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## **CURRICULUM VITAE**

Spring 2008

# **WILLIAM I. LUTTERSCHMIDT**

Sam Houston State University  
Department of Biological Sciences  
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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 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)

### **Instructor:**

Department of Zoology, University of Oklahoma, Norman, Oklahoma (Spring and Summer  
1998)

### **Special Adjunct Faculty:**

Department of Zoology, University of Oklahoma, Norman, Oklahoma. (Fall 2000 - Spring  
2007)

### **Current Positions:**

**Assistant Professor.** Department of Biological Sciences, Sam Houston State University,  
Huntsville, Texas. (Fall 1998)

**Associate Professor.** Department of Biological Sciences, Sam Houston State University,  
Huntsville, Texas. (Spring 2004)

**Director and Curator.** Sam Houston State Vertebrate Museum and the Natural History  
Education Program. (Summer 2000)

**Summer Faculty.** University of Oklahoma Biological Station, Lake Texoma, Oklahoma.  
(Summer 1999)

**Associate Editor.** *The Southwestern Naturalist* (Summer 2004)  
*Herpetologica* (Fall 2007)

## RESEARCH INTERESTS

Physiological Ecology and Comparative Physiology  
Physiological Plasticity of Temperature Dependent Rate Processes (Metabolism and Energetics)  
Evolutionary Ecology and the Comparative Phylogenetic Method  
Statistical Applications in Physiological Ecology and Biophysical Modeling

## 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, 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.  
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.

## 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.  
Mr. Sidney M. Anderson. December 2003. Helminth community structure in two Lepomid species (Osteichthyes: Centrarchidae) from an urban watershed.  
Ms. Anne B. Buchman. Population genetics of box turtles.  
Ms. Melissa Miller. Evaporative water loss in *Agkistrodon*.

### 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.  
Ms. Sara Beth Turk. May 2003. The seasonal timing of follicular development in the Mud Snake, *Farancia abacura*.  
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.

## UNIVERSITY OF OKLAHOMA (Thesis Committee)

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

## 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. 2004 - 2006. Research Experience For Undergraduates (REU) in experimental field biology at Sam Houston State University. National Science Foundation REU Program, (Award Number: DBI – 0649187). **\$215,000**

Total Grant Money Received: **\$1,052,000.00**

## **PROFESSIONAL EXPERIENCE**

### **TEACHING APPOINTMENTS:**

William Allen High School, Allentown, PA. Student teaching, Spring 1988.

Allentown Central Catholic High School, Allentown, PA. 1988-89.

Southeastern Louisiana University, Department of Biological Sciences, Hammond, LA.  
Teaching Assistantship, 1989-91.

Oklahoma Museum of Natural History, Norman, OK., 1992-96. Summer workshops.

University of Oklahoma, Department of Zoology, Norman, Oklahoma. Teaching Assistantship, 1992-1997. Taught Introductory Biology, Ecology, Vertebrate Physiology, and Comparative Vertebrate Anatomy.

**Instructor:** Human Physiology. Spring and Summer 1998.

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.

### **COURSE TAUGHT:**

Introductory Zoology  
Introductory Biology  
Ecology  
Herpetology  
Experimental Design  
Evolutionary Ecology  
Biometry (Biostatistics)

Comparative Vertebrate Physiology  
Human Physiology  
Anatomy and Physiology  
Comparative Vertebrate Anatomy  
Comparative Physiology  
Professional Aspects of Science

## **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  
Texas Academy of Sciences

## PROFESSIONAL ACTIVITIES

### Associate Editorships:

The Southwestern Naturalist  
Herpetologica

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.

## 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. Seasonal variation in hormonal responses of timber rattlesnakes (*Crotalus horridus*) to reproductive and environmental stressors. *Comparative Physiology B* (In 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., 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).

#### **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 tynerensis* (Oklahoma Salamander). *Herpetological Review* 30(4):230.
- Lutterschmidt, W.I.** 2001. *Eurycea tynerensis* (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.

#### **Books and Book Chapters**

- Lutterschmidt, W.I.** and D.I. Lutterschmidt. 2007. *Laboratory Exercises in Human Physiology: A Clinical and Experimental Approach*. McGraw-Hill. Pp. 224.
- Lutterschmidt, W.I.** and D.I. Lutterschmidt. 2007. *Laboratory Exercises in Human Physiology: A Clinical and Experimental Approach*, 2<sup>nd</sup> Edition. McGraw-Hill. Pp. 224.

#### **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.

## PRESENTATIONS

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