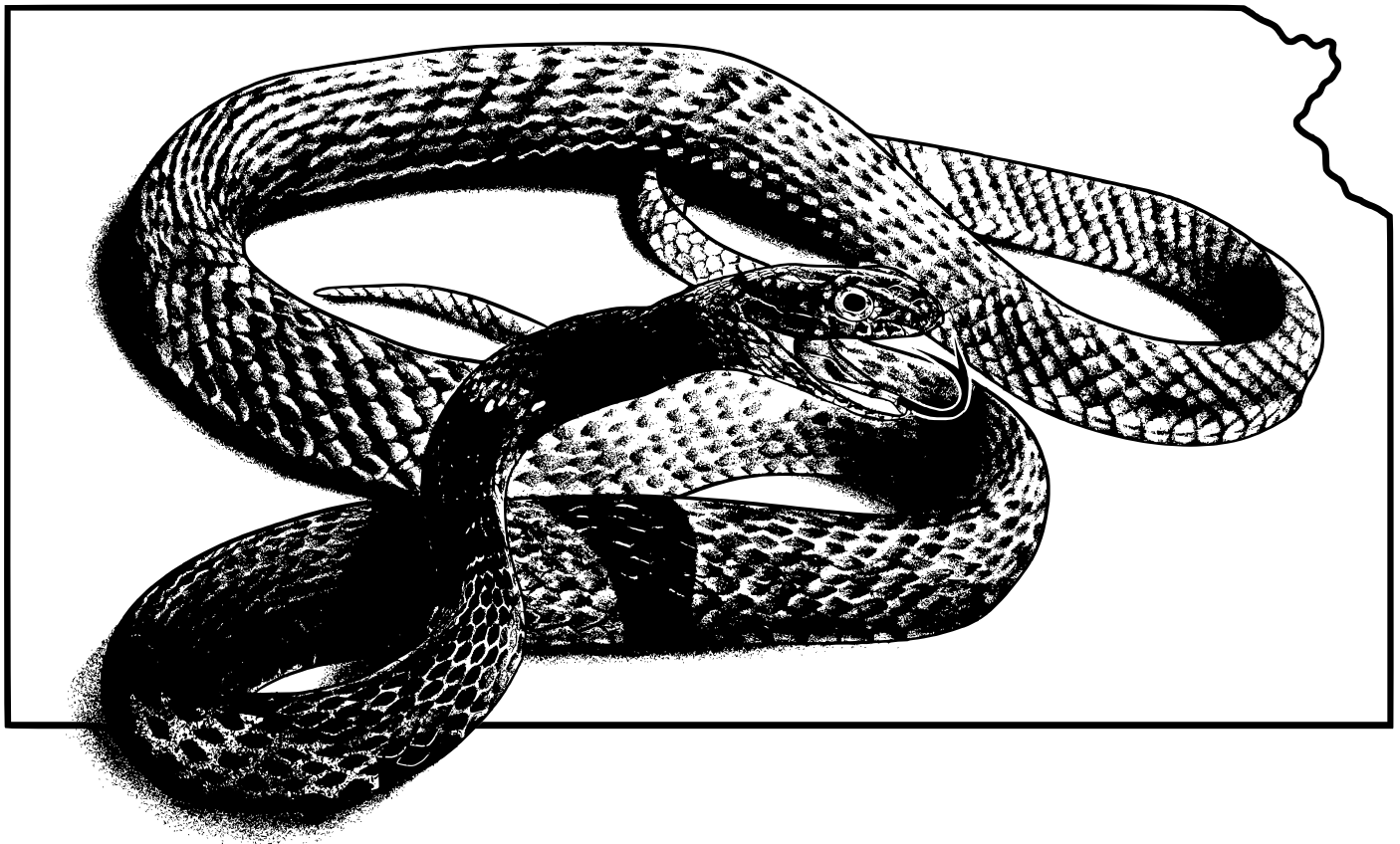


KANSAS HERPETOLOGICAL SOCIETY

52nd Annual Meeting
7—9 November 2025

Manhattan, Kansas



ksherp.com

Local Committee: Kelly Kluthe (Chair) and Dexter Mardis.

DOUBLETREE BALLROOM, 530 RICHARDS DRIVE, MANHATTAN, KANSAS

FRIDAY • 7 NOVEMBER 2025

6:30—8:00 PM

Poster Session I - Conference Rooms 2 & 3

8:00—10:00 PM

Social

SATURDAY • 8 NOVEMBER 2025

7:30—8:30 AM Registration: **Keith Geluso** (KHS Secretary) and **Dexter Mardis** (KHS Treasurer). Drinks and pastries available.

8:30 AM Opening Address by **Kelly Kluthe**, KHS President, University of Kansas Medical Center, Kansas City.

Scientific Paper Session 1 - Moderator: **Walter Meshaka**, State Museum of Pennsylvania, Harrisburg

8:45 AM NATIONAL PARC – 2025 AND BEYOND.
Melissa Youngquist - Shedd Aquarium, Chicago, Illinois

9:00 AM RESEARCH-BASED HERPING: “HOW TO BE ETHICAL & FIND MORE HERPS”.^{-F}
Jordan Schmitt - United States Air Force, Whiteman Air Force Base, Knob Noster, Missouri

9:15 AM LIZARD MOUTH MAGGOTS.
Richard E. Glor - University of Kansas, Lawrence

9:30 AM HERPS IN THE SPOTLIGHT: REPTILE MONTH, HIKES, AND A CAPITOL SHOWCASE.^{-F}
Monica Macoubrie - Nebraska Game and Parks Commission, Lincoln

9:45 AM ARE YOU BOARD YET? HOW LAND MANAGEMENT AFFECTS SNAKE POPULATIONS IN A RESTORED PRAIRIE.^{-F,T}
Brett Riffel, Jerod B. Thomas, and Tom Luhring - Wichita State University, Kansas

BREAK - 10:00 to 10:15 AM

Scientific Paper Session 2 - Moderator: **David Penning**, Missouri Southern State University, Joplin

10:15 AM GENETIC STRUCTURE OF AN INTRODUCED WESTERN DIAMOND-BACKED RATTLESNAKE POPULATION.^{-F,T}
Jackson Roberts¹, Travis W. Taggart¹, Edward Myers², Rafe Brown³, Anna Motta³, Mark Herr³, Jeff Weinell^{3,4}, Chan Kinn Onn^{3,5}, Stacy Pirro⁶, and Wendy Bowles⁷ - ¹Sternberg Museum of Natural History, Hays, Kansas; ²California Academy of Sciences, San Francisco; ³KU Biodiversity Institute, Lawrence; ⁴Austin Peay State University, Clarksville, Tennessee; ⁵Michigan State University, East Lansing; ⁶Iridian Genomes Inc., Bethesda, Maryland; ⁷Kansas Department of Wildlife and Parks, Kanopolis

10:30 AM EXAMINING GENETIC DIVERSITY AND POTENTIAL CRYPTIC DIVERSITY WITHIN THE GEORGIA BLIND SALAMANDER (*EURYCEA WALLACEI*) AND THE DOUGHERTY PLAIN CAVE CRAYFISH (*CAMBARUS CRYPTODYTES*) OF THE UPPER FLORIDAN AQUIFER.^{-F,T}
Jacob Schaefer¹, Eric Maxwell¹, Teddy Garlock², Dante B. Fenolio³, and Matthew L. Niemiller¹ - ¹University of Alabama, Huntsville; ²Karst Underwater Research, Gainesville, Florida; ³San Antonio Zoo, Texas

10:45 AM DISTRIBUTIONS OF THE TRUE COBRAS IN VIETNAM: NEW EVIDENCE FROM MORPHOLOGY AND MITOCHONDRIAL SEQUENCES.
Neil R. Balchan - Department of Biology, Oklahoma State University, Stillwater

11:00 AM REASSESSING POPULATION VIABILITY OF AN ISOLATED EASTERN MASSASAUGA RATTLESNAKE POPULATION IN LIGHT OF INBREEDING CONCERNS.^{-F,T}
Matthew J Klein¹, Lisa J. Faust², and Eric T. Hileman¹ - ¹West Virginia University, Morgantown; ²Alexander Center for Applied Population Biology at Lincoln Park Zoo, Chicago, Illinois

11:15 AM AN OVERVIEW OF HERPETOFAUNA SURVEYS AT FORT LEAVENWORTH MILITARY RESERVE.^{-C,F,T}
Zane Smith, Sandra Guzman, and Bill Stark - Fort Hays State University, Hays, Kansas

AWARD ELIGIBILITY: Collins Award (C; 2026), Ferraro Award (F), Toland Award (T)

11:30 AM

BEHAVIORAL DIVERGENCE DURING THE RANGE EXPANSION OF THE GREEN TREEFROG (*HYLA CINEREA*).^{-F}
Owen M. Edwards¹, Kaleb M. Banks², Bo Zhang², and Michael S. Reichert² - ¹University of Oklahoma, Oklahoma Biological Survey, Norman; ²Oklahoma State University, Department of Biology, Stillwater

11:45 AM

KHS Group Photograph

BREAK/LUNCH - 11:45 to 1:15 PM

Scientific Paper Session 3 - Moderator: **Bill Stark**, Fort Hays State University, Kansas

1:15 PM

DO PHYSIOGRAPHIC REGIONS PREDICT AMPHIBIAN AND REPTILE COMMUNITIES IN KANSAS? ^{-C, E, T}
Hayden W. Cannon¹, Faben Tesfazion¹, Kier Mitchel E. Pitogo¹, and Ana Motta² - ¹Department of Ecology & Evolutionary Biology & Biodiversity Institute, University of Kansas, Lawrence; ²Biodiversity Institute & Natural History Museum, University of Kansas, Lawrence

1:30 PM

FASHIONABLY LATE TO THE PARTY: EFFECTS OF VARIED PRECIPITATION TIMING ON AMPHIBIAN FITNESS AND ECOSYSTEM RECOVERY. ^{-E, T}
Parker L. Binns¹, Molly G. Russell¹, Shania E.M. Burkhead-Harris¹, Clay Prater², and Thomas M. Luhring¹ - ¹Wichita State University, Kansas; ²University of Arkansas, Fayetteville

1:45 PM

ELEMENTS OF GROWTH: THE INFLUENCE OF THERMAL REGIMES ON TADPOLE DEVELOPMENT, SIZE, AND IONOME ACROSS ONTOGENY. ^{-E, T}
Molly G. Russell¹, Parker L. Binns¹, Shania E.M. Burkhead-Harris¹, Clay Prater², and Thomas M. Luhring¹ - ¹Wichita State University, Kansas; ²University of Arkansas, Fayetteville

2:00 PM

ECOTOURISM AND LONG-TERM MONITORING OF AMPHIBIANS AND REPTILES ON THE DRakensberg PLATEAU, SOUTH AFRICA.
J. Daren Riedle¹ and Willem Koch² - ¹Stafford Middle School/High School, Kansas; ²Potberg Conservation Area, Memel, South Africa

2:15 PM

PYGGING OUT: WHAT DOES THE WORLD'S SMALLEST RATTLESNAKE EAT? ^{-E, T}
Jesse Whitlock - Rose State College, Midwest City, Oklahoma

2:30 PM

VISUAL ACUITY OF *TERRAPENE ORNATA* ACROSS POPULATIONS. ^{-C, E, T}
August Weishaar-Wilson and Ben Reed - Washburn University, Topeka, Kansas

BREAK - 2:45 to 3:00 PM

3:00—4:30 PM

Poster Session II - Conference Rooms 2 & 3

DINNER 4:30 to 6:00 PM

6:00 PM

KHS SOCIAL, AWARDS, KEYNOTE, AND AUCTION

- AWARDS CEREMONY

Daniel D. Fogell, KHS Awards Committee Chair, Southeast Community College, Lincoln, Nebraska

KEYNOTE



THE OUTCOMES OF RAMPANT HYBRIDIZATION IN NORTH AMERICAN REPTILES AND AMPHIBIANS

EDWARD A. MYERS

Research Scientist @ California Academy of Sciences, San Francisco

KHS AUCTION

KHS Auctioneers, **Sydney Falcon**, **Shania Burkhead-Harris**, **Eva Norton**, **Tom Luhring**, and **Rich Glor** will offer up items. The KHS takes cash, credit cards, and checks. Light food/hors d'oeuvres will be provided.

SUNDAY • 9 NOVEMBER 2025

Scientific Paper Session 4 - Moderator: **Andrew George**, Pittsburg State University, Kansas

- 8:00 AM THE KILLER OF KILLERS: THE INSANE DIET AND FEEDING BEHAVIORS OF THE *DRYMARCHON* GENUS. ^{-E,T}
David Penning - Missouri Southern State University, Joplin
- 8:15 AM LANDSCAPE USAGE OF YELLOW MUD TURTLES IN SOUTHWESTERN NEBRASKA. ^{-E,T}
Megan Soldatke - University of Nebraska, Lincoln
- 8:30 AM THE EFFECTS OF SUPPLEMENTAL FEEDING ON THE MOVEMENT ECOLOGY OF ORNATE BOX TURTLES (*TERRAPENE ORNATA*). ^{-C,E,T}
Peyton Samek, Erin Carter, Sage Dennis, Jadyn Falley, Caroline Lejuerrrne, Bella Limback, Fritz Menninger, Grace Peterson, Brookelynn Powell, Ash Van Dalsem, August Weishaar-Wilson, and Benjamin Reed - Washburn University, Topeka, Kansas
- 8:45 AM WEATHERING THE WATERS: THE EFFECT OF LONG- AND SHORT-TERM WEATHER VARIABLES ON WESTERN PAINTED TURTLE CAPTURES IN MARSHALL COUNTY, SOUTH DAKOTA). ^{-E,T}
Amy Dolan¹, Heather Waye², Peter Dolan², and Michael Grebner¹ - ¹Northern State University, Aberdeen, South Dakota; ²University of Minnesota, Morris
- 9:00 AM MARK-RECAPTURE OF WESTERN PAINTED TURTLES IN EASTERN SOUTH DAKOTA – TECHNIQUES AND GOALS. ^{-E,T}
Heather Waye¹, Amy Dolan², and Peter Dolan¹ - ¹University of Minnesota, Morris; ²Northern State University, Aberdeen, South Dakota
- 9:15 AM BODY COMPOSITION OF FREE-RANGING WILD AND HEAD-STARTED JUVENILE ALLIGATOR SNAPPING TURTLES (*MACROCHELYS TEMMINCKII*). ^{-E,T}
Derek L. Bateman, Kevin B. Babbitt, Riley L. Austin, and Day B. Ligon - Missouri State University, Springfield
- 9:30 AM THE SNAP THAT SMILES BACK: A STUDY OF *CHELYDRA SERPENTINA* BITE PERFORMANCE. ^{-E,T}
Gavin Payne, Donnie Flowers, Kobi Pearson, and David Penning - Missouri Southern State University, Joplin

BREAK - 9:45 to 10:00 AM

Scientific Paper Session 5 - Moderator: **Jackson Roberts**, Sternberg Museum of Natural History, Hays, Kansas

- 10:00 AM GHOSTS OF THE ARKANSAS – THE HISTORY OF *NECTURUS LOUISIANENSIS* IN OKLAHOMA AND THEIR FUTURE. ^{-E,T}
Landen Shockley - Tulsa Community College, Oklahoma
- 10:15 AM A SURFEIT OF *SIREN*. ^{-E,T}
Thomas Luhring^{1,2}, David Stewart³, and Christopher Schalk^{2,4} - ¹Wichita State University, Kansas; ²Savannah River Ecology Laboratory, University of Georgia, Aiken, South Carolina; ³US Fish and Wildlife Service, Albuquerque, New Mexico; ⁴US Forest Service, Nacogdoches, Texas
- 10:30 AM THE FUNGI AMONG US: SWABBING FOR CHYTRID IN TRUE FROGS (FAMILY RANIDAE). ^{-E,T}
Kerri Beers¹, Jennifer Y. Lamb¹, Megan Winzeler², Dan Grear², and Amy Kinsley³ - ¹St. Cloud State University, Minnesota; ²United States Geological Survey (USGS), Madison, Wisconsin; ³University of Minnesota Twin Cities, Minneapolis
- 10:45 AM DO I STINK? TESTING DEFENSIVE POSTURE AND MUSKING ON PREDATION RATES IN *DIADOPHIS PUNCTATUS*. ^{-E,T}
Kobi Pearson, Grace Shriever, Addison Wallace, and Brenna Jones - Missouri Southern State University, Joplin
- 11:00 AM SNAKE COLLECTING ACROSS THE ISLANDS OF SOUTH KOREA – OBSERVATIONS AND ADVENTURES.
Yucheol Shin - Richard Gilder Graduate School and the Department of Herpetology, American Museum of Natural History, New York, New York
- 11:15 AM HEART RATE, RESPIRATION RATE, AND DEVELOPMENTAL TIME: TRENDS ALONG THE LATITUDINAL THERMAL GRADIENT REVEAL DIFFERENTIAL RELIANCE ON PHYSIOLOGICAL PLASTICITY. ^{-E,T}
Travis R. Robbins¹ and Benjamin D. Haussmann² - ¹University of Nebraska, Omaha; ²Auburn University, Alabama

AWARD ELIGIBILITY: Collins Award (C; 2026), Ferraro Award (F), Toland Award (T)

11:30 AM

IF YOU GIVE A TADPOLE A CHEMOSENSORY STIMULUS: DETECTION OF INVASIVE PREDATOR CUES AND SIGNS OF CONSPECIFIC COMMUNICATION IN *PSEUDACRIS SIERRA* TADPOLES.

Fabien Tesfazion - University of Kansas, Lawrence

11:45 AM

A NOVEL METHOD FOR MEASURING STABILIZED HEART RATES IN ECTOTHERMS. ^{-E,T}

Owen Conroy, Garret Peterson, Brandon Wolfsohn, Tiffany Hegdahl, and Travis Robbins - University of Nebraska, Omaha

12:00 PM

Presentation of the George Toland Award and Dennis Ferraro Award - Awards Chair, **Daniel D. Fogell**

KHS General Business Meeting: President **Kelly Kluthe** presiding:

Introduction of KHS Officers & Committee Chairpersons:

Treasurer's Report by **Dexter Mardis**

Secretary's Report by **Keith Geluso**

Media and Publicity's Report by **Shania Burkhead-Harris**

Editor's Report by **Travis W. Taggart**

Historian's Report by **Suzanne L. Collins**

Field Trip Report by **Jackson Roberts**

Report on plans for the *KHS 53rd Annual Meeting* on the first weekend in November 2026

by President-Elect **Thomas Luhring**, Wichita State University, Kansas

Election of Officers for 2025

Lynnette Sievert (Emporia State University, Kansas), Nominating Committee Chair, offers the following slate of candidates:

- For President-Elect **Dennis Ferraro**, University of Nebraska, Lincoln
 Richard Glor, University of Kansas, Lawrence
- For Treasurer **Dexter Mardis**, Wichita, Kansas
- For Secretary **Keith Geluso**, Kearney, Nebraska

Announcement of the KHS election results by President **Kelly Kluthe**

POSTER SESSION I

FRIDAY • 7 NOVEMBER 2025 • 6:30—8:00 PM • Conference Rooms 2 & 3

RELATIONSHIP BETWEEN PERSONALITY TRAITS, BRUMATION EMERGENCE TIME, AND PHYSICAL TRAUMA.

Ash Van Dalsem, Augst Weishaar-Wilson, Erin Carter, Fritz Menninger, Serena Schmitz, Kyra Jantzen, Colin Nelson, and Benjamin Reed - Washburn University, Topeka, Kansas

GROWTH RATES OF ORNATE BOX TURTLES (*TERRAPENE ORNATA*) ACROSS DIFFERENT POPULATIONS.

Alexis Dalton, **Bowie Stockdale**, and Benjamin Reed - Washburn University, Topeka, Kansas

NOVEL OBSERVATIONS OF ORNATE BOX TURTLE (*TERRAPENE ORNATA*) DIET IN NORTHEASTERN KANSAS.

Madeline Holter and Benjamin Reed - Washburn University, Topeka, Kansas

CASE STUDY INVESTIGATING POTENTIAL MORTALITY FACTORS OF ORNATE BOX TURTLES (*TERRAPENE ORNATA*) IN NORTHEASTERN KANSAS.

Serena Schmitz, **Kyra Jantzen**, Emily Valenzuela, Kaitlyn Avila, Madeline Holter, Alexis Dalton, Bowie Stockdale, Michael Avila, Kaylyn Hobelman, August Weishaar-Wilson, Ash Van Dalsem, Erin Carter, Fritz Menninger, and Benjamin Reed - Washburn University, Topeka, Kansas

LUNGE AND LAUNCH: KINEMATICS OF THE SNAPPING TURTLE'S (*CHELYDRA SERPENTINA*) LUNGE.

Donnie Flowers, Gavin Payne, and David Penning - Missouri Southern State University, Joplin

TOWARDS BETTER REPTILE HUSBANDRY: USING AFOXOLANER (NEXGUARD®) FOR MITE MANAGEMENT IN A LARGE SNAKE COLONY.

Lily Rand and David Penning - Missouri Southern State University, Joplin

UP TO THE NECK: ECOLOGY OF THE RING-NECKED SNAKE (*DIADOPHIS PUNCTATUS*) IN SW MISSOURI.

Joe Stapp, David Penning, Jessica Pazin, Nathaniel Laughlin, and Johnathan Evenson - Missouri Southern State University, Joplin

THE SCALING OF MORPHOLOGY IN THE WESTERN COTTONMOUTH (*AGKISTRODON PISCIVORUS*).

Natalie Rodriguez and David Penning - Missouri Southern State University, Joplin

THE POWER OF THE INDIGO: BITE PERFORMANCE IN *DRYMARCHON*.

Johnathan Evenson and David Penning - Missouri Southern State University, Joplin

SMILE, YOU'RE ON CAMERA: THE USE OF TRAIL CAMERAS IN CLAY MODEL PREDATION STUDIES.

Kobi Pearson, **Grace Schriever**, Brenna Jones, Addison Wallace, and David Penning - Missouri Southern State University, Joplin

POPULATION ECOLOGY OF THE MASSASAUGA RATTLESNAKE AT LOESS BLUFFS NATIONAL WILDLIFE REFUGE, MISSOURI.

Darrin Welchert¹ and **Mark S. Mills**² - ¹US Fish & Wildlife Service, St. Joseph, Missouri; ²Department of Biology, Missouri Western State University, St. Joseph

SPOTTING SALAMANDERS WITH TRADITIONAL VERSUS EDNA SURVEYS.

Sam Skinner¹, Spencer Rettler², Andrew Herberg², and Jennifer Y. Lamb¹ - ¹Department of Biology and Chemistry, St. Cloud State University, Minnesota; ²Minnesota Department of Natural Resources, Saint Paul

ASSESSING URBAN ENCROACHMENT AND LAND COVER EFFECTS ON *AMBYSTOMA ANNULATUM* DISTRIBUTION IN EASTERN MISSOURI.

Tayci Sullivan and Tom Anderson - Southern Illinois University, Edwardsville

A DRIFT FENCE/PITFALL TRAP SURVEY OF HERPS, MAMMALS, AND INVERTEBRATES ON A RESTORED PRAIRIE.

Carissa Ganong, Emily Sweet, and Mark Mills - Department of Biology, Missouri Western State University, St. Joseph

INTRODUCING MSSU'S AMPHIBIAN AND REPTILE CONSERVATION (A.R.C.) PROGRAM.

David Penning, Lily Rand, Natalie Rodriguez, and Ashlyn Kanakis - Missouri Southern State University, Joplin

ASSESSING SPECIMEN SAFETY AND EFFECTIVENESS OF THE LAFRAMBOISE METHOD FOR ALCOHOL TRANSFER (ISOPROPYL > ETHANOL)

Paige Black and Jackson Roberts - Sternberg Museum of Natural History, Hays, Kansas

POSTER SESSION II

SATURDAY • 8 NOVEMBER 2025 • 3:00 - 4:30 PM • Conference Rooms 2 & 3

TURTLES IN ARKANSAS: PRELIMINARY FINDINGS FROM YEAR 1 OF A 4-YEAR ALLIGATOR SNAPPING TURTLE SURVEY.

Kevin Babbitt and Day Ligon - Missouri State University, Springfield

ALLIGATOR SNAPPING TURTLE DISTRIBUTION SURVEYS IN THE ARKANSAS AND RED RIVER BASINS.

Derek L. Bateman, Tessa N. Irvine, Kevin Babbitt, Alexander Edmond, and Day B. Ligon - Missouri State University, Springfield

A HIGHLY EFFECTIVE METHOD FOR DOCUMENTING OCCURRENCES OF TURTLES IN RIVERS: DIGISCOPING.

Alexis F. L. A. Powell and Greg Sievert - Emporia State University, Kansas

A LONG-TERM STUDY OF AN URBAN TURTLE POPULATION: 17 YEARS OF TRAPPING TURTLES ON A COLLEGE CAMPUS.

Mark S. Mills, Claudia Cartaya, Angel Justus, Jared Kelly, Tadya Shaffer, and Emily Sweet - Department of Biology – Missouri Western State University, St. Joseph

BUNKER RESURVEY PROJECT: HERPETOFAUNAL DIVERSITY & COMPOSITION.

Lauren McKinley, Ava Viscek, Camila Meneses, Christian Supsup, and Ana Motta - University of Kansas, Lawrence

EVOLUTIONARY DIVERGENCE IN COMPLEX ISLAND SYSTEMS: HOW DO DIFFERENT GEOGRAPHIC BARRIERS INFLUENCE GENETIC DIFFERENTIATION AMONG AMPHIBIAN POPULATIONS?

Faben Tesfazion, Kier Mitchel E. Pitogo, and Ana Motta - University of Kansas, Lawrence

CHARACTERIZING HERPETOFAUNAL COMMUNITIES ACROSS PHYSIOGRAPHIC REGIONS OF KANSAS.

Ava G. Viscek, Camila G. Meneses, Christian E. Supsup, Faben Tesfazion, Hayden Cannon, Kier Mitchel E. Pitogo, Lauren McKinley, Syrus Cesar P. Decena, and Ana Motta - Department of Ecology & Evolutionary Biology & Biodiversity Institute, University of Kansas, Lawrence

AN IMPROVED LIVER EXTRACTION TECHNIQUE FOR MUSEUM TURTLE SPECIMENS.

Dawson Kosmicki and Jackson Roberts - Sternberg Museum of Natural History, Fort Hays State University, Hays, Kansas

HUNGER PANG: MICROHABITAT ASSOCIATIONS OF *PLETHODON ANGUSTICLAVIUS* IN MCDONALD COUNTY, MISSOURI.

Logan Wilson, Emma Cooper, and **Jazmynn Brewer** - McDonald County High School, Joplin, Missouri

TADPOLES: A TAD PICKY? MICROHABITAT ASSOCIATION FOR MASS CAPACITY REPRODUCTION AND GROWTH IN *LITHOBATES CATESBEIANUS*.

Jayden Mustain, Ally Welch, and Kaberlyn Burchett - McDonald County High School, Joplin, Missouri

BASKING SITE SELECTION BY TURTLES ALONG INDIAN CREEK IN ANDERSON, MISSOURI.

Dominick Trimble, Roland Wardlaw, and **Zoey Clower** - McDonald County High School, Joplin, Missouri

OCCURRENCE OF ANURAN CALLS IN RELATION TO PRECIPITATION AND TEMPERATURE IN BIG SUGAR CREEK STATE PARK.

Lilly Reeves, Ellie Allgood, and **Abby Richards** - McDonald County High School, Joplin, Missouri

WHERE THE SNAKES SETTLE: TESTING MICROHABITAT PREFERENCES IN COVERBOARD DESIGNS.

Jonnie Mahrt and Kendall Stemper - Cabela's Apprenticeship, UNL Herpetology Lab, University of Nebraska, Lincoln

IMPLICATIONS OF CLIMATIC CHANGES: EFFECTS OF TEMPERATURE VARIABILITY AND PREY ON *AMBYSTOMA MAJOR-TIUM* METAMORPHOSIS INITIATION.

Hendy Ginting - Herpetology Lab, University of Nebraska, Lincoln

ALLOPATRIC VARIATION OF SHORT-HORNED LIZARDS (*PHRYNOSOMA HERNANDESI*) IN THE NORTH PLATTE RIVER VALLEY, NE, USA.

Nicholas G. Kowal and Dennis M. Ferraro - University of Nebraska, Lincoln

MASS MYSTERY IS HISTORY: COMPARING METHODS OF MEASURING BODY MASS OF LARVAL ANURANS ACROSS ONTOGENY.

Jamie Joiner, Shania E. M. Burkhead-Harris, and Thomas M. Luhring - Wichita State University, Kansas

NOTES: