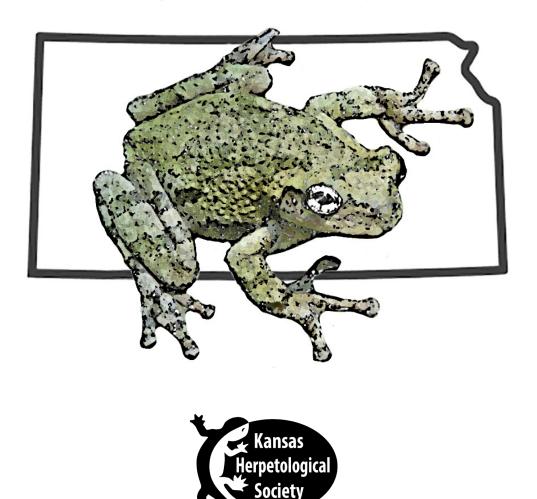
KANSAS HERPETOLOGICAL SOCIETY

48th Annual Meeting • 5-7 November 2021

Pittsburg State University, Kansas



ksherp.com

MASKS ARE TO BE WORN WHEN SOCIAL DISTANCING ISN'T POSSIBLE

Special thanks to the following sponsors:



PSU College of Arts and Sciences



Sperry Galligar Audubon Society



NAH Center for North American Herpetology



The Wildlife Society, PSU Student Chapter

Local Committee: Andrew George (Chairperson), Emma Buckardt, Christine Rega-Brodsky, Robin Oldham, and David Oldham.

A link to stream the meeting will be posted on the KHS meeting webpage

FRIDAY • 5 NOVEMBER 2021

- MIXER - HERP TRIVIA -

6:00 - 10:00 PM Overman Student Center, Ball Room C cash bar, free drink ticket, snacks

SATURDAY • 6 NOVEMBER 2021

- 8:00-9:00 am Registration: **Todd Volkmann** (KHS Secretary) and **Dexter Mardis** (KHS Treasurer) in the Overman Student Center. Drinks and donuts available. KHS masks will be given away to attendees until the supply is exhausted.
- 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 in Ball Room C. Posters are available all day. Presenters are asked to be at their poster between 1:00 and 2:30 PM Saturday.
- 9:00 am Welcome by **Dr. Mary Carol Pomatto**, Dean of the College of Arts & Sciences Pittsburg State University, Kansas. Opening Address by **Andrew George**, KHS President, Pittsburg State University, Kansas.

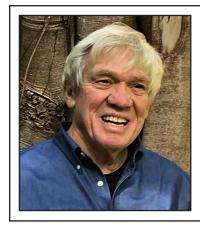
Scientific Paper Session 1 - Moderator: Daren Riedle, Kansas Department of Wildlife and Parks

9:15 am SIRENS CHANGED THEIR RELATIONSHIP WITH DROUGHTS TO "IT'S COMPLICATED." **Thomas M. Luhring**^{1,2}, Lyndsie S. Wszola³, Grant M. Connette^{4,5}, Christopher M. Schalk^{2,6}; ¹Biological Sciences, Wichita State University, Kansas, ²Savannah River Ecology Laboratory, University of Georgia, Athens, ³Biological Sciences, University of Nebraska, Lincoln, ⁴Working Land and Seascapes, Conservation Commons, Smithsonian Institution, Washington, DC, ⁵Smithsonian Conservation Biology Institute, Front Royal, Virginia, ⁶Arthur Temple College of Forestry and Agriculture, Stephen F. Austin University, Nacogdoches, Texas.

- 9:30 am *GENETIC EVALUATION OF SOUTH TEXAS* SIREN. Jessica Heckman, Peter Scott, and Richard Kazmaier; West Texas A&M University, Canyon.
- 9:45 am *GENETIC AFFINITIES OF POPULATIONS OF THE MUDPUPPY* (NECTURUS MACULOSUS) *IN KANSAS.* Alexis F. L. A. Powell and Jiayu Xu; Department of Biological Sciences, Emporia State University, Kansas.
- 10:00 amGREAT PLAINS RAPTORS LACK PROTEOLYTIC RESISTANCE TO PRAIRIE RATTLESNAKE VENOM.
Neil R. Balchan and Stephen P. Mackessy; University of Northern Colorado, Greeley.

BREAK 10:15 to 10:30 AM - Posters

Introduction of the KHS Keynote Speaker: Thomas Luhring, Wichita State University, Kansas



10:30 am KEYNOTE ADDRESS:

What Does a Retired Herpetologist Do? Besides Continuing to have Adventures with Reptiles and Amphibians

Dr. Whit Gibbons

Savannah River Ecology Laboratory, University of Georgia, Athens

11:30 am KHS Group Photograph (Larry L. Miller, Kansas Heritage Photography)

POSTER SESSION - 1:00 to 2:30 PM - BALL ROOM C

	Scientific Paper Session 2 - Moderator: Alexis Powell, Emporia State University
2:30 pm	STRENGTH IN NUMBERS: INSIGHTS FROM BODY TEMPERATURE IN FIVE WESTERN DIAMOND-BACKED RAT- TLESNAKES.
	Joshua J. Mead, Vicente Mata-Silva and Jerry D. Johnson; Department of Biological Sciences, The University of Texas at El Paso.
2:45 pm	INTRASEXUAL SELECTION DRIVES SEXUAL DIMORPHISM IN THE SKULL IN MALES OF CLOSELY RELATED SPECIES WITHIN THE LIMNONECTES KUHLII COMPLEX.
	Thornton R. Larson ¹ , Pranchiti B. Kiny ¹ , Justin L. Jacobs ¹ , Amir Hamidy ² , Nia Kurniawan ³ , and Eric N. Smith ¹ ; ¹ University of Texas at Arlington; ² Museum Zoologicum Bogoriense, Research Center for Biology, Indonesian Institute of Sciences, Bogar, Indonesia; ³ Brawijaya University, Malang, Indonesia.
3:00 pm	<i>RESURVEYS REVEAL AMPHIBIAN SUCCESSION IN AN EASTERN US FOREST RESERVE.</i> Daniel F. Hughes ¹ , Amanda K. Martin ² , and Jennifer A. Sheridan ² ; ¹ Department of Biology, Coe College, Cedar Rapids, Iowa; ² Section of Amphibians and Reptiles, Carnegie Museum of Natural History, Avenue, Pittsburgh, Pennsylvania.
3:15 pm	BREEDING HABITS AND WATER QUALITY OF THE STATE ENDANGERED BLUE SPOTTED SALAMANDER. Hadley Copeland, Harlo Hadow, and Martin St Clair; Department of Biology & Department of Chemistry, Coe College, Cedar Rapids, Iowa.
3:30 pm	<i>TURTLE RACES: A CONSERVATION THREAT TO NORTH AMERICAN AND KANSAS TURTLES?</i> Alex Heeb , Christine Light, Will Hanson-Regan ¹ , Gina Buelow, Taylor Blazi, Madeleine Smith, Ellie Houchin, Cailin Gal- lagher ² , Ellen "Liv" Jones DVM, Chelsie Creps, Valerie Vester, Dan Carpenter, Bruce Wolhuter, Aaron Ellison, Dan Whit- ney, Jacqui Gibson, Becky Lister, Laura Priest, Thaniel Bentz, and Carol Becker; ¹ University of Tennessee, Chattanooga, ² University of Michigan, Flint.
3:45 pm	<i>DON'T BE FOOLED BY "LOOK-ALIKES"</i> Greg Sievert and Lynnette Sievert; Emporia, Kansas
	Gregorevert and Lymetic of vert, Emporia, Ransas
Г	KHS General Business Meeting
4:00 pm	KHS General Business Meeting, KHS President Andrew George presiding
	Introduction of KHS Officers & Committee Chairpersons KHS Treasurer's Report by Dexter Mardis
	KHS Secretary's Report by Todd Volkmann
	KHS Editor's Report by Darren Riedle KHS Historian's Report by Suzanne L. Collins
	KHS Field Trip Report by Travis W. Taggart
	KDWP Liaison Report - Darren Riedle
	Report on Plans for the 49th Annual KHS Meeting on the first weekend in November 2022 by KHS President-Elect David Penning , Missouri Southern University, Joplin, Missouri
	Election of KHS Officers for 2022
	Lynnette Sievert (ESU, Kansas), the KHS Nominating Committee, offers the following slate of candidates: For President-Elect • Rafe Brown , Lawrence, KS
	For Treasurer • Dexter Mardis, Wichita, KS
	For Secretary • Todd Volkmann, Wichita, KS
	Announcement of the results of the KHS election by KHS President Andrew George

SATURDAY EVENING • 6 NOVEMBER 2015

The Lodge Event Center,

2312 W 4th St, Pittsburg, KS 66762

6:30 PM - KHS Awards Ceremony

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

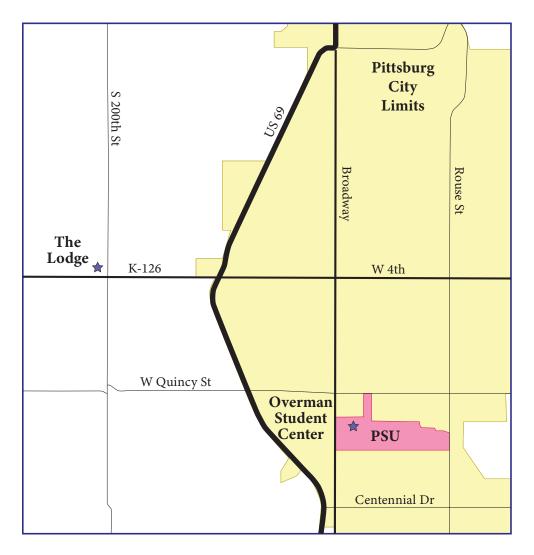
- 7:00 PM - KHS Auction -

KHS Auctioneers **Daniel D. Fogell** and **Christopher Visser** will offer up many breath-taking 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*. Light food/hors d'oeuvres will be provided

SUNDAY • 7 NOVEMBER 2021

8:00-9:00 am	Registration for participants that did not register on Saturday: Todd Volkmann (KHS Secretary) and Dexter Mardis (KHS Treasurer). Drinks and donuts available.
	Scientific Paper Session 3 - Moderator: Bill Stark, Fort Hays State University, Hays, Kansas
9:00 am	ANURAN OCCUPANCY PATTERNS ON MINED LANDS. Emma M. Buckardt, Christine C. Rega-Brodsky, and Andrew D. George; Pittsburg State University, Kansas.
9:15 am	<i>PROPOSED SURVEY OF THE CHIHUAHUAN GREEN TOAD</i> , ANAXYRUS DEBILIS, <i>IN KANSAS</i> . Mackenzie Zielke and Dr. William J. Stark; Fort Hays State University, Department of Biological Sciences, Hays, Kansas.
9:30 am	A PRELIMINARY SURVEY OF ANAXYRUS PUNCTATUS IN BARBER AND COMANCHE COUNTIES, KANSAS. Elisabeth Russell and Dr. William Stark; Fort Hays State University, Department of Biological Sciences, Hays, Kansas.
9:45 am	NON-LETHAL MOLECULAR METHODS TO DETERMINE THE CONTEMPORARY DISTRIBUTION OF GRAY TREEFROG COMPLEX IN KANSAS. Nora Lazerus and Dr. William Stark; Fort Hays State University, Department of Biological Sciences, Hays, Kansas.
10:00 am	DEVELOPMENT OF A PROGRAMMATIC CONSERVATION AGREEMENT FOR AQUATIC SPECIES IN KANSAS. J. Daren Riedle, Mark VanScoyoc, and Chris Berens; Kansas Department of Wildlife and Parks, Pratt.
	BREAK 10:15 to 10:30 PM
	Scientific Paper Session 4 - Moderator: Christopher Visser, Nebraska Nature Service, Lincoln
10:30 am	EXAMINATION OF BEHAVIORAL SYNDROMES ACROSS MULTIPLE POPULATIONS REVEAL SUPPORT FOR ADAPTIVE HYPOTHESIS OVER THE CONSTRAINT HYPOTHESIS IN ORNATE BOX TURTLES (TERRAPENE ORNATA). Benjamin Reed; Washburn University, Topeka, Kansas.
10:45 am	SOURCES AND SINKS IN A TURTLE METAPOPULATION: RECOLONIZATION OF URBAN PONDS AFTER DRY-
10.15 dill	<i>ING EVENTS.</i> Mark S. Mills , Christine Bell, Jessica Poush, and Kyle Richardson; Missouri Western State University, St. Joseph.
11:00 am	POPULATION SURVEYS AND REWILDING THE CRITICALLY ENDANGERED HICATEE IN BELIZE. Day B. Ligon ¹ , Donald T. McKnight, Thomas Pop, Jaren Serano, and Denise M. Thompson; ¹ Department of Biology, Missouri State University; ² College of Science and Engineering, James Cook University, Australia; ³ Belize Foundation for Research and Environmental Education; ⁴ Department of Wildlife Ecology and Conservation, University of Flori- da, Gainesville.
11:15 am	CONSTRICTING SNAKES USE BIG BRAIN ENERGY TO KILL THEIR PREY. David Penning and Jillian Hackney; Missouri Southern State University, Joplin.
	Presentation of the George Toland Award by KHS Awards Chair. Daniel D. Fogell

KHS MEETING VENUES AND NEARBY RESTAURANTS



Chatters 2401 S Rouse St B

The Mall Deli 202 Centennial Dr - In Meadowbrook Mall

Sakera 1618 S Broadway St - In Plaza Shopping Center

Guadalajara Mexican Grill 1620 S Broadway St - In Plaza Shopping Center **Pichler's Chicken Annie's** 1271 S 220th St

> **The Pitt** 516 N Broadway

Mandy's Place 206 S Broadway St

Drop the H Brewing Company 107 E Rose St

TOAST 401 N Broadway suite d (vegan options)

Guests can park in any blue or brown lots that aren't taped off. Joplin St and Cleveland Ave should be available.

KHS MEETING POSTER TITLES

The Meshaka Award for the best Poster will be awarded prior to the Saturday evening auction. Abstracts available here: http://ksherp.com/khs-submitted-titles/

- Land Use and Burn Regime Effects on Snake Presence and Abundance in a Restored Prairie Ecosystem. Krista J. Ward, Dexter R. Mardis, and Thomas M. Luhring; Department of Biological Sciences, Wichita State University, Wichita, Kansas.
- Linking Space Use to Behavioral Syndromes in the Ornate Box Turtle (Terrapene ornata) in Eastern Iowa. Farah Suboh¹, Aubrey Gauntt², Benjamin Reed², and Daniel F. Hughes¹; ¹Department of Biology, Coe College, Cedar Rapids, Iowa; ²Department of Biology, Washburn University, Topeka, Kansas.
- Preliminary Assessment of the Aquatic Turtle Community and Effects of Trap Size at an Urban Lake in Eastern Iowa. Lauren Velezand Daniel F. Hughes; Department of Biology, Coe College, Cedar Rapids, Iowa.
- Geographic Variation Complicates Identification of Chorus Frogs Near Range Boundaries. Taylor Michael, Luke Headings, Christine Rega-Brodsky, and Andrew George; Pittsburg State University, Pittsburg, Kansas
- The Effect of Predators on Temperature Regulation in a Lizard. Calvin Vick and Dr. Matthew E. Gifford; University of Central Arkansas, Conway, Arkansas
- Herpetofauna of Wichita State University Field Station. Samantha M. Skerlec, Dexter R. Mardis, and Thomas M. Luhring; Wichita State University, Wichita, Kansas
- Continued Assessment of the Aquatic Turtle Community at the Sternberg Natural Area. Jacob N. Alexander, Curtis J. Schmidt, Morgan A. Noland, and Mitchell J. Greer; Department of Biological Sciences, Fort Hays State University, Hays, Kansas
- On the Distribution of the Queensnake, Regina septemvittata (Say, 1825), in the Middle Fox River Drainage, Illinois, USA. Nathan J. Kutok, Joseph T. Cavataio, and Tristan D. Schramer; Southern Illinois University at Carbondale; West Chicago Environmental Commission; Clemson University
- A Tale of Two Counties: The Impact of Long-term Monitoring Efforts. Thomas Zapletal, Kelsea Tyson, Lexis Mader, Jeremiah Cline, Alyssa Farney, Loegan Hill, Jainee Cowen, Camron Matteson, and David Penning; Missouri Southern State University, Joplin, Missouri
- Methods Check on A Rare and Powerful Opportunity to Study the Biodiversity of a Native Remnant Prairie in SW Missouri. Alyssa Owens and David Penning; Missouri Southern State University, Joplin, Missouri
- A Newly Discovered Eastern Newt Population on Abandoned Mined Land in Southeast Kansas. Gizelle L. Sisson, Emma M. Buckardt, Christine C. Rega-Brodsky, and Andrew D. George; Pittsburg State University, Pittsburg, Kansas
- Comparison of Flesh Fly (Cistudinomyia cistudinis) Prevalence Throughout Midwest Populations of Ornate Box Turtles (Terrapene ornata). Aubrey Gauntt, Joshua Smith, and Benjamin Reed; Washburn University, Topeka, Kansas
- Do Texas Horned Lizards Exhibit Microhabitat Selection? Jessica Heckman and Richard Kazmaier; West Texas A&M University, Canyon, Texas
- Ornate Box Turtle (Terrapene ornata) Identification Via Pattern Recognition. Mason Chanay and Benjamin Reed; Washburn University, Topeka, Kansas
- The Relationship Between Behavioral Syndromes and Philopatry in Ornate Box Turtles (Terrapene ornata). Samantha Kim, Patience Wagner, Mason Chanay, Sam Wagner, Aubrey Gauntt, and Benjamin Reed; Washburn University, Topeka, Kansas
- Demographics and Movement Ecology of the Ornate Box Turtle (Terrapene ornata) in Eastern Kansas. Anthony Hoad, Kalyn Hobelman, and Benjamin Reed; Washburn University, Topeka, Kansas
- Day-to-day and Year-to-year Consistency in Ornate Box Turtle (Terrapene ornata) Behavior Types. Chelsea Armstrong, Aubrey Gauntt, Sam Wagner, Patience Wagner, Samantha Kim, Kaylyn Hobelman, Shelby Bloom, Amelia Weller, Colin Nelson, and Benjamin Reed; Department of Biology & Department of Chemistry, Coe College, Cedar Rapids, Iowa.
- Population and Habitat Assessments of the Hicatee (Dermatemys mawii). Anthony J. Grate¹, Denise M. Thompson¹, Donald T. McKnight², Ethan C. Hollender³, and Day B. Ligon¹; ¹Department of Biology, Missouri State University, Springfield, Missouri. ²College of Science and Engineering, James Cook University, Australia. ³Department of Biological Sciences, University of Arkansas, Fayetteville, Arkansas.