grand Canyon University, Phoenix, Arizona, <sup>2</sup>Section of Zoology and Botany, State Museum of Pennsylvania, Harrisburg, Pennsylvania.
- 10:45 am CONSERVATION ANALYSIS OF CHIHUAHUAAN GREEN TOADS, *ANAXYRUS DEBILIS*, IN WESTERN KANSAS.  
**Mackenzie Reh** (mgzielke@mail.fhsu.edu) and Dr. William Stark. Department of Biological Sciences Department, Fort Hays State University, Hays, Kansas.
- 11:00 am HISTORICAL CONTEXT AND PRELIMINARY HERPETOFAUNA SURVEYS ON FORT LEAVENWORTH MILITARY RESERVATION.  
**Nora K. Lazerus** (nklazerus@fhsu.edu), William J. Stark, and Jacob N. Alexander. Department of Biological Sciences, Fort Hays State University, Hays, Kansas.
- 11:15 am POND(ERING) NORTHERN WATERSNAKE, *NERODIA SIPEDON SIPEDON*, LONG-TERM DEMOGRAPHY IN A NORTHERN ALLEGHENY WETLAND MATRIX.  
<sup>1</sup>**Walter E. Meshaka, Jr.** (wmeshaka@pa.gov), <sup>2</sup>Daniel F. Hughes, and <sup>3</sup>Stanley E. Trauth. <sup>1</sup>Section of Zoology and Botany, State Museum of Pennsylvania, Harrisburg, Pennsylvania, <sup>2</sup>Department of Biology, Coe College, Cedar Rapids, Iowa, <sup>3</sup>Trauth Histo-herpetology Lab, Arkansas State University, Morrilton, Arkansas.

KHS GROUP PHOTOGRAPH  
(**Chan Kin Onn**, The University of Kansas)

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

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

- 1:00 pm ARE ALL ARTIFICIAL COVER OBJECTS EQUALLY EFFECTIVE IN REPTILE SURVEYS?  
**Greg Sievert** (gsievert@g.emporia.edu). Department of Biological Sciences, Emporia State University, Emporia, Kansas.
- 1:15 pm REVISITING A LEGACY DATA SET: VARIATION IN THE REPRODUCTIVE VALUE OF WESTERN RAT SNAKES, *PANTHEROPHIS OBSOLETUS*.  
<sup>1</sup>**J. Daren Riedle** (daren.riedle@ks.gov) and <sup>2</sup>George Pisani. <sup>1</sup>Kansas Department of Wildlife and Parks, Pratt, Kansas, <sup>2</sup>Kansas Biological Survey, Lawrence, Kansas.
- 1:30 pm A FIELD-BASED COMPARISON OF PIT TAGS AND PHOTO RECOGNITION.  
**Jacob Kearns** (jakearns@shockers.wichita.edu), Sydney Falcon, Megan Flanagan, and Thomas M. Luhring. Wichita State University, Wichita, Kansas.
- 1:45 pm USING FROG CALL SURVEYS TO ASSESS THE STATUS OF CRAWFISH FROGS (*LITHOBATES AREOLATUS*) IN OKLAHOMA.  
**Kaleb M. Banks** (kaleb.banks@okstate.edu), Owen M. Edwards, Bo Zhang, and Michael S. Reichert. Oklahoma State University, Stillwater, Oklahoma.

BREAK

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

- 2:15 pm (PRELIMINARY REPORT) SURVIVORSHIP AND SPATIAL USE OF HEADSTARTED TEXAS HORNED LIZARDS (*PHRYNOSOMA CORNUTUM*) SOFT-RELEASED AS ADULTS INTO AN URBAN POPULATION.  
**Forrest Nielsen** (forrest.nielsen@ou.edu). University of Oklahoma, Norman, Oklahoma.
- 2:25 pm SURVEY OF AMPHIBIANS AND REPTILES AT A RESTORED PRAIRIE ON THE CAMPUS OF MISSOURI WESTERN STATE UNIVERSITY.  
**Mark S. Mills** (mmills3@missouriwestern.edu), Destiny Christopher, Yu Kai Ng, Monet Phipps, and Zachary Hendrickson. Missouri Western State University, St. Joseph, Missouri.
- 2:35 pm GEOGRAPHIC VARIATION COMPLICATES THE IDENTIFICATION OF CHORUS FROGS NEAR RANGE BOUNDARIES.  
<sup>1,2</sup>**Taylor Michael** (taylormichael@ku.edu), <sup>2</sup>Christine Rega-Brodsky, and <sup>2</sup>Andrew George. <sup>1</sup>University of Kansas, Lawrence, Kansas; <sup>2</sup>Pittsburg State University, Pittsburg, Kansas.
- 2:45 pm TOASTY TESSELATA: THERMAL ECOLOGY OF THE CHECKERED WHIPTAIL IN THE CHIHUAHUAN DESERT.  
<sup>1</sup>**Spencer J. Duffendack** (sjd6884@truman.edu), <sup>2</sup>Océane Da Cunha, <sup>2</sup>Joshua J. Mead, <sup>2</sup>Ximena Larrieu, <sup>2</sup>Simon L. Terrazas, <sup>1</sup>Chad E. Montgomery, and <sup>2</sup>Jerry D. Johnson. <sup>1</sup>Truman State University, Biology Department, Kirksville, Missouri; <sup>2</sup>University of Texas at El Paso, El Paso, Texas.
- 2:55 pm HARD TOPICS: THE CHALLENGES OF STUDYING A NEAR-THREATENED (OR MAYBE UNDER-RESEARCHED?) TURTLE.  
<sup>1</sup>**Thomas M. Zapletal** (tz56s@missouristate.edu), <sup>1</sup>Larissa Saarel, <sup>1,2</sup>Donald T. McKnight, <sup>1</sup>Day B. Ligon. <sup>1</sup>Department of Biology, Missouri State University, Springfield, Missouri; <sup>2</sup>Belize Turtle Ecology Lab, Savanna Field Station, La Democracia, Belize District, Belize.
- 3:10 pm A TURTLE IN HAND MEANS MORE IN THE BUSH: CONSERVATION EDUCATION STRATEGIES.  
**Monica Macoubrie** (monica.macoubrie@nebraska.gov). Nebraska Game and Parks, Lincoln, Nebraska.

*KHS General Business Meeting*

KHS General Business Meeting, KHS President **Rafe Brown** presiding  
Introduction of KHS Officers & Committee Chairpersons  
KHS Treasurer's Report by **Dexter R. Mardis**  
KHS Secretary's Report by **Keith Geluso**  
KHS Editor's Report by **J. Daren Riedle**  
KHS Historian's Report by **Suzanne L. Collins**  
KHS Field Trip Report by **Travis W. Taggart**

Report on Plans for the 51st Annual KHS Meeting on the first weekend in November 2024  
by KHS President-Elect **Bill Stark**, Fort Hays State University, Hays, Kansas

*Election of KHS Officers for 2024*

**Lynnette Sievert** (Emporia, Kansas), the KHS Nominating Committee, offers the following slate of candidates:  
For President-Elect • **Kelly Kluthe**, Kansas City, Missouri and **Alexis Powell**, Emporia, Kansas  
For Treasurer • **Dexter R. Mardis**, Wichita, Kansas  
For Secretary • **Keith Geluso**, Kearney, Nebraska

Announcement of the results of the KHS election by KHS President **Rafe Brown**

DINNER ca. 5:00 to 6:00 pm

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

6:00 pm      *Oread Hotel*  
1200 Oread Avenue

6:30 pm      EVENING KEYNOTE

## *Uncovering the Evolutionary Drivers of Speciation in Chorus Frogs*

Emily Moriarty-Lemmon  
*Florida State University*



7:15 pm      KHS AWARDS CEREMONY

**Dan Fogell**, Chairman, KHS Awards Committee

**Bronze Salamander Award**

Exemplary long-term service to the KHS

**The Suzanne L. & Joseph T. Collins Award**

Best paper/presentation (even years) or photograph (odd years)

**The Suzanne L. & Larry L. Miller Grant for Kansas Public School Teachers**

To support teachers in Kansas public schools in acquiring hands-on experiences in herpetology

**The Curtis J. Schmidt Award**

Commitment to, and excellence in, public education and engagement

**Howard K. Gloyd-Edward H. Taylor Scholarship**

Educational scholarship

**Gann Scholarship for Women in Herpetology**

Educational scholarship

**Alan H. Kamb Grant for Research on Kansas Snakes**

Best research proposal on Kansas snakes

**Henry S. Fitch-Dwight R. Platt Award for Excellence in Field Herpetology**

Exemplary herpetological fieldwork in Kansas

**George Toland Award for Ecological Research on North American Herpetofauna**

Best research proposal on Kansas herp ecology (presented Sunday, prior to adjournment)

**Walter Meshaka Award for Excellence of North American Amphibian and Reptile Ecology**

Best poster presented at the KHS Annual Meeting (presented Sunday, prior to adjournment)

7:30 pm      KHS AUCTION

Auctioneers **Daniel D. Fogell**, **Walter E. Meshaka**, and **Rich Glor** will offer up many breathtaking 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*. The *KHS* will provide one beer ticket and light snacks.



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

- 9:00 am IMPACTS OF TEMPERATURE ON THE BITE FORCE OF *PLESTIODON OBSOLETUS*.  
**Andre Johnson** (ajohns83@g.emporia.edu). Department of Biology, Emporia State University, Emporia, Kansas.
- 9:15 am UNITING INDIGENOUS WISDOM AND SCIENTIFIC INQUIRY IN THE MERATUS MOUNTAINS.  
**Thornton Larson** (trl21jz@sulross.edu). Sul Ross State University, Alpine, Texas.
- 9:30 am COMPARATIVE POPULATION SIZE, STRUCTURE, AND SURVIVORSHIP OF TWO EASTERN MILKSNAKE, *LAMPROPELTIS TRIANGULUM*, POPULATIONS IN SOUTH-CENTRAL PENNSYLVANIA.  
**Emeleigh Luckenbaugh** (eluck0020@gmail.com), <sup>1</sup>Dr. Pablo R. Delis, and <sup>2</sup>Dr. Walter E. Meshaka, Jr. <sup>1</sup>Department of Biology, Shippensburg University, Shippensburg, Pennsylvania; <sup>2</sup>State Museum of Pennsylvania, Harrisburg, Pennsylvania.
- 9:45 am LATITUDINAL CLINES IN AN ECTOTHERMIC VERTEBRATE: COUNTERGRADIENT VARIATION IN BODY SIZE, GROWTH RATE, AND REPRODUCTIVE EFFORT IN THE PRAIRIE LIZARD, *SCELOPORUS CONSOBRINUS*.  
**Travis R. Robbins** (trobbins2@unomaha.edu). University of Nebraska Omaha, Omaha, Nebraska.
- 10:00 am POPULATION SURVEYS OF ALLIGATOR SNAPPING TURTLES IN OKLAHOMA.  
**Tessa N. Irvine** (tessairvine7@gmail.com), Kevin Babbitt, Derek Bateman, Alexander Edmond, and Day B. Ligon. Department of Biology, Missouri State University, Springfield, Missouri.
- 10:30 am LONG-TERM STUDY OF A SHIFTING HERPETOLOGICAL COMMUNITY AT LETTERKENNY ARMY DEPOT, SOUTH-CENTRAL PENNSYLVANIA.  
**Pablo R. Delis** (prdeli@ship.edu) and <sup>2</sup>Walter E. Meshaka, Jr. <sup>1</sup>Department of Biology, Shippensburg University, Shippensburg, Pennsylvania; <sup>2</sup>Section of Zoology and Botany, State Museum of Pennsylvania, Harrisburg, Pennsylvania.

**POSTER SESSION** - 10:45 to 11:30 am - *Burge Union*

**Scientific Paper Session V** - Moderator: **David Penning**, Missouri Southern State University, Joplin, Missouri

- 11:30 am EARLY INSIGHTS ON GEOGRAPHIC VARIATION AND DISTRIBUTION IN THE MONOCLED COBRA (*NAJA KAOUTHIA*).  
**Neil R. Balchan** (neil.balchan@okstate.edu) and Guinevere O. U. Wogan. Department of Integrative Biology, Oklahoma State University, Stillwater, Oklahoma.
- 11:45 am YOU CAN'T SEE ME: BACKGROUND MATCHING IN THE WESTERN DIAMOND-BACKED RATTLESNAKE (*CROTALUS ATROX*).  
**Océane Da Cunha** (odacunha@miners.utep.edu), Corentin Fournier, L. Miles Horne, and Jerry D. Johnson. Department of Biological Sciences, University of Texas at El Paso, El Paso, Texas.
- noon EXPLORING PERSONALITY VARIATION IN TURTLES: AN OPPORTUNITY FOR MANAGEMENT?  
**Daniel F. Hughes** (dhughes@coe.edu), <sup>1</sup>Kaylyn Hobelman, <sup>1</sup>Aubrey Gauntt, <sup>1</sup>Madison Schwenka, <sup>1</sup>Abigail Trautman, <sup>1</sup>Patience Wagner, <sup>1</sup>Samantha Kim, Chelsea Armstrong, <sup>1</sup>Sam Wagner, <sup>1</sup>Amelia Weller, <sup>1</sup>Katie Brighton, <sup>1</sup>Shelby Bloom, <sup>1</sup>Colin Nelson, <sup>1</sup>Farah Suboh, Cameron Kolthoff, <sup>1</sup>Sangai Dukuly, <sup>1</sup>Rodrigo Mercader, and <sup>2</sup>Benjamin M. Reed. <sup>1</sup>Department of Biology, Coe College, Cedar Rapids, Iowa; <sup>2</sup>Department of Biology, Washburn University, Topeka, Kansas.
- 12:15 pm PHYSIOLOGICAL AND MORPHOLOGICAL TRAITS AFFECT CONTEMPORARY RANGE EXPANSION AND IMPLICATIONS FOR SPECIES DISTRIBUTION MODELING IN AN AMPHIBIAN SPECIES.  
**Owen M. Edwards** (owedwar@okstate.edu), Michael Reichert, Lu Zhai, and Bo Zhang. Department of Integrative Biology, Oklahoma State University, Stillwater Oklahoma.
- 12:30 pm A MULTI-YEAR EXAMINATION OF THE REPRODUCTIVE ECOLOGY OF *TERRAPENE ORNATA* IN WESTERN NEBRASKA.  
**Keetan Munsell** (keetan.munsell@washburn.edu), Katie Brighton, Erica Guldner, and Benjamin Reed. Washburn University, Topeka, Kansas.

**PRESENTATION OF THE MESHAKA AND TOLAND AWARDS**

## KHS MEETING POSTER TITLES

*Effect of invasive plant species on the prevalence of Batrachochytrium dendrobatidis on salamanders in Ozark riparian areas.* **Keith Jones** (keith.jones@mcdonaldr1.net), Roman Goswick, Jonny Pollard, Emily Mann, Jesse Kinney, Makayla Miller, Alexis Ives, Alia Ramirez, Kara Montgomery, Aislinn Wilson, and Charidy Mckinzie. McDonald County High School, Anderson, Missouri.

*Herpetological natural history notes from southern Kansas: Engaging undergraduate in research.* <sup>1</sup>**Joe W. Paysen**, <sup>1</sup>Mackenzie J. Smith, <sup>2</sup>Carter Kruse, and <sup>1</sup>Keith Geluso (gelusok1@unk.edu). <sup>1</sup>Department of Biology, University of Nebraska at Kearney, Kearney, Nebraska; <sup>2</sup>Turner Institute of Ecoagriculture, Bozeman, Montana.

*It's turtles all the way down: Testing the effects of bait type, flotation color, and glowsticks on aquatic turtle capture rates.* **Gabriel McClain** (gmc-claing001@mymail.mssu.edu), David Penning, Brenna Jones, Addison Wallace, and Jerod Thomas. Department of Biological Sciences, Missouri Southern State University, Joplin, Missouri.

*Marking efficacy and stress involved in image recognition vs. PIT tagging in a field setting.* **Sydney Falcon** (safalcon@shockers.wichita.edu), Jacob Kearns, and Thomas Luhning. Department of Biological Sciences, Wichita State University, Wichita, Kansas.

*Cover-board sampling: The effect of cover object material and size on the number of individuals captured.* **Brenna Jones** (jonesb019@mymail.mssu.edu), David Penning, Gabe McClain, Andrew Shipley, Jerod Thomas, Addison Wallace, Saige Haddock, and Johnathan Evenson. Missouri Southern State University, Joplin, Missouri.

*A digital photography identification system for Crawfish Frog individuals.* **Kayleen Sugianto** (jksugian@okstate.edu), Kaleb Banks, Owen Edwards, and Michael Reichert. Oklahoma State University, Stillwater, Oklahoma.

*Assessing the impacts of wildlife crossings within median barriers of I-49 in McDonald County, Missouri.* **Johnathan Evenson**, Gabe McClain, Brenna Jones, and David Penning (penning-d@mssu.edu). Missouri Southern State University, Joplin, Missouri.

*Endozoochoric dispersal in Ornate Box Turtles (Terrapene ornata) from Iowa.* **Sangai Dukuly** (sndukuly21@coe.edu), Victoria Amandianeze, and Daniel Hughes. Department of Biology, Coe College, Cedar Rapids, Iowa.

*Count your blessings: A quantification of constriction mechanisms in snake diversity.* **Maya Greenquist** (mayagreenquist12@gmail.com), David Penning, Jillian Hackney, and Gabe McClain. Department of Biology and Environmental Health, Missouri Southern State University, Joplin, Missouri.

*Factors affecting thermoregulation in Ornate Box Turtles from Iowa.* <sup>1</sup>**Megan L. Norris** (mlnorris20@coe.edu), <sup>2</sup>Benjamin M. Reed, and <sup>1</sup>Daniel F. Hughes. <sup>1</sup>Department of Biology, Coe College, Cedar Rapids, Iowa; <sup>2</sup>Department of Biology, Washburn University, Topeka, Kansas.

*Take only vouchers, leave only footprints: "County Recording" clarifies distributions of Oklahoma herpetofauna.* <sup>1</sup>**Neil R. Balchan** (neil.balchan@okstate.edu), <sup>1</sup>Owen M. Edwards, <sup>1</sup>Kaleb M. Banks, and <sup>2</sup>Jesse J. Whitlock. <sup>1</sup>Department of Integrative Biology, Oklahoma State University, Stillwater, Oklahoma; <sup>2</sup>Department of Biology, University of Central Oklahoma, Edmond, Oklahoma.

*Adaptive response or plasticity? Assessing temperature tolerance in a widespread introduced gecko, Hemidactylus turcicus.* **Desi M. Joseph** (desi.wilson@okstate.edu), Samuel R. Wilson, and Guinevere O.U. Wogan. Integrative Biology Department, Oklahoma State University, Stillwater, Oklahoma.

*Want to eat a 50-pound cheeseburger? Using snakes in digestive physiology to understand diabetes.* **Isra Z Khan** (khani001@mymail.mssu.edu) and David A. Penning. Missouri Southern State University, Joplin, Missouri.

*Real Life Frogger: Assessing the impacts of wildlife crossings within median barriers of I-49 in McDonald County, Missouri.* **Johnathan Evenson**, Gabe McClain, Brenna Jones, and David Penning (davidapenning@gmail.com). Missouri Southern State University, Joplin, Missouri.

*Temporal integration of acoustic signals in male Cope's Gray Treefrogs.* **Kennedy Funa** (kennedy.funa@okstate.edu), Jain Krishnan, and Michael Riechert. Oklahoma State University, Stillwater, Oklahoma.

*Field and lab behavioral consistencies and mirror responses of Ornate Box Turtles (Terrapene ornata) in Nebraska.* **Brianna Wilson** (briannawilsonnn@gmail.com), Samantha Kim, Abigail Trautman, Katie Brighton, Erica Guldner, and Benjamin Reed. Washburn University, Topeka, Kansas.

*Responses of Prairie Turtle Assemblages to Droughts.* **Jacob Anderson** (jacobbrettanderson220@gmail.com), Thomas Luhning, David Bohorquez, Jacob Kearns, Sydney Falcon, and Shania Burkhead-Harris. Wichita State University, Wichita, Kansas.

*Examining factors that may affect the nesting order of Ornate Box Turtles (Terrapene ornata) in western Nebraska.* **Erica Guldner** (erica.guldner@washburn.edu), Katie Brighton, Keetan Munsell, Zoe Edlund, Samantha Kim, Timothy Speer, Abigail Trautman, Patience Wagner, Brianna Wilson, and Benjamin Reed. Washburn University, Topeka, Kansas.



*Behavior responses of Ornate Box Turtles (Terrapene ornata) to introduced goat grazing.* **Kaitlyn Scott** (kaitlyn.scott@washburn.edu), Layne Hodge, Kaylyn Hobelman, and Benjamin Reed. Washburn University, Topeka, Kansas.

*Testing the effectiveness of glowsticks for increasing amphibian captures.* **Cameron Koltzoff** (chkoltzoff20@coe.edu), Aubree L. Cota, Kennedy Frias, Marcos Villanueva, and Daniel F. Hughes. Coe College, Cedar Rapids, Iowa.

*Comparative analyses of microhabitat associations across populations in Terrapene ornata.* **Mark Lewis** (mark.lewis1@washburn.edu), Timothy Speer, Ruthline Pierre, Chris Schenk, Mogli Issa-Prout, TaRon Graham, Cheyenne Kearn, Katie Brighton, Zoe Edlund, Eric Guldner, Samantha Kim, Keetan Munsell, Abigail Trautman, Patience Wagner, and Brianna Wilson. Washburn University, Topeka, Kansas.

*Movement ecology of Ornate Box Turtles (Terrapene ornata) across different life stages in western Nebraska.* **Timothy Speer** (timothy.speer@washburn.edu), Katie Brighton, Zoe Edlund, Samantha Kim, Keetan Munsell, Abigail Trautman, Patience Wagner, Brianna Wilson, and Benjamin Reed. Washburn University, Topeka, Kansas.

*An agricultural pond turtle assemblage in south-central Pennsylvania: The last stand of the Chelonians?* **Grace Cocanower** (gc4314@ship.edu) and Pablo R. Delis. Department of Biology, Shippensburg University, Shippensburg, Pennsylvania.

*A Comparison of corticosterone levels across sex and age groups in Ornate Box Turtles (Terrapene ornata).* **Samantha Kim** (samantha.kim@washburn.edu), Susan Bjerke, John Mullican, and Benjamin Reed. Washburn University, Topeka, Kansas.

*Examining juvenile Ornate Box Turtle (Terrapene ornata) behavior types across populations.* **Mary Grace Tyler** (marygrace.tyler@washburn.edu), **Samantha O-Hara-Arrington**, Carolyn Wilson, Abigail Trautman, Katie Brighton, Samantha Kim, Erica Guldner, and Benjamin Reed. Washburn University, Topeka, Kansas.

*Relationship between resting metabolic rate (RMR) and calling behavior in Cope's Grey Treefrog (Hyla chrysoscelis).* **Phoebe Will** (phwill@okstate.edu) and Michael Reichert. Oklahoma State University, Stillwater, Oklahoma.

*Fire-induced mortalities of herpetofauna and other vertebrates in a grassland of northern Oklahoma.* <sup>1</sup>**Mackenzie J. Smith** (smithmackenziej@gmail.com), <sup>1</sup>Joseph W. Paysen, <sup>2</sup>Carter Kruse, and <sup>1</sup>Keith Geluso. <sup>1</sup>Department of Biology, University of Nebraska at Kearney, Kearney, Nebraska; <sup>2</sup>Turner Institute of Ecoagriculture, Bozeman, Montana.

*Protractor muscle diversity in reptiles and its significance for cranial kinesis.* <sup>1</sup>**Christopher Zobek** (czobek@gmail.com), <sup>2</sup>Conner D. Verhulst, <sup>3</sup>Anmol Sethi, <sup>1</sup>Alec Wilken, and <sup>1</sup>Casey M. Holliday. <sup>1</sup>Pathology and Anatomical Sciences, University of Missouri, Columbia, Missouri; <sup>2</sup>Kansas City School of Medicine, University of Missouri, Kansas City, Missouri; <sup>3</sup>Kansas City School of Dentistry, University of Missouri, Kansas City, Missouri; <sup>4</sup>Department of Organismal Biology and Anatomy, The University of Chicago, Chicago, Illinois.

*Impact of population on shell patterns of Ornate Box Turtles (Terrapene ornata).* **Carolyn Wilson** (carolyn.wilson@washburn.edu) and Benjamin Reed. Washburn University, Topeka, Kansas.

*Female responses to conspecific intra and inter-sexual playback signals in a Bornean frog.* **Johana Goyes Vallejos** (goyes.johana@gmail.com). University of Missouri, Columbia, Missouri.

*Rates of heating and cooling across latitudinally distributed Sceloporus consobrinus populations.* Brandon Wolfsohn (bwolfsohn@unomaha.edu), **Tiffany R. Hegdahl**, Benjamin D. Haussmann, and Travis R. Robbins. University of Nebraska at Omaha, Omaha, Nebraska.

*Life under the leaves: Activity patterns of Dwarf Geckos revealed by substrate-borne vibrations.* **Christian A. Perez-Martinez** (perez.christian.alessandro@gmail.com), Jack Ogilvy, Marissa LaMartina, and Manuel Leal; University of Missouri, Columbia, Missouri.

*Countergradient variation in metabolic rates associated with digestion in a Sceloporus lizard.* **Benjamin D. Haussmann** (bhaussmann@unomaha.edu), Brandon Wolfshon, Tiffany R. Hegdahl, and Travis R. Robbins. University of Nebraska at Omaha, Omaha, Nebraska.

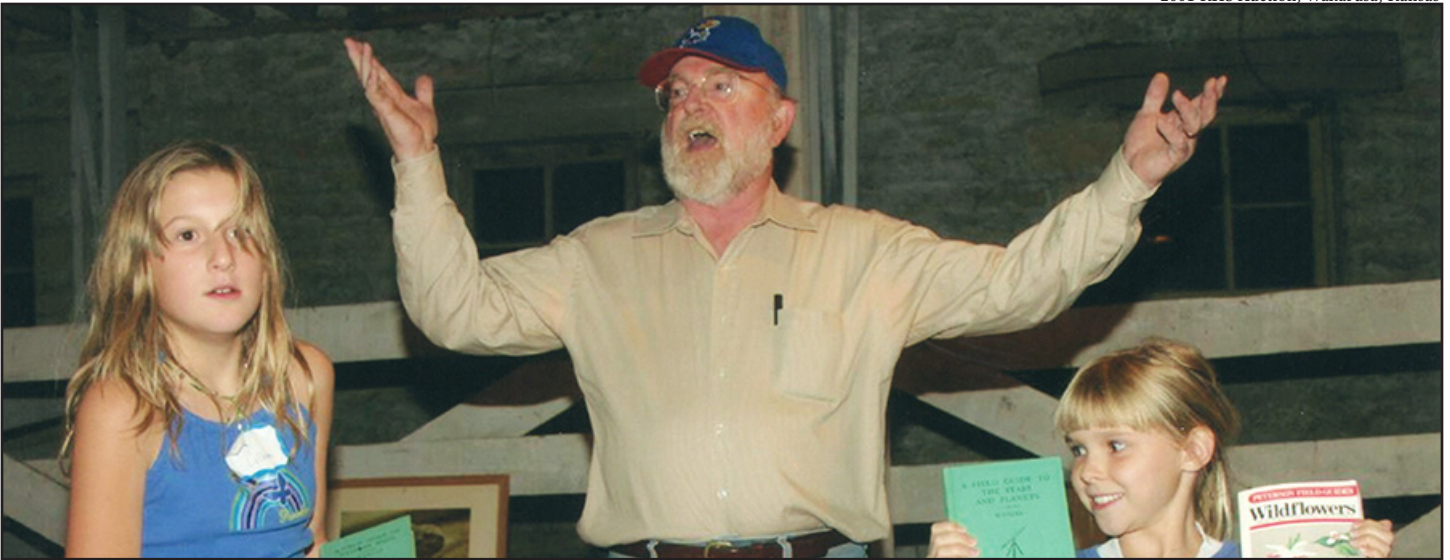
*The Bunker Resurvey Project: A century of environmental change in Kansas.* **Ana Motta** (apmotta@ku.edu) and Rafe Brown. Biodiversity Institute, The University of Kansas, Lawrence, Kansas.

*Looking under the hood: Using diceCT to characterize sensory structures in lizards.* **Marissa LaMartina** (marissalamartina@gmail.com), Christian Perez-Martinez, and Manuel Leal. University of Missouri, Columbia, Missouri.

*Using metal and plywood cover objects to assess snake and lizard habitat use within a 525-acre nature preserve in eastern Nebraska.* **Tracy J Coleman** (tracycoleman@unomaha.edu). Glacier Creek Preserve, University of Nebraska at Omaha, Omaha, Nebraska.

*Comparison of pull strength and latency to pull between two populations of Ornate Box Turtles.* Bryce Liedtke, **Abby Trautman**, Zach Davidson, **Jade Vopat**, Benjamin Reed, Tracy Wagner, and Paul Wagner (paul.wagner@washburn.edu). Washburn University, Topeka, Kansas.

*Life Underground: Elucidating the Metabolic Rates of Amphibaena schmidtii.* **Jack Ogilvy** (jaob86@mail.missouri.edu), Christian Perez, and Manuel Leal. University of Missouri, Columbia, Missouri.



Joe Collins arrived at KU in 1967 from Cincinnati, Ohio. Since Hobart M. Smith's second edition of his Handbook in 1956, no one in the state had focused on Kansas herpetology. Henry Fitch and a few of his students were doing ground-breaking research on individual species and whole local ecosystems in northeast Kansas, and a few state universities were contributing specimens to collections in conjunction with their herpetology courses. However, no one was putting this information together and directing future discovery.

In 1973, Joe was the impetus for forming the Kansas Herpetological Society, and in no small part why we're together this weekend. The organization of the KHS was concomitant with the release of Joe's 1974 *Amphibians and Reptiles in Kansas*. A pre-KHS planning committee was established, which in addition to Joe, included Stanley D. Roth, Al Kamb, Mary E. Dawson, Richard Plumlee, Phil Humphrey (then director of the KU Museum of Natural History), and Robert Sprackland. They brought their collective experience, vision, and direction, laying the foundation for the KHS as an academic and state-oriented society.

The first organizational meeting was at the KU Museum of Natural History on 18 May 1974. More than thirty persons attended, including Ray E. Ashton, Walter E. Boles, Cornell Chivila, Bob Clark, Robert F. Clarke, Joseph T. Collins, Mary E. Dawson, William E. Duellman, Theodore H. Eaton, Henry S. Fitch, Virginia R. Fitch, Tim Hicke, Dave Huyser, James W. Irwin, Kelly Irwin, Al Kamb, Richard Lattis, Julian C. Lee, David Lucas, Elizabeth O'Hara, Chris Parsons, Jan Perry, Dick Plumlee, Gareth Rowell, Eric Rundquist, Alan H. Savitzky, Barbara Savitzky, Kris Sperry, Christopher Starr, Edward H. Taylor, Mark Thiry, Richard Wassersug, and Bernard Willard.

Officers elected that meeting were:

<i>President</i>	Eric M. Rundquist	<i>Treasurer</i>	Mary E. Dawson
<i>President-elect</i>	George Pisani	<i>Secretary</i>	Richard Lattis

\*Joe was selected as the first *Editor* of the KHS publications the following week. At the time, the Editor was not a position on the Executive Council.

The KHS published its membership list on 15 October 1974 in the *Kansas Herpetological Society Newsletter* (3):6-7.  
The following are the inaugural members of the Kansas Herpetological Society:

Ray E. Ashton	Victor B. Eichler	Leslie Meredith	James M. Shields
Ron Beuchot	Henry S. Fitch	Kirk Mullen	Shelley Skie
Walter E. Boles	Virginia R. Fitch	William K. Mullen	Frank L. Slavens
David Bryant	Mike Gooch	Richard Lardie	Don Soderburg
Jan Caldwell	David Grow	Rick Opheim	Robert Sprackland
Cornell Chirila	Chris Hedquist	Chris Parsons	Kris Sperry
Terry Callender	Tim Hickok	Jan Perry	Christopher Starr
Bob Clark	Stephen Hoffman	Marjorie Perry	Eddie Stegall
Gary K. Clarke	David Huyser	George R. Pisani	Edward H. Taylor
Robert F. Clarke	James Irwin	Dwight R. Platt	Marc Thiry
Mike Coker	Kelly Irwin	Richard Plumlee	George F. Toland
Joseph T. Collins	Randall N. Johnson	Michael Plummer	Pennie von Achen
Bruce Dawson	Al Kamb	Rebecca Prosser	Marc Voiles
Mary E. Dawson	Richard Lattis	Stanley Roth	Bernard Willard
Joseph R. Dinardo	Eugene Leon	Gareth Rowell	Paul M. Willis
Fred Dulin	Charlotte Leviton	Eric M. Rundquist	Dennis W. Wilson
Theodore H. Eaton	David Lucas	Alan H. Savitzky	John Wortman
	Johnny Martinez	Terry D. Schwaner	





