

CURRICULUM VITAE

Spring 2010

WILLIAM I. LUTTERSCHMIDT

Sam Houston State University Department of Biological Sciences Huntsville, Texas 77341-2116 (936) 294-1556 E-mail:
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EDUCATION

DeSales University, Center Valley, Pennsylvania (Advisor: Howard K. Reinert) B.S., May 1988 (Biology and Secondary Education) Pennsylvania State Teacher's Certification in Biology

Southeastern Louisiana University, Hammond, Louisiana (Advisor: Richard A. Seigel) M.S., May 1992 (Biological Sciences)

University of Oklahoma, Norman, Oklahoma (Advisor: Victor H. Hutchison) Ph.D., November 1997 (Zoology)

PROFESSIONAL EXPERIENCE and APPOINTMENTS Post-Doctoral

Position:

Melatonin Research and Physiological Ecology Laboratory, Department of Zoology, University of Oklahoma, Norman, Oklahoma. Laboratory Manager and Project Coordinator (Spring and Summer 1998)

Teaching Appointments:

William Allen High School, Allentown, PA. Student teaching, Spring 1988. Allentown Central Catholic High School, Allentown, PA. 1988-1989. Southeastern Louisiana University, Department of Biological Sciences, Hammond, LA.

Teaching Assistantship, 1989-91. Oklahoma Museum of Natural History, Norman, OK., 1992-1996. Summer workshops. University of Oklahoma, Department of Zoology, Norman, Oklahoma.

Teaching Assistantship: 1992-1997. **Instructor:** Human Physiology. Spring and Summer 1998.

Professorships:

Sam Houston State University, Department of Biological Sciences, Huntsville, Texas.

Assistant Professor of Biological Sciences: Fall 1998 to Spring 2004. **Associate Professor** of Biological Sciences: Fall 2004 to Current.

University of Oklahoma Biological Station, Lake Texoma, Oklahoma **Summer Graduate Faculty.** Summer 1999, 2000, 2002, 2004, 2006.

University of Oklahoma, Department of Zoology, Norman, Oklahoma **Special Adjunct Doctoral Faculty.** Fall 2000 - Spring 2007

Other Professional Positions: Director and Curator. Sam Houston State Vertebrate Museum and the Natural History Education Program. Summer 2000 to current.

Director. The Texas Research Institute for Environmental Studies. Fall 2008 - Current.

Associate Editorships. *The Southwestern Naturalist*. Summer 2004 - Spring 2009.
Herpetologica. Fall 2007 - Current.

Courses Taught:

Introductory Biology Comparative Physiology Professional Aspects of Science Introductory Zoology
Comparative Anatomy Biometry (Biostatistics) Ecology Anatomy and Physiology Experimental Design
Evolutionary Ecology Human Physiology Herpetology

HONORS, FELLOWSHIPS, AND AWARDS Deans List, DeSales University, 1987-88. President, Alpha Sigma Chi (Science Fraternity), DeSales University, 1986-88. Excellence in Research Award, DeSales University, 1988. President, Biology Graduate Student Organization, Southeastern Louisiana University, 1990-91. Student Representative to Graduate Faculty, Southeastern Louisiana University, 1990-91. Teaching Fellowship, Southeastern Louisiana University, 1991. Elected Associate Member, Sigma Xi Research Society, 1991. Treasurer, Zoology Association of Graduate Students, University of Oklahoma, 1993. Graduate Summer Research Assistantship, University of Oklahoma, 1993, 1995 Zoology Dept. Award for Excellence in Graduate Student Teaching, Univ. of Oklahoma, 1995 Wilks Award Finalist. The Southwestern Naturalist Student Paper Competition. 1998. Beta-Beta-Beta Biological Honor's Society Honorary Member. 1999. Marquis Who's Who Among American Professors. 2001-2002. College of Arts and Sciences Special Recognition Award for Outstanding Contributions, Sam Houston State University. 2001-2002. College of Arts and Sciences Special Recognition Award for Outstanding Contributions, Sam Houston State University. 2003-2004. Elected Full Member, Sigma Xi Research Society, 2004. Excellence in Research Award, Sam Houston State University. 2006. Faculty Senate Appreciation for Outstanding Service, Sam Houston State University. 2009.

INSTITUTIONAL SERVICE University Service: Research Council Fall 2002 to Summer 2005 Faculty Tenure Hearing Committee, Chair Fall 2006 to Summer 2007 Faculty Tenure Hearing Committee Fall 2004 to Summer 2005 Honor's Council Fall 2007 to Summer 2010 Core Curriculum Assessment Committee Fall 2008 to Summer 2011 Faculty Senate (Term 1) Fall 2004 to Summer 2005 Faculty Senate (Term 2) Fall 2006 to Summer 2009 Faculty Achievement Record Committee Fall 2000 to Summer 2003

College Service (Arts and Sciences):

Junior Faculty Advisory Council Fall 2002 to Summer 2003 College Curriculum Committee Fall 2001 to Summer 2003

Departmental (Biological Sciences):

Departmental Exhibit at Bearkat County Fair Fall 2006 Curriculum Committee, Chair Fall 2003 to Summer 2004 Curriculum Committee Fall 2002 to Summer 2004 Space Committee Fall 2008 to Summer 2008 Biological Field Station Committee Fall 2000 to Current Joey Harrison Student Research Award Comm. Fall 2004 to Current Entomology Search Committee, Chair Spring 2008

GRADUATE STUDENTS SAM HOUSTON STATE UNIVERSITY (Thesis Advisor) Ms. Laurieanne Dent. May 2001. Comparative thermal physiology of two sympatric Centrarchids with a discussion of microhabitat utilization. Mr. Daniel S. Millican. August 2001. Moisture and temperature relations of endemic and exotic earthworms inhabiting unmanaged sites in Southeast Texas. Ms. Colleen A. Biles. May 2002. The effects of melatonin on the diamondback water snake, *Nerodia rhombifer*. Mr. Dennis Keith Wasko. December 2002. Assemblage structure and seasonal activity of a herpetofaunal community in Eastern Texas. Ms. Sara Beth Turk. August 2003. The seasonal timing of follicular development in the mud snake, *Farancia abacura*.

Mr. Sidney M. Anderson. December 2003. Helminth community structure in two Lepomid species (Osteichthyes: Centrarchidae) from an urban watershed.

Ms. Anne B. Buchman. August 2008. Seasonal activity patterns, baseline population genetics, and analysis of putative hybridization in three-toed box turtles (*Terrapene carolina triunguis*).

Ms. Melissa Miller. December 2009. Comparative physiological ecology of cutaneous water loss in two sympatric and congeneric pitvipers.

Mr. James C. Cureton II. May 2010.

Mr. Tyler Saxton. A biogeographical and comparative investigation of evaporative water loss rate and desiccation tolerance among five congeneric toads.

Mr. Edward Tivador. Comparative thermophilic requirements of two closely related pit-vipers.

Mr. Chas Stevens. Misuse of Model I Regression in Biology.

Mr. Samuel Bonge. Comparative peptide profiles of sympatric anurans *Hyla versicolor* (Hylidae) and *Lithobates clamitans* (Ranidae): an abti-predator hypothesis. Mr. Jeffery Goessling. Dietary influences in metabolism of the pit-viper *Crotalus durissus*.

SAM HOUSTON STATE UNIVERSITY (Thesis Committee)

Ms. Hope R. McGaha. May 2000. Effects of dual species brood parasitism on the nesting success of northern cardinals.

Mr. Robert T. Puckett. May 2003. Bioassessment potential and water quality tolerance thresholds of larval Ephemeroptera in Southeast Texas streams.

Ms. Kc L. Wendler. December 2004. A seasonal faunal succession study in east Texas and development of the Green Bottle Fly, *Phaenicia coeruleivirdis* (Diptera: Calliphoridae).

Ms. Autumn J. Smith. August 2005. A study on the development, thermal limits, and host specificity of several species of Eugregarinida infecting tropical cockroaches.

Ms. Sheena K. Humbird. December 2006. Extra-pair mating tactics in the northern cardinal (*Cardinalis cardinalis*): "A test of the "constrained female hypothesis".

Ms. Sarah L. Keith-Couch. December 2008. Floristic inventory of Lake Houston Wilderness Park.

SAM HOUSTON STATE UNIVERSITY (Undergraduate Research)

Ms. Denice Hill-Holiday. May 2002. Physiological response to temperature with varying digestive

conditions and ecdysis in sunbeam snakes (*Xenopeltis unicolor*). Ms. Dona Bush. May 2005. Physiological response to temperature with varying digestive conditions and ecdysis in sunbeam snakes (*Xenopeltis unicolor*).
Mr. William Floyd. May 2005. Fluctuating asymmetry in fishes from different levels of urban impact.
Ms. Audry Glass. May 2006. Spatial Recognition and Distribution Patterns Between Sympatric Snakes Within a Behavior Field Arena.
Ms. Evelin Polloge. May 2006. Spatial Recognition and Distribution Patterns Between Sympatric Snakes Within a Behavior Field Arena.
Ms. Amanda M. Lucas. May 2007. Spatial Recognition and Distribution Patterns Between Sympatric Snakes Within a Behavior Field Arena. **Elliott T. Bowers Honor's Thesis**
Mr. Kyle Fenter. May 2007. Physiological response to temperature with varying digestive conditions and ecdysis in sunbeam snakes (*Xenopeltis unicolor*).
Mr. James C. Cureton II. May 2008. Microsatellite Primer Development for the Large spring Gambusia (*Gambusia Geiseri*) & Effect of Temperature on Spatial Partitioning in the Western Cottonmouth (*Agkistrodon piscivorus*). **Elliott T. Bowers Honor's Thesis**
Ms. Laurie Torkildsen. May 2010. Diel variation in standard metabolic rate mediated by photoperiod cues and melatonin.

UNIVERSITY OF OKLAHOMA (Thesis Committee)

Mr. Eric Roth. May 2005. Cottonmouth (*Agkistrodon piscivorus*) Spatial ecology. Ph.D. Dissertation.

RESEARCH INTERESTS Physiological Ecology and Comparative Physiology Physiological Plasticity of Temperature Dependent Rate Processes of Metabolism and Energetics Evolutionary Ecology and the Comparative Phylogenetic Method Statistical Applications in Physiological Ecology and Biophysical Modeling Behavioral Endocrinology

GRANTS RECEIVED Lutterschmidt, W.I. 1989 - 1990. Movement patterns and habitat selection in timber rattlesnakes. Hawk Mountain Sanctuary Research Award. **\$1,000** Lutterschmidt, W.I. 1990. Constraints of habitat selection on thermoregulation and preferred body temperature in the timber rattlesnake, *Crotalus horridus*. Sigma Xi, Grants-in-Aid of Research. **\$450** Lutterschmidt, W.I. 1994 and 1997. Field metabolic rates of an endangered rattlesnake in Aruba. President's International Travel Fellowship Grant, Univ. of Oklahoma. **\$1,000** Lutterschmidt, W.I. 1995. Herpetofauna of Cucumber Creek, Oklahoma. Nature Conservancy Research and Survey Grant, Oklahoma Chapter. **\$2,000** Durtsche, R.D. and W.I. Lutterschmidt, M.M. Fuller, K.M. Polivka, J.F. Schaefer. 1996. Osmoregulation and oxygen consumption in aquatic vertebrates. Hach Company (Loveland, Co.), Instrument and Equipment Grant. **\$4,000** Lutterschmidt, D.I., W.I. Lutterschmidt, V.H. Hutchison. 1996. Influence of melatonin and chlorpromazine upon the photo- and scotophasic thermal selection of the bullsnake, *Pituophis melanoleucus*. **\$500** Lutterschmidt, W.I. 1997. Thermal tolerance, geographic range, and Liebig's Law: does physiological plasticity matter? Graduate Student Senate Travel Grant **\$250**, Graduate College Travel Grant. **\$350**, and SSAR Travel Grant. **\$200** Lutterschmidt, W.I. 1998. Comparative physiology of metabolic rate and thermal tolerance: physiological parameters for investigating macroecological patterns. Graduate College Travel Grant. **\$250**

Lancaster, L.D. and W.I. Lutterschmidt. 2000, 2001. Interspecific metabolism comparisons in *Lepomis* in Response to Acute Temperature Change. Texas Chapter of the American Fisheries Society. **\$1,200**

Lutterschmidt, W.I. 2000. Digestive Physiology and Food Assimilation in the Snake, *Crotalus unicolor*. Research and Sponsored Programs, Faculty Development Grant, Sam Houston State University. **\$5,000**

Lutterschmidt, W.I. 2000-2001. Physiological stressors and urbanization role in ecosystem dynamics. Construction Engineering Research Laboratory. **\$95,000**

Thies, M.L., and W.I. Lutterschmidt. 2000. Renovation and completion of the Sam Houston State Vertebrate Museum, Sam Houston State University, Huntsville, Texas. Texas HEAF Allocation. **\$5,000**

Lutterschmidt, W.I. 2001-2002. Modeling the effects of physiological stressors and habitat fragmentation on ecosystem dynamics in two ectothermic species. Construction Engineering Research Laboratory. **\$227,406**

Lutterschmidt, W.I. and D.C. Wilson. 2001. Instrument and Equipment Grant. Aronex Corporation. Woodlands, Texas. **\$12,189**

Lutterschmidt, W.I. and J.L. Cook. 2002. The distributional status and prey base of the Texas horned lizard (*Phrynosoma cornutum*) on Camp Bowie, Brown County, Texas. **\$6,395**

Lutterschmidt, W.I. 2002. The herpetofaunal community of Camp Swift, Bastrop County, Texas. **\$18,809**

Neudorf, D.L. and W.I. Lutterschmidt. 2003. Research Experience For Undergraduates (REU) in field biology. Sam Houston State University Enhancement Grant for Research. **\$18,000**

Neudorf, D.L. and W.I. Lutterschmidt. 2004. Research Experience For Undergraduates (REU) in field biology. Sam Houston State University Enhancement Grant for Research. **\$18,000**

Neudorf, D.L. and W.I. Lutterschmidt. 2004 - 2006. Research Experience For Undergraduates (REU) in field biology. National Science Foundation REU Program, (Award Number: DBI – 0353538). **\$151,000**

Thies, M. L., J. Cook, T. Cook, D.L. Neudorf, W.I. Lutterschmidt, J.K. Williams, and K. Wunch. 2003. Detection, testing, mapping and movement of carriers of deadly disease: Disease vector studies along the US-Mexico border and their potential threat to Homeland Security. Federal appropriation to the Department of Homeland Security to the Texas State University System. **\$217,614**

Williams, J.K. and W.I. Lutterschmidt. 2004. Land use practices and its effect on ecosystem dynamics along the Rio grande. USDA-CSREES Grant. **\$156,000**

Williams, J.K. and W.I. Lutterschmidt. 2005. Land use practices and its effect on ecosystem dynamics along the Rio grande. USDA-CSREES Grant. **\$95,000**

Neudorf, D.L. and W.I. Lutterschmidt. 2006 - 2010. Research Experience For Undergraduates (REU) in experimental field biology at Sam Houston State University. National Science Foundation REU Program, (Award Number: DBI – 0649187). **\$287,137**

Deaton, P, C.P. Randle, and W.I. Lutterschmidt. 2009. Conservation of declining Ornate box turtles (*Terrapene ornate ornate*) in Texas: Impacts of urbanization on population genetics structure and mortality. Arthur A. Seeligson, Jr. Texas Wildlife Conservation Fund. Dallas-Fort Worth Zoo. **\$5,000**

Total Grant Money Received: **\$1,052,000**

CURRENT PROFESSIONAL AND HONORARY AFFILIATIONS American Association of University Professors Association of Southeastern Biologists American Society of Ichthyologists and Herpetologists Herpetologists' League Sigma Xi (Full Member) Society for the Study of Amphibians and Reptiles Society for Integrative and Comparative Biology (Division of Comparative Physiology & Biochemistry) Southwestern Association of Naturalists Texas Association of College Teachers (1999 - 2005) Texas Academy of Sciences

PROFESSIONAL SERVICE and ACTIVITIES Associate Editorships: *The Southwestern Naturalist*. Summer 2004 - Spring 2009. *Herpetologica*. Fall 2007 - Current.

Peer Reviewer for: American Naturalist, Canadian J. of Zoology, Comparative Biochemistry and Physiology, Copeia, Ethology, Herpetological Journal, Herpetological Review, Journal of Herpetology, Journal of the Pennsylvania Academy of Sciences, Marine Biology, Southwestern Association of Naturalists.

Board of Governors, Class of 2008. The Association of Southwestern Naturalists. 2006 - 2008.

Society for the Study of Amphibians and Reptiles (SSAR) Kennedy Award Committee. 2005 - 2009.
Award presented annually by the for the most significant student paper published in the Journal of Herpetology during the preceding year.

Herpetologists' League Ernest E. Williams Research Grant Committee for Physiology. 2010.

PUBLICATIONS Research Articles **Lutterschmidt, W.I.** and H.K. Reinert. 1990. The effect of ingested transmitters upon the temperature preference of the water snake, *Nerodia s. sipedon*. *Herpetologica* 46(1):39-42.

Lutterschmidt, W.I. and L.A. Rayburn. 1993. Observations of feeding behavior in *Thamnophis* after surgical procedures. *Journal of Herpetology* 27(1):95-96.

McGuckin, A.W., C.S. Rosenberry, and **W.I. Lutterschmidt**. 1993. Some observations of fall locality and movement of largemouth bass, *Micropterus salmoides*, in a Mesotrophic reservoir, Lake Raystown. *Journal of the Pennsylvania Academy of Sciences* 67(1):10-12.

Lutterschmidt, W.I. 1994. The effect of surgically implanted transmitters upon the locomotory performance of the checkered garter snake, *Thamnophis m. marcianus*. *Herpetological Journal* 4(1):11-14.

Lutterschmidt, W.I., G.A. Marvin, and V.H. Hutchison. 1994. Alarm response by a plethodontid salamander (*Desmognathus ochrophaeus*): conspecific and heterospecific "Schreckstoff." *Journal of Chemical Ecology* 20(11):2471-2479.

Lutterschmidt, W.I. and C.M. Taylor. 1996. The herpetofauna and ichthyofauna of the Cucumber Creek Watershed, LeFlore County, Oklahoma. *Proceedings of the Oklahoma Academy of Sciences* 76:43-47.

Lutterschmidt, W.I., J.J. Lutterschmidt, and H.K. Reinert. 1996. An improved and inexpensive timing device for monitoring pulse frequency of temperature sensing transmitters in free-ranging animals. *American Midland Naturalist* 136(1):172-180.

- Durtsche, R.D., P.J. Gier, M.M. Fuller, **W.I. Lutterschmidt**, R. Bradley, C.K. Meier, and S.C. Hardy. 1997. Ontogenetic variation in the autecology of the greater earless lizard, *Cophosaurus texanus*. *Ecography* 20(4):336-346.
- Lutterschmidt, W.I.** and J. F. Schaefer. 1997. A simple computer simulation for demonstrating and modeling predator-prey oscillations. *Journal of Biological Education* 31(3):221-227.
- Lutterschmidt, W.I.** and V.H. Hutchison. 1997. The critical thermal maximum: data to support the onset of spasms as the definitive end point. *Canadian Journal of Zoology* 75(10):1553-1560.
- Lutterschmidt, W.I.** and V.H. Hutchison. 1997. The critical thermal maximum: history and critique. *Canadian Journal of Zoology* 75(10):1561-1574.
- Marvin, G.A. and **W.I. Lutterschmidt**. 1997. Locomotor performance in juvenile and adult box turtles (*Terrapene carolina*): A reanalysis for effects of body size and extrinsic loading using a terrestrial species. *Journal of Herpetology* 31(4):582-586.
- Lutterschmidt, D.I., **W.I. Lutterschmidt**, and V.H. Hutchison. 1998. Melatonin and chlorpromazine: thermal selection and metabolic rate in the bullsnake, *Pituophis melanoleucus*. *Comparative Biochemistry and Physiology* 118(3C):271-277.
- Lutterschmidt, W.I.**, D.I. Lutterschmidt, C.R. Tracy, and V.H. Hutchison. 1999. Time course analyses of the thermoregulatory responses to melatonin and chlorpromazine in bull snakes (*Pituophis melanoleucus*). *Journal of Thermal Biology* 23(6):319-327.
- Schaefer, J.F., **W.I. Lutterschmidt**, and L.G. Hill. 1999. Physiological performance and stream microhabitat use by two Centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). *Environmental Biology of Fishes* 54:303-312.
- Dent, L. and **W.I. Lutterschmidt**. 2001. The ichthyofauna of Harmon and Wynne Creeks sampled within the Center for Biological Field Studies, Walker County, Texas. *Texas Journal of Science* 53(2):139-146.
- Lienesch, P.W., **W.I. Lutterschmidt**, and J.F. Schaefer. 2000. Long-term changes in the fish assemblage of a small stream isolated by a reservoir. *Southwestern Naturalist* 45(3):274-288.
- Lutterschmidt, D.I., **W.I. Lutterschmidt**, N.B. Ford, and V.H. Hutchison. 2002. Behavioral thermoregulation and the role of melatonin in a nocturnal snake. *Hormones and Behavior* 41(1):41-50.
- Sanford, G.M., **W.I. Lutterschmidt**, and V.H. Hutchison. 2002. The comparative method revisited. *BioScience* 52(9):830-836.
- Sartorius, S.S., J.P.S. do Amaral, R.D. Durtsche, C.M. Deen, and **W.I. Lutterschmidt**. 2002. Thermoregulatory accuracy, precision, and effectiveness in two sand-dwelling lizards under mild environmental conditions. *Canadian Journal of Zoology* 80(11):1966-1976.
- Dent, L. and **W.I. Lutterschmidt**. 2003. Comparative thermal physiology of two sympatric sunfishes (Centrarchidae: Perciformes) with a discussion of microhabitat utilization. *The Journal of Thermal Biology* 28(1):67-74.
- Lutterschmidt, D.I., **W.I. Lutterschmidt**, and V.H. Hutchison. 2003. Melatonin and thermoregulation

in ectothermic vertebrates: a review. *Canadian Journal of Zoology* 81(1):1-13.

Lutterschmidt, W.I., S.B. Turk, E.D. Wilson. 2005. Seasonal timing of follicular development of the Mud Snake, *Farancia abacura* (Colubridae). *Herpetological Review* 36(3):244-248.

Roth, E.D., **W.I. Lutterschmidt**, and D.A. Wilson. 2006. Relative medial and dorsal cortex volume in relation to sex differences in spatial ecology of a snake population. *Brain, Behavior and Evolution* 67(1):103-110.

Lutterschmidt, W.I., S.B. Turk, and E. D. Wilson. 2006. Minimum size at maturation in the Mud Snake, *Farancia abacura* (Serpentes: Colubridae) from the southeastern United States. *Texas Journal of Science* 58(3):263-270.

Lutterschmidt, W.I. and D.K. Wasko. 2006. Seasonal activity, relative abundance, and size-class structure of the American Alligator (*Alligator mississippiensis*) in a highly disturbed inland lake. *Southwestern Naturalist* 51(3):346-351.

Williams, J.K. and **W.I. Lutterschmidt**. 2006. Species-area relationships indicate large-scale data gaps in herbarium collections. *Lundellia* 9:41-50.

Lutterschmidt, W.I., E.D. Roth, K.G. Wunch, E. Levin, and L.H. James. 2007. Bacterial microflora of the anterior digestive tract of two *Agkistrodon* species: additional evidence for food partitioning? *Herpetological Review* 38(1):33-35.

Lutterschmidt, W.I., J.F. Schaefer, R.A. Fiorillo. 2007. The ecological significance of Helminth endoparasites on the physiological performance of two sympatric fishes. *Journal of Comparative Parasitology* 74(2):194-203.

Smith, A.J. , T.J. Cook, and **W.I. Lutterschmidt**. 2007. Effects of temperature on the development of *Gregarina cubensis* (Apicomplexa: Eugregarinida) parasitizing *Blaberus discoidalis* (Blattaria: Blaberidae). *Journal of Parasitology* 93(3):583-588.

Millican, D.S. and **W.I. Lutterschmidt**. 2007. Comparative seasonal observations of soil temperature and moisture and the occurrence of earthworms inhabiting prairie and deciduous woodland sites. *Southwestern Naturalists* 52(4):468-474.

Lutterschmidt, W.I., S.A. Escobar, and E.D. Wilson. 2007. Multivariate analyses of shell morphology in putative hybrid box turtles. *Southeastern Naturalist* 6(4):571-576.

Wilson, C., K. Nungaray, M. Garza, J. Raska, M. Kercher, **W.I. Lutterschmidt**. 2008. Sit down and stay here! Transport response elicitation modulates subsequent activity in rat pups. *Behavioral Processes* 77(1):131-134.

Lutterschmidt, W.I., D.I. Lutterschmidt, R.T. Mason, H.K. Reinert. 2009. Seasonal variation in hormonal responses of timber rattlesnakes (*Crotalus horridus*) to reproductive and environmental stressors. *Comparative Physiology B* 179(6):747-757.

Croes, R.Z.C., H.K. Reinert, L.M. Bushar, R.A. Odum and **W.I. Lutterschmidt**. 2009. Snakes of Aruba. Special Publication: Texas Research Institute for Environmental Studies. Sam Houston Press, Sam Houston State University, Texas. Pp. 1-6.

Buchman, A.B., R. Deaton, C.P. Randle, T. Brummel, E.D. Wilson and **W.I. Lutterschmidt**. 2009. Isolation and characterization of polymorphic microsatellite loci for the three-toed box turtle (*Terrapene carolina triunguis*) and cross-amplification in other *Terrapene* species.

Molecular Ecology Resources 9(4):1169-1171.

Cureton II, J.C., A.B. Buchman, C.P. Randle, **W.I. Lutterschmidt**, and R. Deaton. 2009. Characterization of ten novel microsatellite loci for the threatened Ornate Box Turtle, *Terrapene ornata*. Conservation Genetics Resources 1(1):141-143.

Cureton II, J.C., A.B. Buchman, C.P. Randle, **W.I. Lutterschmidt**, and R. Deaton. (In press). Development and cross-amplification of nine novel *Gambusia geiseri* microsatellite loci in *G. clark-hubbsi* and the endangered *G. nobilis*. Conservation Genetics Resources 2(?):?-?. manuscript number, COGR328

Lutterschmidt, W.I., James C. Cureton II, and Anne R Gaillard. (In Press). "Quick" DNA extraction from claw clippings of both fresh and formalin-fixed box turtle (*Terrapene ornata*). Herpetological Review.

Lutterschmidt, W.I., H.K. Reinert, and L.M. Bushar. Thermal constraints of preferred microhabitat: sacrificing optimal body temperature for patch quality (In Preparation).

Lutterschmidt, W.I. and H.K. Reinert. Standard versus "definitive" operative temperatures: support for water-filled biophysical models in modeling the thermal inertia of large-bodied reptiles. (In Preparation)

Lutterschmidt, W.I., T. Roth, and C. Wilson. Melatonin and suppression of the transport response in rat pups. Pharmacology Biochemistry and Behavior (In Preparation).

Lutterschmidt, W.I. Seasonal occurrence of terrestrial activity in the fully aquatic snake, *Farancia abacura* (Colubridae), in southeastern Louisiana. Southeastern Naturalist (In Preparation).

Books and Book Chapters **Lutterschmidt, W.I.** and D.I. Lutterschmidt. 2008. Laboratory Exercises in Human Physiology: A Clinical and Experimental Approach. McGraw-Hill. Pp. 224.

Lutterschmidt, W.I. and D.I. Lutterschmidt. 2009. Laboratory Exercises in Human Physiology: A Clinical and Experimental Approach, 2nd Edition. McGraw-Hill. Pp. 224.

Beitinger T.L. and **W.I. Lutterschmidt**. In Press. Thermal Tolerance *in* Encyclopedia of Fish Physiology. Elsevier Publishing. Pp. 3000.

Research Notes: (Techniques, Natural History, and Biogeography) **Lutterschmidt, W.I.** 1991. An improved laboratory apparatus for examining thermal preferences of reptiles. Herpetological Review 22(3):92-94.

Lutterschmidt, W.I. and J. F. Schaefer. 1996. Mist netting snakes: a technique borrowed from ornithology for sampling semi-aquatic snake populations. Herpetological Review 27(3):131-132.

Lutterschmidt, W.I. 1992. *Crotalus horridus*, (Canebrake Rattlesnake): Geographic distribution. Herpetological Review 23(1):26.

Lutterschmidt, W.I., G.A. Marvin, and V.H. Hutchison. 1996. *Rana catesbeiana* (Bullfrog): Record body size. Herpetological Review 27(2):74-75.

Lutterschmidt, W.I., R.L. Nydam, and H.W. Greene. 1996. County record for the woodland vole, *Microtus pinetorum* (Rodentia: Muridae), LeFlore County, Oklahoma with natural history notes on a snake predator. *Proceedings of the Oklahoma Academy of Sciences* 76:93-94.

Lutterschmidt, W.I. and M.L. Thies. 1999. *Syrrophus cystignathoides* (Rio Grande Chirping Frog). *Herpetological Review* 30(1):51.

Lutterschmidt, W.I., J.G. Hilliard, and T.R. Lange. 1999. *Eurycea tynereensis* (Oklahoma Salamander). *Herpetological Review* 30(4):230.

Lutterschmidt, W.I. 2001. *Eurycea tynereensis* (Oklahoma Salamander) A Correction. *Herpetological Review* 32(2):111.

Lutterschmidt, D.I. and **W.I. Lutterschmidt**. 2002. Modifications for the successful use of thermocouples in studies of thermoregulation. *Herpetological Review* 33(2):110-112.

Roth, E.D., W.D.W. Ginn, L.J. Vitt, and **W.I. Lutterschmidt**. 2003. *Agkistrodon piscivorus leucostoma* (Western Cottonmouth) Diet. *Herpetological Review* 34(1):60.

Technical Reports

Thies, M. L., with T. Brummel, J. Cook, T. Cook, A. Gaillard, **W.I. Lutterschmidt**, D. Neudorf, J.K. Williams, and K. Wunch. 2006. Vector-borne diseases. Final Report submitted 15 September 2006 to the Brooks City-Base Foundation, San Antonio, TX. Pp. 115.

INVITED SEMINARS AND SYMPOSIA Lutterschmidt, W.I. 1997. Professional aspects of graduate school: the wheres, whens, and whys. Department of Biological Sciences, Southwestern Oklahoma State University, Oklahoma.

Lutterschmidt, W.I. and V.H. Hutchison. 1997. Thermal tolerance, geographic range, and Liebig's Law: does physiological plasticity matter? *In Symposium*. Comparisons and current uses of phylogenetic approaches to ichthyology and herpetology. American Society of Ichthyologists and Herpetologists, University of Washington, Seattle, Washington.

Lutterschmidt, W.I. 1997. Comparative physiology of metabolic plasticity in snakes: a macroecological study. *In Symposium*. Snake ecology for the 21st century. Texas Herpetological Society, University of Texas, Tyler, Texas.

Lutterschmidt, W.I. 1997. Comparative physiology of thermal tolerance and metabolic rate in ectothermic vertebrates: Correlates of physiological plasticity and macroecology. Invited seminars for assistant professor positions at: (1) University of Indiana, Kokomo, (2) Bridgewater State University, (3) State University of New York, Potsdam, (4) Clarion University, (5) Sam Houston State University, (6) Concordia College.

Lutterschmidt, W.I. 1999. Some Like it Hot: The Use of High-Temperature Tolerance and Temperature-Dependent Metabolic Rate to Investigate Macroecological Patterns. Department of Biological Sciences, Southeastern Louisiana University, Hammond, Louisiana.

Lutterschmidt, W.I. 1999. Ecology and Physiology of the Endangered Aruba Island Rattlesnake. Department of Biology and Mathematics. University of Texas, Tyler. (Nov. 8)

- Lutterschmidt, W.I. 2000. Where have all the mammals gone? The study and conservation of the Aruba Island Rattlesnake, *Crotalus unicolor*. Mississippi State University, Starkville, Mississippi. (Feb. 25)
- Lutterschmidt, W.I. 2000. The Physiological Ecology and Conservation of a Desert Snake, *Crotalus unicolor*. Stephen F. Austin State University, Nacogdoches, Texas. (Oct. 12)
- Lutterschmidt, W.I. 2000. Natural History of Aruba and Conservation of the Aruban Island Rattlesnake. National Audubon Society, Texas Chapter, Huntsville, Texas. (Oct. 19)
- Lutterschmidt, W.I. 2000. Natural History of Aruba with a Discussion of its Endemic Pitviper. Oregon State University, Corvallis, Oregon. (Nov. 20).
- Lutterschmidt, W.I. and D.S. Millican. 2001. Urbanization effects and habitat fragmentation on biodiversity: Part I - The experiment, sampling methodology, and modeling. SERDP's Ecosystem Management Project Research Coordination Meeting. Columbus, Georgia. (Nov. 5-6).
- Millican, D.S. and W.I. Lutterschmidt. 2001. Urbanization Effects and Habitat Fragmentation on Biodiversity: Part II - Scale of assessment. SERDP's Ecosystem Management Project Research Coordination Meeting. Columbus, Georgia. (Nov. 5-6).
- Lutterschmidt, W.I. and D.S. Millican. 2002. Ecosystem dynamics and the use of the index of biological integrity in evaluating urban disturbance. Construction Engineering Research Laboratory Project Summary Meeting. (14-15 February 2002).
- Lutterschmidt, W.I. 2003. A survey for the common amphibians and reptiles of Camp Swift, Bastrop County, Texas. Texas National Guard Natural Resources Conference. Austin, Texas. (15-16 August 2003).
- Lutterschmidt, W.I. 2004. Surgical methods for the implantation of radio-transmitters in venomous snakes. Shorter College. Rome, Georgia. (4 June 2004).
- Lutterschmidt, W.I. 2005. Professional aspects and the academic role of a university professor in the sciences. Annual Gulf Coast Intercollegiate Honors Council. Huntsville, Texas. (25 February 2005).
- Lutterschmidt, W.I. 2006. Texas amphibians and reptiles: identifying the good, the bad, and the ugly. University Women's Association. Huntsville, Texas. (14 February 2006).
- Lutterschmidt, W.I. 2006. Another species invades Aruba: Conservation Concerns for the Aruba Island Rattlesnake (*Crotalus unicolor*). Department of Chemistry, McNeese University. (8 November 2006).
- Lutterschmidt, W.I. 2006. Another species invades Aruba: Conservation Concerns for the Aruba Island Rattlesnake (*Crotalus unicolor*). Department of Biological Sciences, Southeastern Louisiana University. (10 November 2006).
- Lutterschmidt, W.I. 2006. Another species invades Aruba: Conservation Concerns for the Aruba Island Rattlesnake (*Crotalus unicolor*). Department of Biological Sciences, University of Louisiana - Monroe. (23 February 2006).
- Lutterschmidt, W.I. and D.L. Neudorf. 2007. Mentoring in an REU program: Introducing students to the professional responsibilities of biologists. National Science Foundation, Washington, D.C. (8-9 March 2007).

- Lutterschmidt, W.I. 2007. Commonly Encountered Amphibians and Reptiles of the Sam Houston State University Campus - Notes on the identification of venomous snake and first aid. Sam Houston State University Safety Office and Physical Plant. (16 April 2007).
- Williams, J. K., A. Gaillard and W. I. Lutterschmidt. 2007. Effects of Invasive Plants on the Biodiversity of Fish Assemblages with the Rio Grande. Invasive Plants of Texas Conference. Lady Bird Wildflower Research Center. Austin, Texas. (15 November 2007).
- Lutterschmidt, W.I. 2009. LUNCHEON KEY NOTE ADDRESS for Comparative Biology: From Past to Present. Phylogenetics Symposium. Lone Star College - North Harris. Houston, Texas. (3 April 2009).
- Lutterschmidt, W.I. and M.A. Miller. 2009. An Ecophysiological Investigation of Cutaneous Water Loss in two Sympatric Snakes Species. Department of Biology, San Angelo State University. San Angelo, Texas (16 September 2009). Sponsored by Tri-Beta Biological Honor Society.

PRESENTATIONS Lutterschmidt, W.I. and H.K. Reinert. 1989. The effect of ingested transmitters upon the temperature preference of the water snake, *Nerodia s. sipedon*. Pennsylvania Academy of Science, 64th Annual Meeting.

- Lutterschmidt, W.I. and H.K. Reinert. 1989. The effect of ingested transmitters upon the temperature preference of the water snake, *Nerodia s. sipedon*. Joint meeting of SSAR, HL, and ASIH. Ann Arbor, MI.
- Lutterschmidt, W.I. 1990. The effect of surgically implanted transmitters upon the sprint speed of the checkered garter snake, *Thamnophis marcianus*. Joint meeting of SSAR and HL. New Orleans, LA.
- Lutterschmidt, W.I. 1990. The ecology and thermal biology of the timber rattlesnake, *Crotalus horridus*. Lehigh Valley Herpetological Society. Allentown, PA.
- Lutterschmidt, W.I. 1991. The use of road cruising for possible determination of habitat selection and activity patterns of snakes in Southern Louisiana. Joint meeting of SSAR and HL. Pennsylvania State University, University Park, PA.
- Lutterschmidt, W.I. 1992. The thermoregulatory constraints of the timber rattlesnake, *Crotalus horridus*, within preferred microhabitats. Society for the Study of Reptiles and Amphibians. University of Texas. El Paso, TX.
- Lutterschmidt, W.I., G.A. Marvin, and V.H. Hutchison. 1994. Alarm response by a plethodontid salamander (*Desmognathus ochrophaeus*): Conspecific and heterospecific "Schreckstoff". Joint meeting of SSAR and HL. University of Georgia. Athens, GA.
- Lienesch, P.W., W.I. Lutterschmidt, and J.F. Schaefer. 1996. Long-term changes in the fish assemblage of a small stream isolated by a reservoir. Southwestern Association of Naturalists, 43rd Annual Meeting. University of Texas. McAllen, Texas.
- Lutterschmidt, W.I. and V.H. Hutchison. 1996. Measures of thermal tolerance in Oklahoma fishes: A statistical comparison of variability in the endpoints loss of righting response and onset of opercular spasms. Southwestern Association of Naturalists, 43rd Annual Meeting. University of Texas. McAllen, Texas.

- Schaefer, J.F., W.I. Lutterschmidt, and L.G. Hill. 1996. Stream microhabitat use by two Centrarchids (*Lepomis megalotis* and *Lepomis macrochirus*). Southwestern Association of Naturalists, 43rd Annual Meeting. University of Texas. McAllen, Texas.
- Lutterschmidt, D.I. and W.I. Lutterschmidt. 1996. Efectos de la Melatonina y Clorpromazina en la Selección Térmica en *Pituophis melanoleucus*. IV Reunión Nacional de Herpetológica. Cuernavaca, Morelos, Mexico.
- Lutterschmidt, W.I. and R.D. Durtsche. 1997. Thermal physiology and metabolic capacities: answers to behavioral and ecological observations of a desert dwelling lizard *Cophosaurus texanus*. Southwestern Association of Naturalists, 44th Annual Meeting. University of Arkansas. Fayetteville, Arkansas.
- Lutterschmidt, W.I. 1998. (WILKS AWARD FINALIST) Comparative physiology of metabolic rate and thermal tolerance: physiological parameters for investigating macroecological patterns. Southwestern Association of Naturalists, 45th Annual Meeting. University of New Mexico. Albuquerque, New Mexico.
- Lutterschmidt, W.I., D.I. Lutterschmidt, C.R. Tracy, and V.H. Hutchison. 1998. The influence of melatonin and chlorpromazine on the preferred body temperature of the bull snake, *Pituophis melanoleucus*, with a time course analyses. Southwestern Association of Naturalists, 45th Annual Meeting. University of New Mexico. Albuquerque, New Mexico.
- Lutterschmidt, W.I. 1998. Comparative physiology of metabolic rate and thermal tolerance: physiological parameters for investigating macroecological patterns. American Society of Ichthyologists and Herpetologists', 78th Annual Meeting, Society for the Study of Amphibians and Reptiles, 41st Annual Meeting, and Herpetologists League 46th Annual Meeting. University of Guelph. Ontario, Canada.
- Lutterschmidt W.I., J.F. Schaefer, and R.A. Fiorillo. 1999. Effect of endo-parasites on the physiological performance of the sympatric centrarchid species, *Lepomis megalotis* and *Lepomis macrochirus*. Southwestern Association of Naturalists, 46th Annual Meeting. Universidad Autonoma de Nuevo Leon. Monterrey, Nuevo Leon, Mexico.
- Lutterschmidt, W.I. and R.D. Durtsche. 1999. Thermal physiology and metabolic capacities: answers to behavioral and ecological observations of a desert dwelling lizard *Cophosaurus texanus*. Southwestern Association of Naturalists, 46th Annual Meeting. Universidad Autonoma de Nuevo Leon. Monterrey, Nuevo Leon, Mexico.
- Lutterschmidt, W.I., G.M. Sanford, and V.H. Hutchison. 1999. Macroecological inferences and the comparative phylogenetic method, part I: a comparative physiological investigation. Joint meetings of American Society of Ichthyologists and Herpetologists, Herpetologists' League, and Society for the Study of Amphibians and Reptiles. Penn State University. State College, Pennsylvania.
- Sanford, G.M. and W.I. Lutterschmidt. 1999. Macroecological inferences and the comparative phylogenetic method, part II: a discussion of correlated evolution and its mechanisms. Joint meetings of American Society of Ichthyologists and Herpetologists, Herpetologists' League, and Society for the Study of Amphibians and Reptiles. Penn State University. State College, Pennsylvania.

- Lutterschmidt, D.I., W.I. Lutterschmidt, and V.H. Hutchison. 1999. The hormonal control of metabolic rate and preferred body temperature by melatonin, thyroxine, and triiodothyronine in the snakes *Pituophis melanoleucus* and *Boaedon fuliginosus*. Penn State University, State College, Pennsylvania. Joint meetings of American Society of Ichthyologists and Herpetologists, Herpetologists' League, and Society for the Study of Amphibians and Reptiles. Penn State University. State College, Pennsylvania.
- Sanford, G.M., W.I. Lutterschmidt, and V.H. Hutchison. 1999. The Comparative Method in Biology: A Historical Review for its Methodological and Conceptual Change. Annual Meeting for the Society for Literature and Science. University of Oklahoma. Norman, Oklahoma.
- Lancaster, L.D. and W.I. Lutterschmidt. 2000. Correlates between metabolic rate and microhabitat use in two sympatric species of *Lepomis*. 47th Annual Meeting of the Southwestern Association of Naturalists. University of North Texas. (April 20-22).
- Millican, D.S. and W.I. Lutterschmidt. 2000. Observations of anecic and putative endogeic earthworm populations at fallow sites in Walker County, Texas. 47th Annual Meeting of the Southwestern Association of Naturalists. University of North Texas. (April 20-22).
- Dent, L. and W.I. Lutterschmidt. 2001. Effects of acclimation temperature on the standard metabolic rate and thermal tolerance of sunfishes. South-central regional meeting of Tri-Beta National Biology Honors Society. University of Oklahoma Biological Station, Lake Texoma. (April 6-8, 2001).
- Millican, D.S. and W.I. Lutterschmidt. 2001. Measurement of population dynamics and drought tolerance as indicators of earthworm distributions in fallow fields. South-central regional meeting of Tri-Beta National Biology Honors Society. University of Oklahoma Biological Station, Lake Texoma. (April 6-8, 2001).
- Dent, L. and W.I. Lutterschmidt. 2001. The comparative thermal physiology of two sympatric centrarchids with a discussion of preferential microhabitat utilization. 48th Annual Meeting of the Southwestern Association of Naturalists. Fort Hayes State University. (April 18-21, 2001).
- Millican, D.S. and W.I. Lutterschmidt. 2001. Does soil microclimate limit the distribution of exotic earthworms in fallow fields of Walker County, Texas? 48th Annual Meeting of the Southwestern Association of Naturalists. Fort Hayes State University. (April 18-21, 2001).
- Lutterschmidt, W.I. and D.S. Millican. 2001. Urbanization effects and habitat fragmentation on biodiversity: Part I - The experiment, sampling methodology, and modeling. SERDP's Ecosystem Management Project Research Coordination Meeting. Columbus, Georgia. (5-6 November 2001).
- Millican, D.S. and W.I. Lutterschmidt. 2001. Urbanization effects and habitat fragmentation on biodiversity: Part II - Scale of assessment. Columbus, Georgia. (5-6 November 2001).
- Lutterschmidt, W.I., D.S. Millican, L. Dent, D.K. Wasko, and B. Deal. 2002. Urbanization dynamics and the index of biological integrity: a discussion of spatial scales in evaluating urban disturbance. 49th Annual Meeting of the Southwestern Association of Naturalists. Cuernavaca, Mexico. (25-27 April 2002).
- Lutterschmidt, W.I. and D.K. Wasko. 2002. Seasonal activity, relative abundance, and population structure of the American alligator (*Alligator mississippiensis*) in a highly-disturbed inland lake. 49th Annual Meeting of the Southwestern Association of Naturalists. Cuernavaca,

Mexico. (25-27 April 2002).

Millican, D.S. and W.I. Lutterschmidt. 2002. Temperature and moisture relations of endemic and exotic earthworms inhabiting unmanaged sites in Southeast Texas. 49th Annual Meeting of the Southwestern Association of Naturalists. Cuernavaca, Mexico. (25-27 April 2002).

Wasko, D.K. and W.I. Lutterschmidt. 2002. Microhabitat specificity and seasonal activity of a herpetofaunal community in east Texas. 49th Annual Meeting of the Southwestern Association of Naturalists. Cuernavaca, Mexico. (25-27 April 2002).

Welch, S., L. Dent, and W.I. Lutterschmidt. 2002. Behavioral responses of juvenile tarpon (*megalops atlanticus*) to hypoxic conditions. 49th Annual Meeting of the Southwestern Association of Naturalists. Cuernavaca, Mexico. (25-27 April 2002).

Lutterschmidt, D.I., W.I. Lutterschmidt, and V.H. Hutchison. 2002. Melatonin's role in the thermoregulation of ectothermic vertebrates. 6th Annual Meeting of the Society for Behavioral Neuroendocrinology. Amherst, Massachusetts. (25-29 June 2002).

Millican, D.S., W.I. Lutterschmidt, and B. Deal. 2002. Physiological and behavioral sensitivity to environmental stressors measured by changes in fish guild structure in urbanized streams. The American Physiological Society Meeting - The Power of Comparative Physiology: Evolution, Integration, and Application. San Diego, California. (24-28 August 2002). [Poster Presentation] **Published Abstract: The Physiologist 45(4):373; August 2002.**

Lutterschmidt, W.I. and G.M. Sanford. 2002. A discussion of the "Comparative Method" and the mechanisms of correlated evolution. The American Physiological Society Meeting - The Power of Comparative Physiology: Evolution, Integration, and Application. San Diego, California. (24-28 August 2002). [Poster Presentation] **Published Abstract: The Physiologist 45(4):344; August 2002.**

Lutterschmidt, W.I., D.S. Millican, and B. Deal. 2002. A discussion of biological integrity in evaluating the impacts of urban development and changes in land use. 56th Annual Conference of Southeastern Association of Fish and Wildlife Agencies. Baltimore, Maryland. (26-30 October 2002). [Poster Presentation]

Turk, S.B., E.D. Wilson, and W.I. Lutterschmidt. 2003. Seasonal reproduction and natural history of the mud snake, *Farancia abacura*. 50th Annual Meeting of the Southwestern Association of Naturalists. Norman, Oklahoma. (17-19 April 2003).

D.S. Millican and W.I. Lutterschmidt. 2003. Assessment of urban landscape impacts on stream fish assemblages. 50th Annual Meeting of the Southwestern Association of Naturalists. Norman, Oklahoma. (17-19 April 2003).

Anderson and W.I. Lutterschmidt. 2003. Helminth community structure of two *Lepomis* species (Osteichthyes: Centrarchidae) from an urban watershed. 50th Annual Meeting of the Southwestern Association of Naturalists. Norman, Oklahoma. (17-19 April 2003).

Anderson and W.I. Lutterschmidt. 2003. Urbanization and helminth prevalence in the fishes *Lepomis macrochirus* and *L. auritus* (Centrarchidae: Perciformes) from the Bull and Upatoi Creek watershed in Columbus, Georgia. 36th Annual meeting of Southwestern Association of Parasitologists. University of Oklahoma Biological Station, Kingston, Oklahoma. (24-26 April 2003).

Wasko, Dennis K. and Lutterschmidt, William I. 2003. Assemblage structure and seasonal activity of a herpetofaunal community in eastern Texas. 2003 Annual Meeting of the American Association of Ichthyologists and Herpetologists. Manaus, Brazil. (26 June - 1 July 2003).

- Lutterschmidt, W.I., T.L. Roth, and C. Wilson. 2004. Melatonin and suppression of the transport response in rat pups. 2004 Annual Meeting of the Society for Integrative and Comparative Biology. New Orleans Marriott, New Orleans, Louisiana. (5-9 January 2004).
- Lutterschmidt, W.I. 2004. Post-prandial thermophily in a fossorial snake? 51st Annual Meeting of the Southwestern Association of Naturalists. San Antonio, Texas. (15-17 April 2004).
- Roth, E.D., W.I. Lutterschmidt and D.A. Wilson. 2004. Cottonmouth (*Agkistrodon piscivorus*) neuro-ecology : An integrative approach to examining patterns of spatial use. Snake Ecology Conference. Carbondale, Illinois. (23-25 May 2004).
- Cook, T.J., M.D. Becker, A. Kowalski, W.I. Lutterschmidt. 2004. Effects of parasites on thermal tolerance of *Lepomis macrochirus*. Southwestern Association of Parasitologists. University of Oklahoma Biological Station, Oklahoma. (April 2004).
- Lutterschmidt, W.I. and D.L. Neudorf. 2004. A Research Experience for Undergraduates (REU) in Field Biology at Sam Houston State University. H-LSAMP 4th Annual Undergraduate Research Conference. (1-3 October 2004).
- Lutterschmidt, W.I. 2005. Post-prandial thermophily in a fossorial snake? 2005 Annual Meeting of the Society for Integrative and Comparative Biology. Town and Country Resort and Conference Center, San Diego, California. (4-8 January 2005).
- Williams, J.K., W.I. Lutterschmidt, and A. Debelica. 2005. Determining large scale data gaps in museum collections using species area relationships. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, Texas. (14-16 April 2005).
- Escobar, S.A., E.D. Wilson, W.I. Lutterschmidt, and G. Etheredge. 2005. A morphometric analysis of hybrid box turtles from east Texas with notes on early reproduction. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, Texas. (14-16 April 2005).
- Williams, J.K., W.I. Lutterschmidt, and A. Debelica. 2005. Determining large scale data gaps in herbarium collections using species area relationships. 2005 Annual Meeting of the American Society of Plant Taxonomists. Austin, Texas. (13-17 August 2005).
- Williams, J.K. and W.I. Lutterschmidt. 2006. Modeling the distribution and densities of the nonnative flora of Texas using herbaria records and GIS. 53rd Annual Meeting of the Southwestern Association of Naturalists. Colima, Mexico. (13-15 April 2006).
- Lutterschmidt, W.I., K.W. Luce, S.D. Koether, and J.K. Williams. 2006. Land-use practices along the Rio Bravo (Rio Grande) and their influences on vegetative and ichthyofaunal communities. 53rd Annual Meeting of the Southwestern Association of Naturalists. Colima, Mexico. (13-15 April 2006).
- Fontenot, C.L., W.I. Lutterschmidt, and B.I. Crother. 2006. Snake assemblage comparisons between two surveys done 13 year apart in southeast Louisiana. 2006 Joint Meetings of Ichthyologists and Herpetologists - ASIH, HL, SSAR. New Orleans, Louisiana. (12-17 July 2006).
- Lutterschmidt, W.I. and J.K. Williams. 2007. Vegetation disturbance, invasive species and

agriculture in the Rio Grande watershed. 2007 Joint Rio Grande Basin Initiatives (RGBI) Annual Conference. South Padre Island, Texas. (14-17 May 2007).

Lutterschmidt, W.I. and D.I. Lutterschmidt. 2007. Tips and tools for the experimental approach to laboratory instruction in human physiology. 21st Annual Meeting of the Human Anatomy and Physiology Society. Miramar College, San Diego, California. (26-30 May 2007).

Buchman, A.B., R.R. Deaton, T. Brummel, E.D. Wilson, W.I. Lutterschmidt. 2008. Amolecular analysis of putative hybridization between two box turtle species. 2008 Annual Meeting of the Society for Integrative and Comparative Biology. San Antonio Marriott Rivercenter, San Antonio, Texas. (2-6 January 2008).

Lutterschmidt, W.I., D.I. Lutterschmidt, R.T. Mason, and H.K. Reinert. 2008. Seasonal variation in the hormonal responses of timber rattlesnakes (*Crotalus horridus*) to reproductive and environmental stressors. 2008 Annual Meeting of the Society for Integrative and Comparative Biology. San Antonio Marriott Rivercenter, San Antonio, Texas. (2-6 January 2008).

Williams, J.K. and W.I. Lutterschmidt. 2008. Determining data gaps in the herbaria collection of Texas using species area relationships. Texas Wildlife Diversity Conference. Houston Zoo, Houston, Texas.. (17-19 January 2008).

Lutterschmidt, W.I. 2008. A roundtable discussion of educational practices and philosophy in biology. Pearson Science Education Workshop. Houston Museum of Natural History, Houston, Texas. (1 February 2008).

Lutterschmidt, W.I., D.I. Lutterschmidt, R.T. Mason, and H.K. Reinert. 2008. Hormonal responses of timber rattlesnakes (*Crotalus horridus*) to reproductive and environmental stressors. 111th Annual Meeting of the Texas Academy of Science. Texas A&M University - Corpus Christi. Corpus Christi, Texas. (6-8 March 2008).

Lutterschmidt, W.I. and D.I. Lutterschmidt. 2008. An experimental approach and the use of computer simulation in laboratory instruction: Human physiology students' friend or foe? 22nd Annual Meeting of the Human Anatomy and Physiology Society. Louisiana State University Health Sciences Center. New Orleans, Louisiana. (24-29 May 2008).

Lutterschmidt, W.I., E.D. Wilson, H.K. Reinert, M.A. Miller, R.A.. Odum. 2008. Seasonal Timing of Reproduction and Follicular Development of the Recently Introduced Boa constrictor on Aruba, Dutch West Indies. Oranjestad, Aruba. (25-29 August 2008).

Miller, M and W.I. Lutterschmidt. 2009. Comparative Skin Permeability in Two Congeneric and Sympatric Pitvipers: Does Physiology Influence Habitat Selection? Joint Meeting of Ichthyologists and Herpetologists, ASIH, SSAR, and HL. Portland, Oregon. (22-27 July 2009).

Alford, J.G., Matlock R. and W.I. Lutterschmidt. 2009. Examples of Spatial Modeling of Dispersal in Mathematical Ecology. The 89th Annual Meeting of the Texas Section of the Mathematical Association of America, University of North Texas, Denton, Texas. (16-18 April 2009).

Miller, M and W.I. Lutterschmidt. 2009. Comparative Physiological Ecology of Cutaneous Water Loss in Two Congeneric and Sympatric Pitvipers. 2009 Sigma Xi Annual Meeting. Woodlands, Texas. (12-15 November 2009).

Gao, S., W.I. Lutterschmidt, and D.I. Lutterschmidt. 2010. Diel variation in standard metabolic rate: mediation by photoperiod cues and melatonin? 2010 Annual Meeting of the Society for Integrative and Comparative Biology. Seattle Sheraton Hotel and Washington State Convention and Trade Center, Seattle, Washington. (3-7 January 2010).

Alford, J.G. and W.I. Lutterschmidt. 2010. Modeling the movements of a thermoregulating timber rattlesnake. Joint Mathematics Meetings for the 116th Annual Meeting of the American Mathematical Society and 93rd Meeting of the Mathematical Association of America. San Francisco, California. (13–16 January 2010).

Cureton II, J.C., W.I. Lutterschmidt, C.P. Randle, and R. Deaton. Assessing the causes and impact of road mortality on Turtle populations in an urban-prone area. 113th Annual Meeting of the Texas Academy of Science. Tarleton State University. Stevenville, Texas. (5-6 March 2010).

REFERENCES

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