

Charles M. Watson, Ph.D.

Midwestern State University
Department of Biology
Wichita Falls, Texas

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EDUCATION

- Ph.D. 2008 The University of Texas at Arlington, Arlington, Texas
Major: **Quantitative Biology**
Dissertation Topic: *Comparative thermal biology of the Plestiodon fasciatus species complex*
- M. S. 2004 The University of Texas at Arlington, Arlington, Texas
Major: **Biology**
Thesis topic: *The effects of controlled burning on ground skink populations in a mixed pine hardwood habitat in East Texas*
- B. S. 1998 Stephen F. Austin State University, Nacogdoches, Texas
Major: **Wildlife Science** Minor: **Forestry**

ACADEMIC POSITIONS

FULL-TIME

- | | | |
|--------------|--|---|
| 2016-Present | <i>Associate Professor of Biology</i> | Midwestern State University, Wichita Falls TX |
| 2013-2016 | <i>Assistant Professor of Biology</i> | Midwestern State University, Wichita Falls TX |
| 2011-2013 | <i>Assistant Professor of Biology</i> | McNeese State University, Lake Charles LA |
| 2008-2011 | <i>Lecturer / Laboratory Coordinator</i> | The University of Texas at Arlington |

ADJUNCT/PART-TIME

- | | | |
|-----------|------------------------------------|--|
| 2010-2011 | <i>Instructor</i> | Texas A&M Commerce, Commerce TX |
| 2008 | <i>Instructor</i> | The University of North Texas, Denton TX |
| 2006-2008 | <i>Graduate Teaching Assistant</i> | The University of Texas at Arlington |
| 2004-2005 | <i>Lecturer</i> | Richland College, Dallas TX |

PROFESSIONAL POSITIONS

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|-----------|-------------------------------------|--------------------------------|
| 2003-2005 | <i>Reptile/Amphibian Supervisor</i> | The Dallas Zoo, Dallas TX |
| 2001-2003 | <i>Reptile/Amphibian Keeper</i> | The Dallas Zoo, Dallas TX |
| 1998-2001 | <i>Reptile/Amphibian Keeper</i> | The Ellen Trout Zoo, Lufkin TX |

HONORS AND AWARDS

- | | | |
|------------|--------------------------------------|-------------------------------|
| 2014-2015 | <i>Faculty Member of the Year</i> | MWSU Student Government Assn. |
| 2014-2015 | <i>Biology Professor of the Year</i> | MWSU |
| 2012, 2013 | <i>Endowed Professor in Science</i> | McNeese State University |

RESEARCH INTERESTS

I am an integrative evolutionary biologist with interest and training in physiology, biogeography, biodiversity, conservation, and evolutionary ecology. Current projects integrate field ecology, physiological laboratory trials, and GIS to answer broad-scale evolutionary and ecological questions.

SCIENTIFIC PUBLICATIONS

PUBLISHED/IN PRESS

- Watson, C.M. & G. Francis*. **2015**. Three dimensional printing as an effective method of producing anatomically accurate models for studies in thermal ecology. *Journal of Thermal Biology* 51. 42-46.
- Watson, C.M., R. Makowsky, & J. C. Bagley. **2014**. Reproductive mode evolution in lizards revisited: updated analyses examining geographic, climatic and phylogenetic effects support the cold-climate hypothesis. *Journal of Evolutionary Biology* 27 (12), 2767-2780
- Watson, C.M. & L. Gough. **2012**. The role of temperature in determining distributions and coexistence of three species of *Plestiodon*. *Journal of Thermal Biology* 37(5) 374-379.
- Watson, C.M. & D. R. Formanowicz. **2012**. A Comparison of Maximum Sprint Speed Among the Five-lined Skinks (*Plestiodon*) of the Southeastern United States at Ecologically Relevant Temperatures. *Herpetological Conservation and Biology* 7(1) 75-82.
- Watson, C.M., C. Roelke, P. Pasichnyk*, & C. Cox. **2012**. The fitness consequences of the autotomous blue tail in lizards: An empirical test of predator response using clay models. *Zoology* 115(5) 339-344
- Watson, C.M. **2009**. Selection of available post-fire substrate by *Scincella lateralis* Say (Ground Skink). *The Texas Journal of Science* 61(3) 219-224.
- Watson, C.M. and M. L. Nicholson. **2011** (Published **2014**). The recovery of the macroarthropod community within the leaf-litter of an East Texas mixed hardwood-pine habitat following a prescribed burn. *The Texas Journal of Science* 64(1)

IN REVIEW/REVISION

- Merchant, M., M.H. Shirley & C.M. Watson. *Paleosuchus spp.* and *Osteolaemus spp.* (Dwarf Caiman and Dwarf Crocodiles). Defense Mechanisms. ***In Review: Herpetological Review***
- Watson, C.M. & W.W. Burggren. Interspecific Differences in Metabolic Rate and Metabolic Temperature Sensitivity Create Distinct Thermal Ecological Niches in Lizards (*Plestiodon*). ***In Review: PLoS One***
- Thibodeau, M.C., R.C. Vogtsberger, & C.M. Watson. Diversity of non-ant prey items found in the diets of the Texas Horned Lizard (*Phrynosoma cornutum*). ***In Review: Southwestern Naturalist***
- Thibodeau, M.C., R.E. Willis, & C.M. Watson. The Effects of Northern Bobwhite Quail (*Colinus virginianus*) Management on the Ecology of Texas Horned Lizards (*Phrynosoma cornutum*). ***In Revision: TBA***

IN PREPARATION

- Cox, C.L. & C.M. Watson. Multiple origins and evolutionary dynamics of predation-evading coloration in lizards. ***In Preparation***
- Watson, C.M. & R.P. Simpson. An inexpensive Arduino-based temperature data logger for studies in animal thermal biology. ***In Preparation***
- Watson, C.M. & M. Merchant. Thermal Effects on Innate Immune Response, Respiration, and Locomotor Performance in the Spectacled Caiman, *Caiman crocodilus*. ***In Preparation***
- Kravchuk, L.* & C.M. Watson. Corn snakes, crypsis, and substrate complexity: Cryptic snakes choose complex backgrounds. ***In Preparation***

*Undergraduate Researcher

NOTES AND SHORTER COMMUNICATIONS

- Fox, M.R.*, R.W. Stewart & C.M. Watson. 2014. *Plestiodon tetragrammus breviliniatus*. Geographic Distribution. *Herpetological Review*. 45:3.
- Watson, C.M. 2007. *Thamnophis proximus*: Foraging Biology. *Herpetological Review*. 38:3. p. 346
- Watson, C.M. and D. R. Formanowicz. 2007. *Plestiodon fasciatus*: Prey. *Herpetological Review*. 38:1. p. 82.
- Watson, C.M. and J. C. Watson. 2005. *Eumeces fasciatus*: Hatchlings. *Herpetological Review*. 36:3. p. 318.
- Watson, C.M. and M. S. Vaughan. 2004. *Liophis typhlus*: Coloration. *Herpetological Review*. 35:2. p. 178.

MAGAZINE ARTICLES

- Watson, C.M. 2007. The Five-Lined Skinks: "Scorpion Lizards of the Southeast" *Reptiles*. October. pp. 59-65.
- Watson, C.M. 2004. Setup and Maintenance of a Successful Herp Quarantine. *Reptiles USA*. Annual Issue. pp. 108-116.

PRESENTATIONS AND PUBLISHED ABSTRACTS

ORAL:

- Watson, C.M. Optimal feeding frequency and the physiological mechanisms underlying its evolution. *Evolution* 2016, Austin TX. **June 2016**
- Watson, C.M. *Managing Game Species to Maximize Nongame Species Conservation*. Texas Horned Lizard Conservation Coalition Meeting. Mason, TX. **February 2016**
- Johnson, J, N, Jun, A.M. Leimer, K. Lodge, & C.M. Watson. *From Campus to Community: (Re)valuing the Liberal Arts and Sciences in the 21st Century*. Panel discussion, Midwestern State University Faculty Forum. Wichita Falls TX. T. Giles, Moderator. **September 2015**
- Watson, C.M. *A Lizard's Tail in Three Acts: Physiology, Reproduction, and Predator Avoidance*. Midwestern State University Faculty Forum. Wichita Falls, TX. **March 2015**.
- Watson, C.M. and M. Merchant. *Thermal Effects on Innate Immune Response, Respiration, and Locomotor Performance in the Spectacled Caiman, Caiman crocodilus*. (Updated and Expanded). Society for Integrative and Comparative Biology. West Palm Beach, FL. **Jan. 2015**.
- Watson, C.M. *Optimal foraging frequency: a physiological component of optimal foraging theory*. Integrative Biology Workshop V. Wichita Falls, TX. **September 2014**
- Watson, C.M., C. Buttermore* & C. Cox. *Convergent evolution of the brightly colored tail in lizards: implications for the evolution of color signals*. *Evolution* 2014. Raleigh NC. **June 2014**
- Watson, C.M. *Notes on the remarkable physiology of the Ground Skink, Scincella lateralis*. Texas Herpetological Society Fall Symposium. Wichita Falls, TX. **October 2013**
- Watson, C.M. *Thermal Effects on Innate Immune Response, Respiration, and Locomotor Performance in the Spectacled Caiman, Caiman crocodilus*. 4th Annual Joint Vertebrate Eco-Physiology Workshop UNT/ Universidad Autonoma del Estado de Mexico. Malinalco, Mexico. **June 2013**
- Watson, C.M. *Avian Predators and the Fitness Benefits of the Autotomous Blue Tail in Lizards*. 1st Joint Congress on Evolutionary Biology. Ottawa, Ontario, Canada. **July 2012**.

- Watson, C.M. *Avian Predators and the convergent evolution of lizard phenotypes*. Louisiana Academy of Sciences 86th Annual Meeting. LSU-Alexandria. **March 2012**.
- Watson, C.M. and R. Makowsky. *A Geographic and climatic assessment of reproductive mode in lizards*. Evolution 2011. Norman OK. **June 2011**
- Watson, C.M. *Ecological Physiology and Biogeography: incorporating spatial data and classic physiological measures*. 3rd Annual Joint Vertebrate Eco-Physiology Workshop UNT/ Universidad Autonoma del Estado de Mexico. Denton TX. **May 2011**
- Watson, C.M. and R. Makowsky. *Association of reproductive mode and abiotic factors among North and Meso-American Lizards of the genera Phrynosoma, Plestiodon, and Sceloporus*. 2nd Annual Joint Vertebrate Eco-Physiology Workshop UNT/ Universidad Autonoma del Estado de Mexico. Valle de Bravo, Mexico. **February 2010**.
- Watson, C.M. *Combining Field Data with Laboratory Trials to Explain Differences in the Thermal Niche of Three Species of Plestiodon*. 1st Annual Joint Vertebrate Eco-Physiology Workshop. Toluca, Mexico. **September 2008**.
- Watson, C. M. and W. W. Burggren. *Thermal Physiology and Field Observations Support Microhabitat Diversification and Spatial Resource Partitioning Among Plestiodon fasciatus, P. laticeps, and P. inexpectatus*. Joint Meeting of Ichthyologists and Herpetologists. Montreal, Quebec, Canada, **July 2008**.
- Watson, C. M. and L. Gough. *Comparative thermal biology of three morphologically similar syntopic lizards of the genus Plestiodon*. Evolution 2008. Minneapolis, MN, **June 2008**
- Watson, C.M. *Natural History and Ecology of the Five-Lined Skinks*. The Dallas-Fort Worth Herpetological Society. **March 2007**
- Watson, C.M. *Aren't we all enthusiasts? Finding common ground for cooperation across herpetological borders*. Fall 2005 Symposium of the Texas Herpetological Society, Austin, TX, **November 2005**
- Watson, C.M. *The effects of prescribed burning on ground skink (Scincella lateralis) populations in a mixed hardwood-pine habitat in East Texas*. 52nd Annual Meeting of the Southwestern Association of Naturalists, Huntsville, TX, **April 2005**

POSTER:

- Watson, C. M. and M. L. Nicholson. *Recovery of leaf litter macroinvertebrate fauna following prescribed burning of a mixed hardwood-pine ecosystem*. 2006 Southeastern Ecology and Evolution Conference. Tuscaloosa, AL. **March 2006**.

GRANTS:

2015	<i>Physiological and Chemical Ecology of Milkweed and Milkweed Specialists</i> MWSU Faculty Research Grant	\$7,491.00
2014	<i>Ecology and Local Biogeography of the Texas Horned Lizard, <u>Phrynosoma cornutum</u></i> MWSU Faculty Research Grant	\$7,474.00
2014	<i>Optimal Foraging Frequency in Snakes Phase II: Infrequently Feeding Species</i> MWSU COSM Faculty Research Award	\$2270.00
2013	<i>Using Three-dimensional Printing to Study the Ecological Physiology of Lizards: A Novel Application for New Technology</i> MWSU Faculty Research Grant	\$4966.73
2013	<i>Digestive Physiology of <u>Scincella lateralis</u> and Reproductive Physiology of <u>Plestiodon obsoletus</u>: Field Data Collection and Laboratory Trials</i> MWSU COSM Faculty Research Award	\$1310.00

2012	<i>Temperature induced incubation time plasticity in the five-lined skinks.</i> Shearman Research Initiative Fund Grant	\$3,500.00
2012	<i>Substrate matching and self recognition in cryptic snakes: Do they know they are hiding?</i> Shearman Research Initiative Fund Grant.	\$3,300.00
2012	<i>Enhancing pre-med recruitment and recognition of McNeese State University through undergraduate involvement in an international academic conference</i> MSU Alumni Association Endowment Award	\$2,000.00
Total:		\$32,311.73

SERVED AS REVIEWER:

<i>African Journal of Herpetology</i>	<i>Global Ecology and Biogeography</i>	<i>Journal of Thermal Biology</i>
<i>Comparative Biochemistry and Physiology</i>	<i>Herpetological Journal</i>	<i>Journal of Zoology</i>
<i>Current Zoology</i>	<i>Herpetological Review</i>	<i>PLoS ONE</i>
	<i>Journal of Herpetology</i>	<i>Southwestern Naturalist</i>

PROFESSIONAL AFFILIATIONS

Society for the Study of Evolution	Member
American Society of Naturalists	Member
International Biogeography Society	Member
Southwestern Association of Naturalists	Member, BoD Local Meeting Representative SWAN 2013
Texas Herpetological Society	Member, 2012/13 President
Horned Lizard Conservation Society	Member
Phi Sigma Society	Member, 2007 Chapter President

PROFESSIONAL TRAINING AND WORKSHOPS

20th Summer Institute in Statistical Genetics, University of Washington, Seattle, WA
2015 Introduction to R
McNeese State University Faculty Development Workshops
2012 Incorporating Critical, Creative, and Systematic Thinking in Classroom Teaching and Evaluation, Instructor: Darrel J. Kesler Ph.D.
Giant Angstrom Partners / MSU Office of Research Services
2012 Strategic Grant Development, Certificate
Texas Science Faculty Collaborative for Team-Based Learning (TBL)
2011 Strategies for Teaching Undergraduate Science Classes with TBL, Marble Falls TX
2011 TBL Content Writing Retreat, Galveston TX
American Zoo and Aquarium Association Professional Training Program, Wheeling WV
2002 Managing for Success: Career Development, Certificate
2003 Managing for Success: Organizational Development, Certificate
2004 Population Management I, Certificate

SERVICE

Midwestern State University

2015-Present	Provost's Task Force for Advancing the Liberal Arts
2015-2016	First Year Experience Task Force
2014-Present	Institutional Animal Care and Use Committee: Member
2014-Present	Equipment Maintenance Committee
2014-Present	Graduate Faculty

McNeese State University

2012-2013	Coordinator of Undergraduate Research: MSU LS-LAMP Program
2012-2013	Health Professions Committee
2012-2013	Graduate Faculty
2012-2013	SWAN 2013 Planning Committee: Chair
2011-2013	Tuten Park Biological Inventory Committee: Chair
2011-2013	Human Anatomy and Physiology Committee
2011-2012	Retention Committee

The University of Texas at Arlington

2008-2011	Teacher Education Council: Biology Representative
2009-2011	Biology Teacher Certification Advisor

Community

2012-2013	Friends of Tuten Park Board of Directors: Charter President
2012	Louisiana Academy of Science: Poster Competition Judge
2010-2013, 2015	Dallas Area Regional Science Fair: Judge

Other:

2015+	Society for Integrative and Comparative Biology Meeting: Session Chair
2014+	Evolution 2014: Session Chair
2014	Integrative Biology Workshop: 2014 Meeting Coordinator
2012-2013	Texas Herpetological Society: 2012-2013 President , 2013 Meeting Coordinator
2012-Present	<i>The Southwestern Naturalist</i> Associate Editor : Herpetology
2012-2013	Southwestern Assn. of Naturalists: Local Rep. / 2013 Annual Meeting Coordinator
2012	1 st Joint Congress on Evolutionary Biology: Session Chair

GRADUATE MENTORSHIP

Committee Chair

2014-2015	Jaydeep Kolape, M.S.	Biology	<i>Digestive Physiology and Gut Morphology of the Ground Skink, <u>Scincella lateralis</u></i>
2014-2016	Marcus Thibodeau, M.S.	Biology	<i>The Effect of Northern Bobwhite Quail (<u>Colinus virginianus</u>) Management on the Ecology of Texas Horned Lizards</i>
2014-2016	Christopher Buttermore, M.S.	Biology	<i>Comparison of General Health Indicators Between Captive and Wild <u>Crotalus atrox</u> (Western Diamondback Rattlesnake) With Implications for the Improvement of Captive Husbandry</i>
2014-present	William Krogman	Candidate for MS in Biology	<i>Adaptive advantage of an ontogenetic shift from conspicuous colored tails to cryptic tails in <u>Plestiodon</u></i>
2016-present	Jeanel Georges	Candidate for MS in Biology	<i>Interspecific competition between <u>Anolis oculatus</u> and <u>Anolis cristatellus</u>: Impact of an invasive on an island endemic</i>
2016-present	Stephanie Fonville	Graduate Student in Biology	<i>Richness and Abundance of Mosquito Communities in Archer, Baylor, Clay, Montague, Wichita, and Wilbarger Counties of North Texas</i>

Committee Member

2016-present	Jared White	Graduate Student in Biology
2014-present	Khyati Chauhan	Candidate for MS in Biology
2014-present	Matthew Fox	Candidate for MS in Biology
2015-present	Gisela Knightstep	Candidate for MS in Biology
2015-present	Sarah McBride	Candidate for MS in Biology
2015-present	Erika Mitchell	Candidate for MS in Biology
2014-2016	William Stewart, M.S.	Biology
2012	Christopher Brown, M.S.	Chemical and Environmental Science (McNeese State)
2011-2012	Jonathan Smith, M.S.	Chemical and Environmental Science (McNeese State)

UNDERGRADUATE MENTORSHIP

Tim Torres	Spring/Summer/Fall 2016	MWSU
Francisco Ramos	<i>Quantitative Analysis of Fatty Acids Present within Tropical Milkweed.</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum Awardee: Second Place Undergraduate Poster 2016	
Rupert Sterling	Spring/Summer/Fall 2016	MWSU
	<i>Metabolic Effects of Folivory by Tobacco Hornworm on the Tobacco Plant.</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum	
Rohan D. Jagtap	Spring/Summer/Fall 2016	
	<i>Microscopic Comparison of Alligator and Crocodile Teeth Suggest Differences in Amelogenesis Among the Crocodylidae.</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum	
Christian Esquivel	Spring 2015-Present	MWSU
	<i>Comparison of Moisture and Energy Content among <i>Asclepias</i> spp.</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum Awardee: Third Place Undergraduate Poster 2015	
Joclyn LeBlanc	Spring 2015	MWSU
	<i>Differences in digestive efficiency of two common feeder insects to a popular reptile pet, the Leopard Gecko</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum	
Adile Gendusa	Spring/Summer 2014	MWSU
	<i>Does species of prey affect digestive efficiency in North American skinks?</i> Oral Presentation: MWSU UGROW Scholars Symposium	
Sarah McBride	Spring 2014:	MWSU
Yvonne Michaud	<i>Does feeding frequency affect digestive efficiency in corn snakes?</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum	
Gamal Francis	Spring 2014	MWSU
	<i>Integrating Technology, Art and Science: 3-D printed lizard models for research in thermal biology</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum Publication: Watson and Francis 2015	
Simeon Nwegbo	Spring 2014	MWSU
	<i>Gut passage rate in the ground skink: A cooperative study between Biology and Radiological Sciences Laboratories</i> Poster Presentation: MWSU Undergraduate Research & Creative Activity Forum	

- Donavan Tietje Spring 2013: MSU
Thermal physiology of the Spectacled Caiman, Caiman crocodilus
Oral Presentation: 60th Annual Meeting of The Louisiana Academy of Sciences
- Jessica Stark Spring 2013: MSU
Hannah Etheridge *Digestive efficiency in a remarkably small vertebrate predator, the Ground Skink*
Poster Presentation: 60th Annual Meeting of The Louisiana Academy of Sciences
- Lucretia Holloway Spring 2013: MSU
Efficacy of a new method for producing morphologically accurate operative temperature (Te) models for studies in lizard thermal ecology.
Poster Presentation: 60th Annual Meeting of The Louisiana Academy of Sciences
- Donovan Cormier Fall 2012/Spring 2013: MSU
Luke Ledoux *An evaluation of specific dynamic action of a small leaf-litter vertebrate, Scincella lateralis, eating common prey items*
Poster Presentation: MSU Undergraduate Scholar Research Symposium
- Lindsay Kravchuk Fall 2012/Spring 2013: MSU
Corn snakes, crypsis, and substrate complexity: Do cryptic snakes choose complex backgrounds?
Poster Presentation: (1) MSU Undergraduate Scholar Research Symposium, (2)60th Annual Meeting of The Louisiana Academy of Sciences, (3) University of Louisiana System Research Symposium
Awardee: McNeese State University Undergraduate Research Award
- Devin Norman Fall 2011/Spring 2012: MSU
Thermal physiology of the ground skink (Scincella lateralis), a temperate thermo-conformer
Poster Presentation: (1) 59th Annual meeting of the Louisiana Academy of Science, (2) 1st Joint Congress on Evolutionary Biology, Ottawa Canada.
Awardee: NSF Diversity in Evolution Grant Award
- Scott Alford Fall 2010/Spring 2011: UTA
Behavioral Modification of Body shape by Texas Horned Lizards (Phrynosoma cornutum) increases thermoregulatory efficiency.
Poster Presentations: (1) Annual Celebration of Excellence by Students (ACES). The University of Texas at Arlington, (2) 3rd Annual Joint Vertebrate Eco-Physiology Workshop UNT/ Universidad Autonoma del Estado de Mexico. Denton TX.
Awardee: UTA's ACES Provost's Undergraduate Poster Award – 2011
- Paul Pasichnyk Fall 2009/Spring 2010: UTA
In field conditions, avian predators attack blue sections of a potential prey item at a higher frequency than black sections: Empirical evidence of an underlying premise of the decoy hypothesis.
Poster Presentations: (1) Fall Symposium of the Texas Herpetological Society, (2) 2nd Annual EcoPhysiology Workshop in Valle de Bravo, Mexico. (3) Annual Celebration of Excellence by Students (ACES). The University of Texas at Arlington
Awardee: UTA's ACES President's Undergraduate Poster Award – 2010
- Mitra Behzadi Spring 2009: UTA
Shaliza Ismaili *Thermal Extremes Describe Latitudinal Range Limitations in the Five-Lined Skinks, Plestiodon fasciatus, P. inexpectatus, and P. laticeps.*
Poster Presentation: Annual Celebration of Excellence by Students (ACES). The University of Texas at Arlington
Awardee: UTA's ACES President's Sustainability Award – 2009
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PROFESSIONAL MEETING ORGANIZATION

2014 Organizer / Host	Integrative Biology Workshop V Midwestern State University (40 attendees)
2013 Organizer / Society President:	Texas Herpetological Society Fall Symposium Midwestern State University (27 attendees)
2013 Organizer / Society President:	Texas Herpetological Society Spring Field Meet Lake Caddo Wildlife Management Area (30 attendees)
2013 Host Committee Chair:	Southwestern Association of Naturalists 60 th Annual Meeting McNeese State University (400+ attendees)

COURSES TAUGHT

Midwestern State University

Human Anatomy and Physiology I & II
Ecology + Lab
History of the Life Sciences (Graduate)

Biostatistics (Graduate)
Seminar in Biology (Capstone)
Principles of Biology II

McNeese State University

Human Anatomy and Physiology
Introductory Biology Lab
Animal Physiology

Human Anatomy and Physiology Lab+
Comparative Anatomy of the Vertebrates

Texas A&M-Commerce

Biogeography and Biodiversity (Graduate)

Geospatial Mapping (GIS)

The University of Texas at Arlington

Cellular & Molecular Biology
Structure & Function of Organisms
Biology of Texas
Introduction to Biology Non-Majors
Biostatistics
Cellular & Molecular Biology Lab+

Structure & Function of Organisms Lab+
Introduction to Biology Lab+
Comparative Vertebrate Anatomy Lab
Plant Science Lab
Human Anatomy and Physiology I Lab

The University of North Texas

Comparative Vertebrate Anatomy Lab

Richland College

Introductory Biology

Introductory Biology Lab

Current to 26 July 2016