

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Malcolm L. McCallum

Current Position: *Associate Professor of Biology.*

Department of Biological Sciences, Texas A&M University – Texarkana

Mailing Address: 117 Linda Lane, Texarkana, TX 75501.

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Education:

Ph.D. in Environmental Sciences; Arkansas State University, State University. (Aug. 1999-Aug. 2003)

Dissertation title: Reproductive Ecology and Taxonomic Status of *Acris crepitans blanchardi* with additional investigations on the Hamilton-Zuk Hypothesis

M.S. in Environmental Biology; Eastern Illinois University, Charleston. (Jan. 1993-Dec. 1994)

Thesis title: Predator Deterrence in the Central Newt (*Notophthalmus viridescens louisianensis*) with notes on anti-predator strategies.

B.S. in Agriculture and Biological Sciences; Illinois State University, Normal. (Aug. 1987-May 1992)

PROFESSIONAL POSITIONS

*6 yrs of full-time university teaching experience since earning Ph.D. in 2003.

*5 yrs part-time college teaching experience prior to earning Ph.D. in 2003.

Associate Professor, 9-08 to present, Dept. of Biological Sciences, Texas A&M University –Texarkana

Assistant Professor, 8-06 to 9-08, Dept. of Biological Sciences, Texas A&M University –Texarkana

Interim Assistant Professor, 5-05 to 8-06, Dept. of Biological Sciences, Texas A&M University –Texarkana

Assistant Professor, 8-03 to 8-05. Department of Biological Sciences, Louisiana State University in Shreveport
(*Position was eliminated for budgetary reasons and was not a tenure decision*)

Research Fellow, 2003 to 2005. Red River Watershed Management Institute. Shreveport

Associate Affiliate Graduate Faculty, 8-04 to 8-06, Louisiana State University Shreveport Health Sciences Center

Temporary Instructor & Teaching Assistant, 8-99 to 5-03, Department of Biological Sciences, Department of Health and Physical Education. Arkansas State University, State University

Director of Grants and Research, 8-98 to 8-99, MidAmerica Aquacenter, St. Louis, MO

Adjunct Instructor at multiple institutions prior to entering Ph.D. program, 1995-1999.

TEACHING RESPONSIBILITIES AT TEXAS A&M-TEXARKANA

Ecology (undergraduate, 3 units, taught every fall)

Statistics (undergraduate-graduate [math department], 3 units, taught summer)

Environmental Physiology (undergraduate-graduate, 3 units, taught spring odd years)

Wildlife Ecology & Management (undergraduate-graduate, 3 units, taught summer even years)

Wildlife Research & Management Techniques (undergraduate-graduate, 3 units, taught summer even years)

Herpetology (undergraduate-graduate, 3 units, taught spring semester even years)

Landscape Ecology and GIS (undergraduate-graduate, 3 units, taught bi-annually)

Vertebrate Field Biology (undergraduate-graduate, 3 units, taught summer odd years)

Mammalogy (undergraduate-graduate, 3 units, taught fall semester odd years)

Ichthyology (undergraduate-graduate, 3 units, taught fall semester even years)

Cell Biology (undergraduate-graduate, 3 units, taught every fall)

Genetics (undergraduate, 3 units, taught annually)

Introduction to Forensic Science (undergraduate-graduate, 3 units, taught bi-annually)

Seminar in Biology (undergraduate, 1 unit, taught annually)

COURSES INSTRUCTED (1995-2006)

Wildlife Ecology & Management	Environmental Science	Animal Physiology	Human Anatomy
Wildlife Techniques	Landscape Ecology	Ichthyology	Cell Biology
Herpetology	Statistics (Math 453)	Anatomy & Phys. I & II	Genetics
Ecology & Conservation	Comparative Ethology	Comparative Anatomy	Freshman Biology
General Ecology	Human Physiology	Human Biology	Environmental Physiology
Vertebrate Field Biology	Forensic Science	Parasitology Lab	
Vertebrate Natural History	Vertebrate Histology	Principles of Health	
Ecotoxicology	Electron Microscopy	Earth Science	

RESEARCH ADVISEES

Previous Graduate Students

Eric Walsh, MSc (*Cum laude*, University of RI), CURRENTLY: Ph.D. Student Iowa State University.

Thesis Topic: The Red-Cockaded Woodpecker as an Umbrella Species for Herpetofauna.

Victor Bogosian, MSc (Ohio State Univ.), CURRENTLY: Ph.D. Student, Southern Illinois University-Carbondale.

Thesis Topic: Biotelemetry and thermal biology of alligator snapping turtles in native and non-native settings.

Undergraduate Research Students

Previous

Makenzie Matlock 2008. Effect of atrazine on sexual selection and reproduction in *Tenebrio molitor*.

Justin Treas 2008. Effect of atrazine on sexual selection and reproduction in *Tenebrio molitor*. (MS student, Texas Tech)

Barack Safi 2008. Diet habits of Barn Owls in the Mohave Desert near Kelso, California. (still at A&M-Tex)

Megan Conn 2008. Comparing current and paleontological rates of turtle extinction. (Now employed with the USACE)

Bridget Baker 2007. Age and growth in the Sequoyah Salamander. (Now employed in pharmaceutical sales)

Megan Conn 2007. Reproductive characteristics of the Kiamichi Shiner. (Now employed by USACE)

Gina Worley 2007. Characterization of Shad by-catch in a sports fishery in east Texas.

Robert Flowers 2007. Economic contingent valuation of a sports fishery in east Texas. (Now employed by USACE)

Stephen Sperry 2006. Reproductive ecology of the Squirrel Tree Frog from Texas. (Student at Baylor College of Dentistry)

Cassandra Banks 2006. Age structure and growth of Northern Cricket Frogs. (now with Texarkana Water & Utilities)

Beth Layman 2005 Age structure and growth of Wood Frogs from the Arkansas Ozarks. (MS Student, TAMU-Galveston)

Rebecca Mason 2005 Age structure and growth of Northern Cricket Frogs. (pharmacy technician)

Kelly Collins 2005 Use of bridges by bats in northeast Texas. (Environmental Specialist, NASA)

Myra Harris 2005 Age structure and growth of Redbacked Salamanders from Lake DeQueen, AR. (pharmacy tech.)

Tracey Venable 2005. A microcosm study of leaf litter effects on amphibian larvae. (pharmacy tech, Walgreens)

Misty Caple 2005 Epidemiology of Tuberculosis (MPH 2007. Univ. AR School of Public Health).

Jessica Rainey 2005 Humming bird food preference (*In Prep J Field Ornithology*) (Biology Teacher)

Bridget Baker 2005 Humming bird food preference (*In Prep J Field Ornithology*) (pharmaceuticals sales)

Belinda Ward 2005 Humming bird food preference (*In Prep J Field Ornithology*) (Biology Teacher)

Jessica Eaves 2005 Food Preference in Sibling Cottontails. (Biology Teacher)

James Earl Ray 2005 Road Mortality in *Bufo nebulifer* (*Published, Herpetological Review*)

Robin Menasco 2005 Atomic Absorption Spectroscopic Study of Heavy Metals in Bullfrogs

Hiren Patel 2005 Atomic Absorption Spectroscopic Study of Heavy Metals in Bullfrogs

Jason Waguespack 2005 Atomic Absorption Spectroscopic Study of Heavy Metals in Bullfrogs

Wendy Sanson, 2004. Endocrine Disruption in *Tenebrio molitor* (MS Student)

Lisa Jones. 2005. Antioxidants in Bullfrog Tadpoles (*In Press, J. Herpetology, Now in Medical School*)

Robert Neal, 2002. Tail-coiling in Ringneck Snakes (*Published Herpetological Natural History & Herp Review, MS Student ASU*)

Charles McDowell 2002 Illinois Chorus Frog Status (*Published Herpetol. Natural History, Herp. Rev., & SE Nat. MS Student ASU*)

Tracey Klotz, 2001-2002 Wood Frog Declines

Stacey Beharry, 2002 Mullerian mimicry between newts & leeches (*Published Southeastern Naturalist, MS Student*)

PUBLICATIONS (76 Published and In Press; 37 Full-Length; 39 Short Articles and Notes)

Full-Length Articles In Prep (9) Names in Bold are Student Coauthors.

54. McCallum, M.L., **J. Treas, M. Matlock, B. Safi**, J.L. McCallum. (*In Prep*). Endocrine disruption of sexual selection in *Tenebrio molitor*. *Ecology*

53. McCallum, M.L., **Baker, B., J. Raney, B. Ward**, and J.L. McCallum. (*In Prep*). Sucrose concentration preference in the Ruby-Throated Hummingbird. *Journal of Field Ornithology*.

52. McCallum, M.L. (*In Prep*). Questions in herpetology of high conservation policy relevance. *Herpetological Conservation and Biology*

51. McCallum, M.L., B.A. Wheeler, W. Moser, and S.E. Trauth. (*In Prep*). Feeding behavior and amphibian infestation by the leech *Deserobdella picta* (Verrill, 1872), (Hirundinea: Rhynchobdellida: Glossiphoniidae) from the eastern Arkansas Ozarks. *Southwestern Naturalist*

50. Trauth, S.E., M.L. McCallum and **J.R. Milanovich**. (*In Prep*). Sperm morphology and morphometrics in the ringed salamander, *Ambystoma annulatum* (Caudata: Ambystomatidae), using scanning electron microscopy. *Journal of the Arkansas Academy of Science*.

49. McCallum, M.L. and J.L. McCallum. (*In Prep*). Does body size reflect foraging ability in post-metamorphic Marine Toads? *Zoo Biology*

48. McCallum, M.L. and J.L. McCallum. (*In Prep*). When *Solenopsis* is away, the geckos will play: Ecological release of an exotic species upon removal of its invasive predator. *Biological Invasions*

47. McCallum, M.L. and S.E. Trauth. (*In Prep*). Can the Illinois chorus frog survive in Arkansas? A case study of a secretive species in need of protection. *Journal of Threatened Taxa*

46. McCallum, M.L. (*In Prep*). Assessing decline and extinction of turtles. *Biological Conservation*.

Full-Length Articles In Review (8) Names in Bold are Student Coauthors.

45. McCallum, M.L. (*In Review*) Orientation and directional escape by the Northern Cricket Frog (*Acris crepitans*) in response to a human predator. *Journal of Herpetology* 09-087
44. McCallum, M.L. (*In Review*). The tempo of amphibian declines and extinctions. *Journal of Threatened Taxa*. 17 manuscript pages. Manuscript #02225, mailing #904.
43. McCallum, M.L. (*In Review*). Future Climate Change Spells Catastrophe for the Northern Cricket Frog, *Acris blanchardi* (Amphibia, Anura, Hylidae). *Acta Herpetologica* MS #86 4(2) 2009
42. McCallum, M.L., **D.R. Swindle**, S.E. Trauth, and R. Buchanan. (*In Revision*). Systematic analysis of spermatozoal structure in six species of North American ranid frogs. *Zootaxa*
41. **Jordan, R.R., J.R. Milanovich**, M.L. McCallum, S.E. Trauth, and D.A. Saugey. (*In Review*). Homing and egg discrimination in the Western Slimy Salamander, *Plethodon albagula* (Caudata: Plethodontidae). *Herpetological Conservation and Biology*
40. McCallum, M.L., **C. Brooks, R. Mason**, and S.E. Trauth. (*In Review*). Is the Northern Cricket Frog (*Acris crepitans*) Semelparous? Growth, Reproduction and Skeletochronology Evidence Examined. *Current Zoology* #J9047
39. McCallum, M.L.. (*In Review*). Road mortality of turtles and Bullfrogs during a major flood. *Southeastern Naturalist*
38. McCallum, M.L., **E. Walsh, V. Bogosian**, S. Gabrey, and J.L. McCallum. (*In Review*). Herpetofaunal inventory of three northwestern Louisiana wildlife management areas. *Journal of the Arkansas Academy of Sciences*

Full-Length Articles In Press (1) Names in Bold are Student Coauthors.

37. **Jones, L., D.R. Gossett, M.L. McCallum, and S.W. Banks.** (*In Press*). The effect of paraquat on the antioxidant defense system of the American Bullfrog (*Rana catesbeiana*). *Journal of Herpetology* 07-243R

Full-Length Articles Published (36) Names in Bold are Student Coauthors.

2009 (1)

36. McCallum, M.L., J.L. McCallum, S.E. Trauth. 2009. Prediction of climate change impacts on the growth and size at maturity of Three-toed Box Turtles. *Amphibia-Reptilia* 30:259-264.

2008 (1)

35. McCallum, M.L., **S. Beharry** and S.E. Trauth. 2008. The Central Newt and Ozark Highlands Leech: Müllerian or Aggressive Mimics? *Southeastern Naturalist* 7(1):173-179.

2007 (2)

34. McCallum, M.L. 2007. Amphibian decline or extinction? Current declines dwarf background extinction rate. *Journal of Herpetology* 41(3):483-491.
33. McCallum, M.L. and S.E. Trauth. 2007. Physiological trade-offs between immunity and reproduction in the northern cricket frog (*Acris crepitans*). *Herpetologica* 63(3):269-274.

2006 (7)

32. McCallum, M.L. and S.E. Trauth. 2006. An Evaluation of the Subspecies *Acris crepitans blanchardi* (Anura, Hylidae). *Zootaxa* 1104(1):1-21.
31. McCallum, M.L. and J.L. McCallum. 2006. Publication Trends of Natural History and Field Studies in Herpetology. *Herpetological Conservation and Biology* 1(1):63-68.
30. McCallum, M.L., S.E. Trauth and **R.G. Neal**. 2006. Tail-coiling in Ringneck Snakes: Flash display or decoy? *Herpetological Natural History* 10(1):91-94.
29. McCallum, M.L., S.E. Trauth, **C.R. McDowell, R.G. Neal** and **T.L. Klotz**. 2006. Calling site characterization of the Illinois chorus frog (*Pseudacris streckeri illinoensis*) with additional notes on population size and breeding choruses. *Herpetological Natural History* 9(2):183-185.
28. Trauth, S.E., M.L. McCallum, **R. Konvalinka**, and D.A. Saugey. 2006. Brooding postures and nest site fidelity in the western slimy salamander, *Plethodon albagula* (Amphibia, Caudata, Plethodontidae), from an abandoned mine shaft in Arkansas. *Herpetological Natural History* 9(2):141-149.
27. McCallum, M.L. and J. Rayburn. 2006. A simple method for housing *Xenopus* during oviposition and obtaining eggs for use in FETAX. *Herpetological Review* 37(3):331-332.

2004 (2).

26. McCallum, M.L. and S.E. Trauth. 2004. Blanchard's Cricket Frog in Nebraska and South Dakota. *Prairie Naturalist* 36(2):129-135.

25. McCallum, M.L., S.E. Trauth, **M.N. Mary, C.R. McDowell**, and B.A. Wheeler. 2004. Fall breeding of the southern leopard frog (*Rana sphenoccephala*) in northeastern Arkansas. *Southeastern Naturalist* 3(3):401-408.

2003 (2).

24. McCallum, M.L. and S.E. Trauth. 2003. A 43-year museum study of Northern Cricket Frog (*Acris crepitans*) abnormalities in Arkansas: Upward trends and distributions. *Journal of Wildlife Diseases* 39(3):522-528.

23. McCallum, M.L., **R.G. Neal**, S.E. Trauth, and **V. Hoffman**. 2003. A herpetofaunal inventory of the Arkansas Post National Memorial, Arkansas County, Arkansas. *Journal of the Arkansas Academy of Science* 57:122-130.

2002 (3).

22. Wheeler, B.A., M.L. McCallum, and S.E. Trauth. 2002. Abnormalities in the Ozark Hellbender, *Cryptobranchus alleganiensis bishopi*. *Journal of the Arkansas Academy of Science* 56:250-252.

21. McCallum, M.L. and S.E. Trauth. 2002. Performance of wood frog (*Rana sylvatica*) tadpoles on three soybean meal – corn meal rations. *Podarcis* 3(3):78-85.

20. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2002. The frog box: A new bulk holding device for anurans. *Herpetological Review* 33(2):107-108.

2001 (2).

19. McCallum, M.L., and S.E. Trauth. 2001. Are tadpoles of the Illinois chorus frog (*Pseudacris streckeri illinoensis*) cannibalistic? *Transactions of the Illinois State Academy of Science* 94(3):171-178.

18. McCallum, M. L. 2001. The unken reflex in the eft (*Notophthalmus viridescens*): Warning for predators, or escape maneuver? *Bulletin of the Maryland Herpetological Society* 37(3):101-114.

2000 (3).

17. Trauth, S.E., M.L. McCallum, and M. E. Cartwright. 2000. Breeding Mortality in the wood frog, *Rana sylvatica* (Anura: Ranidae), from Northcentral Arkansas. *Journal of the Arkansas Academy of Science* 54:154-156.

16. McCallum, M.L., and S.E. Trauth. 2000. Curly-tail malformity in hatchlings of the alligator snapping turtle, *Macrolemys temminckii* (Testudines: Chelydridae), from Northeastern Arkansas. *Journal of the Arkansas Academy of Science* 54:150-152.

15. Trauth, S.E., M.L. McCallum, **B. Ball**, and **V. Hoffman**. 2000. *Plethodon caddoensis* (Caddo Mountain Salamander) and *Plethodon serratus* (Southern Redback Salamander). Nocturnal Climbing Activity. *Herpetological Review* 31:232-233

1999 (6).

14. McCallum, M.L. 1999. *Rana sphenoccephala* (southern leopard frog) malformities found in Illinois with behavioral notes. *Transactions of the Illinois State Academy of Science* 92:257-264.

13. Bouschard, L. & M.L. McCallum. 1999. Sustainable Ecosystems. Mid-America Aquacenter Publications. St. Louis, MO. 11 pages.

12. McCallum, M.L. 1999. General Zoology. City Colleges of Chicago. Chicago, IL

11. McCallum, M.L. 1999. Kemp's Ridley Sea Turtle Facts. Mid-America Aquacenter Publications. St. Louis, MO

10. McCallum, M.L. 1999. Human Structure and Function II. City Colleges of Chicago. Chicago, IL

9. McCallum, M.L. 1999. Human Structure and Function I. City Colleges of Chicago. Chicago, IL

1998 (7).

8. McCallum, M.L. 1998. Comparison of the feeding behaviors of two Pipids. *Bulletin of the Chicago Herpetological Society* 32:24-25.

7. McCallum, M.L. 1998. Comparison of the feeding behavior of *Xenopus laevis* and *Hymenochirus boettgeri* with emphasis on the use of the forelimbs. *Bulletin of the Maryland Herpetological Society* 34(1):29-33.

6. McCallum, M.L. & L. Bouschard. 1998. Explore & More: Science Discovery in Fisheries II. Mid-America Aquacenter Publications. St. Louis, MO. 250 pages.

5. McCallum, M.L. 1998. Inquiry-based learning programs for educators and students, 1998-1999 Academic Year. Mid-America Aquacenter Publications. St. Louis, MO. 3 pages.

4. McCallum, M.L. 1998. Explore & More: Science Discovery in Fisheries I. Mid- America Aquacenter Publications. St. Louis, MO. 67 pages

3. McCallum, M.L. 1998. Explore & More: Science Discovery in Agriculture II. Mid-America Aquacenter Publications. St. Louis, MO. 52 pages

2. McCallum, M.L. 1998. Explore & More: Science Discovery in Agriculture I. Mid-America Aquacenter Publications. St. Louis, MO. 225 pages

1997.

1. McCallum, M.L. 1997. Use of the claws to facilitate ecdysis in *Xenopus laevis*. *Bulletin of the Chicago Herpetological Society* 32:28

Short Articles In Review (1) Names in Bold are Student Coauthors.

44. **Ramsey, Z.** and M.L. McCallum. (In Review). Chirping Frog. Cave Use. *Herpetological Review*

Short Articles In Press (4) Names in Bold are Student Coauthors.

42. McCallum, M.L. and **R. Flowers**. (In Press). *Eumeces laticeps* (Broadhead Skink). Predation. *Herpetological Review*

41. McCallum, M.L., and S.E. Trauth. (In Press). *Hyla cinerea* (Green Treefrog) and *Pseudacris triseriata* (Western Chorus Frog). Amplexant Calling. *Herpetological Review* AN07-69.

40. McCallum, M.L. and S.E. Trauth. (In Press). *Pseudacris streckeri illinoensis* (Illinois Chorus Frog). Egg mass fidelity suggests oophagy. *Herpetological Review* (journal lost manuscript, resubmitted AN07-68)

39. McCallum, M.L., **H. Rauschenberger**, and S.E. Trauth. (In Press). *Pseudacris streckeri illinoensis* (Illinois Chorus Frog) Defensive Posture. *Herpetological Review*

Short Articles Published (39) Names in Bold are Student Coauthors.

2009 (1)

39. McCallum, M.L. 2009. Where were you Wall Street. *Aquila Review* 2:91-92.

2008 (1)

38. McCallum, M.L. 2008. Editorial changes and using film clips as figures in HCB PDFs. *Herpetological Conservation and Biology* 3(2):i.

37. McCallum, M.L., B.A. Wheeler and S.E. Trauth. (2008). *Eurycea longicauda melanopleura* (Dark-sided Salamander). Aberrant Coloration. *Herpetological Review* 39(3):334

36. McCallum, M.L., **A.R. Langley**, and W.E. Meshaka. 2008. Human-Mediated Dispersal of the Mediterranean Gecko (*Hemidactylus turcicus*) in Texas. *Journal of Kansas Herpetology* 25:21.

2007 (1)

35. McCallum, M.L. and J.L. McCallum. 2007. *Masticophis flagellum* (Eastern Coachwhip) Reproduction. *Herpetological Review* 38(3):340-341.

2006 (9)

34. McCallum, M.L. and J.L. McCallum. 2006. *Hemidactylum turcicus* (Mediterranean Gecko). Diurnal Burrows and Refugia. *Herpetological Review* 37(4):465.

33. Bury, R.B., M.L. McCallum, R.A. Saumure, and S.E. Trauth. 2006. Announcing: *Herpetological Conservation and Biology*—The first issue. *The Murreletter* 14(3):4.

32. McCallum, M.L. and J.L. McCallum 2006. *Hemidactylum turcicus* (Mediterranean Gecko). Prey and Predation. *Herpetological Review* 37(4):465-466.

31. **Ray, J.E., D. Preston**, and M.L. McCallum. 2006. *Bufo nebulifer* (Coastal Plains Toad) Urban Road Mortality. *Herpetological Review* 37(4):442.

30. McCallum, M.L. 2006. Playing the hand we are dealt. *Florida Wildlife Rehabilitators Association Printed Quarterly* 15(4):4.

29. McCallum, M.L., R.B. Bury, S.E. Trauth, and R.A. Saumure. 2006. A revisit of a classic paper By Norm Scott on amphibian and reptile community ecology. *Herpetological Conservation and Biology* 1:133-134.

28. Bury, R.B., M.L. McCallum, R.A. Saumure, S.E. Trauth. 2006. New on-line herpetology journal. *Missouri Herpetological Society Newsletter* 19:3.

27. Bury, R.B., M.L. McCallum, S.E. Trauth and R.A. Saumure. 2006. Dawning of *Herpetological Conservation and Biology*: A Special Welcome to Your New Journal. *Herpetological Conservation and Biology* 1(1):i-iii.

26. Bury, R.B., M.L. McCallum, S.E. Trauth and R.A. Saumure. 2006. Inaugural issue of *Herpetological Conservation and Biology*. *Crocodile Specialist Group Newsletter* 25(4):23.

25. McCallum, M.L. and C.T. McAllister. 2006. *Scincella lateralis* (Ground Skink) Aquatic Behavior. *Herpetological Review* 37(1): 92-93.

2005 (4).

24. McCallum, M.L. 2005. Book Review: Tropical herpetology: a drop in the bucket. *Trends in Ecology & Evolution*: 20(6):289-290.

23. **Walsh, E., S. Gabrey** and M.L. McCallum 2005. *Agkistrodon piscivorus* (Western Cottonmouth) Striking

Behavior. *Herpetological Review*. 36 (2):186

22. Neal, R.G., M.L. McCallum, C.R. McDowell, S.E. Trauth. 2004. Alligator mississippiensis (American Alligator) nest and nestling ecology. *Herpetological Review* 35(4):379.

21. McCallum, M.L. and J.L. McCallum. 2004. *Hyla chrysoscelis* (Cope's Treefrog) Tadpole overwintering. *Herpetological Review* 36(1):54.

2003 (7).

20. McCallum, M.L. and S.E. Trauth. 2003. *Chelydra serpentina* (common snapping turtle). Site Fidelity and Growth. *Herpetological Review* 34(3):239-240.

19. McCallum, M.L. and S.E. Trauth. 2003. *Acris crepitans* (Northern Cricket Frog). Communal Hibernaculum. *Herpetological Review* 34(3):228.

18. McCallum, M.L. 2003. *Graptemys geographica* (Northern Map Turtle) Nest Over wintering. *Herpetological Review* 34(3):241.

17. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2003. *Notophthalmus viridescens louisianensis* (Central Newt) Brachiate Adults. *Herpetological Review* 34(1):46.

16. McCallum, M.L., R.G. Neal, and S.E. Trauth. 2003. *Pseudacris streckeri illinoensis* (Illinois Chorus Frog) Satellite Behavior. *Herpetological Review* 34(1):53.

15. McCallum, M.L., T.L. Klotz, and S.E. Trauth. 2003. *Rana sylvatica* (Wood Frog) phonotactically stalking calling male *Pseudacris crucifer* (spring peeper). *Herpetological Review* 34(1):54.

14. McCallum, M.L., T.L. Klotz, and S.E. Trauth. 2003. *Rana sylvatica* (Wood Frog) Death Feigning. *Herpetological Review* 34(1):54-55.

2001 (7).

13. McCallum, M.L. 2001. A classroom demonstration of temperature and wind effects on plant transpiration. *American Biology Teacher* 63(6):420-421.

12. McCallum, M.L. and S.E. Trauth. 2001. *Pseudacris streckeri illinoensis* (Illinois Chorus Frog). Terrestrial Feeding. *Herpetological Review* 32(1):35

11. McCallum, M.L. 2001. *Opheodrys aestivus* (Rough Green Snake). Hibernaculum. *Herpetological Review* 32(1):50

10. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2001. *Acris crepitans* (northern cricket frog). Attempted Cannibalism. *Herpetological Review* 32(2):99-100.

9. McCallum, M.L. and S.E. Trauth. 2001. *Hyla cinerea* (green treefrog) Pre-hibernation live body weights. *Herpetological Review* 32(3):182.

8. Trauth, S.E. and M.L. McCallum. 2001. *Alligator mississippiensis* (American Alligator) Winter Kill. *Herpetological Review* 32(4):250-251

7. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2001. *Pseudacris streckeri illinoensis* (Illinois Chorus Frog) Dysfunctional vocal sac. *Herpetological Review* 32(4):248-249

2000 (2).

6. Trauth, S.E., M.L. McCallum, B. Ball, and V. Hoffman. 2000. *Plethodon caddoensis* (Caddo Mountain Salamander) and *Plethodon serratus* (Southern Redback Salamander). Nocturnal Climbing Activity. *Herpetological Review* 31:232-233

5. McCallum, M.L. and S.E. Trauth. 2000 State links and conservation information for Arkansas. In: Society for the Study of Amphibians and Reptiles Conservation Page. Society for the Study of Amphibians and Reptiles. <http://www.harding.edu/~plummer/stateconservation.htm#arkansas>

1999 (1).

4. McCallum, M.L. 1999. *Acris crepitans* (northern cricket frog). Death Feigning. *Herpetological Review* 30:90

1997 (1).

3. McCallum, M.L. 1997. Use of the claws to facilitate ecdysis in *Xenopus laevis*. *Bulletin of the Chicago Herpetological Society* 32:28

1995 (2).

2. McCallum, M.L. 1995. *Nerodia sipedon* (northern water snake). Feeding. *Herpetological Review* 26:39.

1. McCallum, M.L. 1995. Geographical Distribution. *Heterodon nasicus* (western hognose snake). *Herpetological Review* 26:46

Technical Reports (17) *Names in Bold are Student Co-Authors.*

18. McCallum, M.L. 2009. Questions and answers about climate change impacts on agriculture and wildlife. Submitted to: Panel on the Role of Ecosystem Management in Climate Change Adaptation and Disaster Risk Reduction. Climate Change Adaptation Unit, Division of Environmental Policy Implementation (DEPI), United Nations Environmental Program (UNEP). Richard Tingem Munang, Assistant Project Manager & Researcher-Climate Change, P.O. Box 47074-00100, Nairobi, Kenya
17. McCallum, M.L., **E. Walsh, V. Bogosian, III**, and J.L. McCallum. 2004. Herpetological Inventories of Three Wildlife Management Areas in Northwestern Louisiana – Interim Report. Unpublished Interim Report to the Louisiana Department of Wildlife and Fisheries.
16. McCallum, M.L. and S.E. Trauth. 2003. Herpetological Inventory of Wilson’s Creek National Battlefield. Unpublished Final Report to the National Park Service
15. McCallum, M.L. and S.E. Trauth. 2003. Herpetological Inventory of Arkansas Post National Memorial. Unpublished Final Report to the National Park Service
14. McCallum, M.L. and S.E. Trauth. 2003. Herpetological Inventory of George Washington Carver National Monument. Unpublished Final Report to the National Park Service.
13. McCallum, M.L. and S.E. Trauth. 2003. Herpetological Inventory of Hot Springs National Park. Unpublished Final Report to the National Park Service
12. Trauth, S.E., **R.G. Neal**, and M.L. McCallum. 2003. Annual Report on the Inventory of Amphibians and Reptiles at Fort Chaffee. Unpublished report to the U.S. Army.
11. McCallum, M.L. and S.E. Trauth. 2002. Preliminary Report on Wood frog die-offs in the Ozarks. Unpublished report to the U.S. Forest Service.
10. McCallum, M.L., **V. Hoffman**, S.E. Trauth. 2002. Herpetological Inventory of George Washington Carver National Historic Site. Unpublished report to the National Park Service.
9. McCallum, M.L., **V. Hoffman**, S.E. Trauth. 2002. Herpetological Inventory of Wilson’s Creek National Battlefield. Unpublished report to the National Park Service.
8. McCallum, M.L., **R.G. Neal, V. Hoffman**, and S.E. Trauth. 2002. Herpetological Inventory of the Arkansas Post National Memorial. Unpublished report to the National Park Service.
7. **Hoffman, V.**, M.L. McCallum, and S.E. Trauth. 2002. Herpetological Inventory of selected aquatic habitats within Hot Springs National Park. Unpublished report to the National Park Service.
6. McCallum, M.L. and S.E. Trauth. 2002. An investigation of the distribution and status of Illinois chorus frog (*Pseudacris streckeri illinoensis*) and the condition of its breeding habitat in northeastern Arkansas: A needs assessment for reservation establishment. Unpublished report to the Arkansas Game and Fish Commission, Little Rock, AR and the U.S. Fish and Wildlife Service, Conway, AR. 22 pages
5. McCallum, M.L., and M.J. Lannoo. 2002. Recommendations by the Graduate Studies Committee for improving graduate student involvement in the Herpetologist’s League. Herpetologist’s League
4. Trauth, S.E., M.L. McCallum, B.A. Wheeler, **B. Ball**. 2000. Preliminary Inventory of Amphibians and Reptiles at the Arkansas Post National Memorial. Unpublished report to the National Park Service. 2 pages.
3. McCallum, M.L. & E. O. Moll. 1994. Herpetological Inventory of the upland habitats of the Savanna Army Depot. Unpublished report to the US Fish and Wildlife Service. 27 pages
2. McCallum, M.L. & E. O. Moll. 1994. Historical Occurrences of Amphibians and Reptiles at the Savanna Army Depot. Unpublished report to the US Fish and Wildlife Service 21 pages.
1. McCallum, M.L. and E. O. Moll. 1994. Herpetological inventory of the lowland habitats of the Savanna Army Depot. Unpublished report to the US Fish and Wildlife Service. 25 pages

Outreach Materials, Newspaper and Magazine Articles and Internal Documents (12)

13. McCallum, M.L. and D.W. Allard. 2007. Biological Sciences Program Assessment, 2006-2007.
12. McCallum, M.L. and D.W. Allard. 2007. Biological Sciences Program Goals, 2007-2008.
11. McCallum, M.L. 2007. NPIP: What is it and Why is it Important. *The Poultry Fancier* 1(2):1-3.
10. McCallum, M.L. (under pen name Ashley Pitt). 2007. Tiny the Terrible. *The Poultry Fancier* 1(1):4-5.
9. McCallum, M.L. and D.W. Allard. 2006. Biological Sciences Program Goals, 2006-2007.
8. McCallum, M.L. and D.W. Allard. 2006. Biological Sciences Program Assessment, 2005-2006.
7. McCallum, M.L. and D.W. Allard. 2005. Biological Sciences Program Goals, 2005-2006.
6. McCallum, M.L. and D.W. Allard. 2005. Biological Sciences Program Assessment, 2004-2005.
5. Anonymous. 2005. Sponsored program development manual and procedures for Texas A&M University-Texarkana. (I edited the entire document and authored portions).
http://www.tamut.edu/~allard/gs/projects/SPONSORED%20PROGRAM%20DEVELOPMENT%20MANUAL%20AND%20PROCEDURES%20_2_.pdf
4. McCallum, M.L. Rumors of Hellbender’s Demise Greatly Exaggerated. *Columbia Daily Tribune*. (Sunday, 11/21/2004)
3. McCallum, M.L. 2004. Curriculum Plans for Outreach Education Programs Offered by the Red River Watershed Institute and Museum of Life Sciences. Louisiana State University in Shreveport. Shreveport, LA 80 pg.
2. McCallum, M.L. 2004. A laboratory manual for human physiology laboratory, biology 280 L. Louisiana State

University in Shreveport. Shreveport, LA. 80 pg.

1. Hanson, G., S.Banks, D. Gossett, R. Kalinsky, M. McCallum, and D. Alford. 2004. Watershed Education: Field, Lab & Classroom Workshops for High School Teachers. Red River Watershed Management Institute Publications. Shreveport, LA. 30 pg.

SCHOLARLY PRESENTATIONS AND INVITED LECTURES (80)

Names in Bold are Student Co-Authors.

2009 (4)

80. McCallum, M.L. Future climate change may spark box turtle declines. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. July, 22-27.

79. McCallum, M.L. Modern amphibian and reptile extinctions. Biology Department. University of Michigan-Flint. May 6.

78. McCallum, M.L. Amphibian and reptile extinction and the role of climate change. Biology Department. University of Texas Pan American. April 5.

77. McCallum, M.L. Extinction and decline of amphibians and reptiles and the role of climate change. Biology Department. Biology Department. Western Kentucky University. February 10.

2008 (4)

76. McCallum, M.L., and J.L. McCallum. Does body size reflect foraging ability in post-metamorphic Marine Toads? 55th Annual Southwestern Association of Naturalists Meeting. Memphis, Tennessee. April 10-12.

75. McCallum, M.L. Future climate change spells catastrophe for the Northern Cricket Frog (*Acris crepitans*). 55th Annual Southwestern Association of Naturalists Meeting. Memphis, Tennessee. April 10-12.

74. McCallum, M.L. Dissecting modern amphibian declines and comparing them to the fossil record. 55th Annual Southwestern Association of Naturalists Meeting. Memphis, Tennessee. April 10-12.

73. McCallum, M.L. Assessing modern reptile decline and extinction. 55th Annual Southwestern Association of Naturalists Meeting. Memphis, Tennessee. April 10-12.

72. McCallum, M.L. Assessing modern reptile decline and extinction, and the role of climate change. Texas A&M University-Commerce. March 11.

2007 (10)

71. McCallum, M.L. Detecting declines, estimating extinction, and predicting the impacts of climate change. College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas. June 15.

70. McCallum, M.L. Amphibian decline or extinction: Current rates dwarf background extinction rate. 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

69. McCallum, M.L., S.E. Trauth, and J.L. McCallum. Climate influences on growth and reproduction in *Terrapene carolina triunguis*. 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

68. McCallum, M.L. and J.L. McCallum. Gecko response to fire ant eradication. 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

67. McCallum, M.L., **Baker, B., J. Raney, B. Ward**, and J.L. McCallum. Sucrose concentration preference in the Ruby-Throated Hummingbird. 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

66. McCallum, M.L., **S. Beharry** and S.E. Trauth. The Central Newt and Ozark Highlands Leech: Müllerian or Aggressive Mimics? 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

65. McCallum, M.L., B.A. Wheeler, W. Moser, and S.E. Trauth. Feeding behavior and amphibian infestation by the leech *Deserobdella picta* (Verrill, 1872), Hirundinea: Rhynchobdellida: Glossiphoniidae) from the eastern Arkansas Ozarks. 54th annual meeting of the Southwestern Association of Naturalists, Stephenville, Texas. April 19-21, 2007.

64. McCallum, M.L. Amphibian Decline or Extinction: Current Amphibian Decline Dwarfs Background Extinction Rate. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles.

63. McCallum, M.L. Amphibian extinction and climate change. University of Arkansas at Monticello. November 2007.

62. McCallum, M.L. Amphibian extinction and climate change. Creighton University, Omaha, NE. November 2007.

2006 (6)

61. Trauth, S.E., M.L. McCallum and **J.R. Milanovich**. Sperm morphology and morphometrics in the ringed salamander, *Ambystoma annulatum* (Caudata: Ambystomatidae), using scanning electron microscopy. Arkansas Academy of Science. Batesville, AR. April 7-8.

60. McCallum, Malcolm L.; Bury, R. Bruce; Doody, Sean; Germano, David J.; Miller, Brian; Saumure, Raymond A.; Smith,

Brian; Trauth, Stanley E.; Vogt, Richard C.; Wheeler, Benjamin A. Herpetological Conservation and Biology, A Journal Dedicated to the Conservation, Ecology, and Natural History. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League and the Society for the Study of Amphibians and Reptiles. New Orleans, LA. (Poster). July 12-17.

59. McCallum, M.L. Taking land for public use: The politics of the NEPA and the Fifth Amendment protection of just compensation. Constitution Week Speaker Symposium. Texarkana, Texas. July 11-15.

58. McCallum, M.L. 2006. An Overview of My Research. Texas A&M University-Texarkana, Texarkana, TX. February 20.

57. McCallum, M.L. 2006. An Overview of My Research. University of Illinois-Springfield, Springfield, IL. February 24.

56. McCallum, M.L. 2006. An Overview of My Research. Central Missouri State University, Warrensburg, MO. February 17.

2005 (17)

55. McCallum, M.L. Developing a new method for evaluating stress in amphibians, with comments on conservation issues in the MidSouth. Southeast Regional Meeting of Partners in Amphibian and Reptile Conservation. Hot Springs, Arkansas. February 22.

54. McCallum, M.L., J.L. McCallum. The decline of natural history publishing in two herpetology journals. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Tampa, Florida.

53. McCallum, M.L., L. Jones, S. Banks, D. Gossett. The effect of paraquat on the antioxidant defense system of the American Bullfrog. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Tampa, Florida.

52. McCallum, M.L., E. Walsh, Steve Gabrey, V. Bogosian, & J.L. McCallum. A comparison of herpetofauna communities in three northwestern Louisiana wildlife management areas. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Tampa, Florida.

51. McCallum, M.L. & S.E. Trauth. Can the Illinois Chorus Frog Survive in Arkansas. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, TX (April 14-16).

50. McCallum, M.L. & J.L. McCallum. Historical changes in publishing patterns of life history articles in two herpetology journals. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, TX (April 14-16).

49. McCallum, M.L., L. Jones, S. Banks, D. Gossett. The effect of paraquat on the antioxidant defense system of the American Bullfrog. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, TX (April 14-16).

48. McCallum, J.L. & M.L. McCallum. Fluctuations in use of an urban wetland by water birds and raptors. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, TX (April 14-16)

47. McCallum, M.L., T. Klotz, and S.E. Trauth. A four-year study of woodfrog deaths in the Ozarks with no answers. 52nd Annual Meeting of the Southwestern Association of Naturalists. Huntsville, TX. (April 14-16)

46. McCallum, M.L. & J.L. McCallum. Historical changes in publishing patterns of life history articles in two herpetology journals. Annual Meeting of Arkansas Academy of Sciences, Conway, AR. April 7-8.

McCallum, M.L. 2005. Ecology Research. Texarkana College. Texarkana, TX. September 29.

45. McCallum, M.L., L. Jones, S. Banks, D. Gossett. The effect of paraquat on the antioxidant defense system of the American Bullfrog. Annual Meeting of Arkansas Academy of Sciences, Conway, AR. April 7-8.

44. McCallum, M.L. 2005. Immuno-reproductive trade-offs and other froggy stuff. Sam Houston State University. Huntsville, TX. May 3.

43. McCallum, M.L. 2005. Research in Ecology & Conservation. Dallas Zoo. Dallas, TX. June 2.

42. McCallum, J.L. & M.L. McCallum. Use of an urban wetland by water birds and raptors. Arkansas Academy of Science. Conway, AR. April 7-8. (**First Place Graduate Life Science Presentation Awarded to JLM**).

41. McCallum, M.L. 2005. Environmental and Herpetological Research. Jackson State University. Jackson, MS. Feb. 22.

40. Walsh, E., H. Spaulding, & M.L. McCallum. Does the Red-Cockaded Woodpecker function as an umbrella species for herpetofauna? Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Tampa, Florida.

2004 (5)

39. McCallum, M.L. and S.E. Trauth. Can antigen exposure suppress spermatogenesis in the northern cricket frog. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Norman, Oklahoma. May 26-31.
38. Trauth, J., M.L. McCallum, S.E. Trauth and R.L. Johnson. Habitat modification and population structure in the Illinois Chorus Frog (*Pseudacris streckeri illinoensis*) in Arkansas. Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Norman, Oklahoma. May 26-31.
37. McCallum, M.L. 2004. The Health Care Crisis in America: Environmental Health vs. Personal Health. Louisiana State University College of Sciences Research Seminar. Shreveport, Louisiana. September 3.
36. McCallum, M.L. 2004. Taxonomy and Natural History of the Northern Cricket Frog. University of Central Arkansas. Conway, Arkansas. April 25.
35. **Jones, L.**, S. Banks, D. Gossett, and M.L. McCallum. Oxidative Stress Response in Bullfrog Tadpoles. Louisiana State University College of Sciences Student Research Forum. Shreveport, Louisiana. April 30.

2003 (9)

34. **Beharry, S.**, M.L. McCallum and S.E. Trauth. 2003. A potential mimetic complex between leeches and newts. Society for the Advancement of Chicanos and Native Americans National Conference. October 2-5. Albuquerque, New Mexico.
33. McCallum, M.L., S.E. Trauth, **T.L. Klotz, W. Stephens, J. Bouldin, B.A. Wheeler, K.Gillespie, and D. Feldman.** 2003. A three-year study on wood frog deaths in the Arkansas Ozarks. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
32. McCallum, M.L., **R.G. Neal**, S.E. Trauth. 2003. An inventory of Amphibians and Reptiles at the Arkansas Post National Memorial, Gillette, AR. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
31. McCallum, M.L. and S.E. Trauth. 2003. Can the Illinois chorus frog (*Pseudacris streckeri illinoensis*) survive in Arkansas? 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR. (**awarded 2nd place graduate life sciences**)
30. Wheeler, B.A., M.L. McCallum, S.E. Trauth, **M.N. Mary, C.R. McDowell.** 2003. Fall breeding of *Rana sphenoccephala* in northeastern Arkansas. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
29. McCallum, M.L., S.E. Trauth, **T.L. Klotz, W. Stephens, J. Bouldin, B.A. Wheeler, K.Gillespie, and D. Feldman.** 2003. A three-year study on wood frog deaths in the Arkansas Ozarks. Brown Bag Seminar. Environmental Sciences Student Association. February 19.
28. **McDowell, C.R.**, M.L. McCallum, S.E. Trauth, B.A. Wheeler, and R.L. Shelton. 2003. Length-mass associations of hatchling alligator snapping turtles at various stages of metabolic bone disease, with notes on behavioral observations. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
27. McCallum, M.L. 2003. Aspects of natural history and ecological trade-offs in *Acris crepitans* with notes on amphibian declines in Arkansas. Department of Biological Sciences, Louisiana State University at Shreveport. Shreveport, LA. February 25.
26. **Neal, R.G.**, M.L. McCallum, S.E. Trauth, **C.R. McDowell**, and **T.L. Klotz.** 2003. Calling site characterization of the Illinois chorus frog (*Pseudacris streckeri illinoensis*). 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR. *Neal was Awarded Second Place for Undergraduate Life Sciences.*

2002 (10)

25. McCallum, M.L. and S.E. Trauth. 2002. Can the Illinois chorus frog (*Pseudacris streckeri illinoensis*) survive in Arkansas? A case study of a secretive species in need of protection. NRCS/AGFC Illinois Chorus Frog Action Plan Meeting. Piggot, AR. December 3.
24. McCallum, M.L. and S.E. Trauth. 2002. Can the Illinois chorus frog (*Pseudacris streckeri illinoensis*) survive in Arkansas? A case study of a secretive species in need of protection. Third Annual Arkansas Game and Fish Commission Research Symposium. Little Rock, AR. October 15.
23. Trauth, S.E., M.L. McCallum, **R. Konvalinka**, and D.A. Saugey. 2002. Brooding postures and nest site fidelity in the western slimy salamander, *Plethodon albagula* (Amphibia, Caudata, Plethodontidae), from an abandoned mine shaft in Arkansas. 2002 Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Lawrence, KS. July 3-8.
22. McCallum, M.L. 2002. A Forty-Three Year Museum Study of Northern Cricket Frog (*Acris crepitans*) Abnormalities in

Arkansas: Upward Trends and Distributions. Brown Bag Seminar. Arkansas State University Environmental Sciences Student Association. February 5.

21. McCallum, M.L. and S.E. Trauth. 2002. Distribution and Occurrence of Northern Cricket Frog (*Acris crepitans*) Abnormalities in Arkansas Based on 43 Years of Museum Collection Data. 2002 Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Lawrence, KS. July 3-8.
20. McCallum, M.L., S.E. Trauth, and **R.G. Neal**. 2002. Tail-coiling in Ringneck Snakes: Flash Display or Decoy? 2002 Joint Meeting of the American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. Lawrence, KS. July 3-8.
19. McCallum, M.L. and S.E. Trauth. 2002. Distribution and Occurrence of Northern Cricket Frog (*Acris crepitans*) Abnormalities in Arkansas Based on 43 Years of Museum Collection Data. 86th Annual Meeting of the Arkansas Academy of Science. Little Rock, AR. April 5-6. (**honorable mention Graduate Life Sciences**)
18. **Neal, R.G.**, M.L. McCallum, and S.E. Trauth. 2002. Tail-coiling in Ringneck Snakes: Flash Display or Decoy? 86th Annual Meeting of the Arkansas Academy of Science. Little Rock, AR. April 5-6.
17. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2002. Occurrences of parasitism by leeches in an Arkansas Ozark Amphibian Community. 86th Annual Meeting of the Arkansas Academy of Science. Little Rock, AR. April 5-6.
16. McCallum, M.L. and S.E. Trauth. 2002. A Forty-Three Year Museum Study of Northern Cricket Frog (*Acris crepitans*) Abnormalities in Arkansas: Upward Trends and Distributions. 10th Southern Division Midyear Meeting of the American Fisheries Society. Little Rock, AR. February 21-24.

2001 (6)

15. McCallum, M.L., and S.E. Trauth. 2001. Distribution of the subspecific characters of *Acris crepitans crepitans* and *Acris crepitans blanchardi* in Arkansas: Intergradation or clinal variation, do the subspecies hold? Joint International Meeting of the Society for the Study of Amphibians and Reptiles and the Herpetologist's League. Indianapolis, IN. July 26-30.
14. McCallum, M.L. and S.E. Trauth. 2001. Performance of Wood Frog (*Rana sylvatica*) Tadpoles on three Soybean Meal – Corn Meal Rations. 85th Annual Meeting of the Arkansas Academy of Science. April 13-14. (**1st Place Grad. Life Sci.**).
13. McCallum, M.L. and S.E. Trauth. 2001. Observations on the Illinois Chorus Frog (*Pseudacris streckeri illinoensis*) 2000 and 2001 Breeding Choruses, with Comments on Conservation Needs in Arkansas. 85th Annual Meeting of the Arkansas Academy of Science. Conway, AR. April 13-14.
12. McCallum, M.L. 2001. Systematic status of *Acris crepitans* and comparative investigations of immunocompetence and reproductive biology in hylid frogs. Environmental Sciences Seminar Series. Arkansas State University. Mar 28.
11. McCallum, M.L., B.A. Wheeler, and S.E. Trauth. 2001. What's happening to our amphibians? Invited Seminar. Williams Baptist College, Walnut Ridge, AR, March 27.
10. **Konvalinka, R.R.**, S.E. Trauth, M.L. McCallum, B.A. Wheeler, **H. Worley**, and D.A. Saugey. 2001. Microhabitat utilization of an abandoned mine shaft by brooding females of the western slimy salamander, *Plethodon albagula* (Caudata: Plethodontidae). 85th Annual Meeting of the Arkansas Academy of Science. April 13-14.

2000 (3)

9. McCallum, M.L. and S. E. Trauth. 2000. The Arkansas Amphibian Monitoring Program (AAMP) in Arkansas, a project in its infancy and in need of volunteers. 84th Annual Meeting of the Arkansas Academy of Science, April 7-8.
8. McCallum, M.L., and S.E. Trauth. 2000. Curly-tail malformity in hatchlings of the alligator snapping turtle, *Macrolemys temminckii* (Testudines: Chelydridae), from Northeastern Arkansas. 84th Annual Meeting of the Arkansas Academy of Science, April 7-8. (**First Place Graduate Vertebrate Zoology**).
7. Trauth, S.E. and M.L. McCallum. 2000. Breeding Mortality in the wood frog, *Rana sylvatica* (Anura: Ranidae), from northcentral Arkansas. 84th Annual Meeting of the Arkansas Academy of Science, April 7-8.

1999 (2)

6. McCallum, M.L. (Scientific Discussion Panelist). 1999. International Conference on Biodiversity and Sustainability of the Rio Negro Basin, Brazil. Turtles of the Rio Negro. Mid-America Aquacenter. St. Louis, MO. March 22-26.
5. McCallum, M.L. (Scientific Discussion Panelist). 1999. International Conference on Biodiversity and Sustainability of the Rio Negro Basin, Brazil. Molecular Biology and Biogeography of Amazon Fishes. St. Louis, MO. March 22-26.

1998

4. McCallum, M.L. Aquarium Management and Outreach. Staff Development Program. Normandy School District, 7837 Natural Bridge Road, St. Louis, MO. December 13.

1997

3. McCallum, M.L. Sex & Love in the Animal World. Belleville Area College Honors Society. March 20.

1996

2. McCallum, M.L. Biodiversity and Endangered Species. Belleville Area College Honors Society. Belleville, IL. November 4.

1994

1. McCallum, M.L. Biodiversity: What is it, where is it, and where is it going. Department of Biological Sciences Brown Bag Seminar. Eastern Illinois University. Charleston, IL. November 10.

HONORS

2003

Second Place Graduate Student Oral Research Presentation in Life Sciences. "Can the Illinois chorus frog (*Pseudacris streckeri illinoensis*) survive in Arkansas?" 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.

2002

Honorable Mention Outstanding Graduate Research Presentation in Life Sciences. "Distribution and Occurrence of Northern Cricket Frog (*Acris crepitans*) Abnormalities in Arkansas Based on 43 Years of Museum Collection Data". Arkansas Academy of Science 86th Annual Meeting. Little Rock, Arkansas. April 5-6, 2002.

Second Place Undergraduate Student Oral Research Presentation in Life Sciences. Calling site characterization of the Illinois chorus frog (*Pseudacris streckeri illinoensis*). 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR. (Undergraduate Awarded to Robert Neal).

Awarded the first enhanced assistantship among doctoral students in the Environmental Sciences Program.

2001

1st Place Graduate Student Oral Research Presentation in Life Sciences. Arkansas Academy of Science 85th Annual Meeting. Conway, AR. April 13-14.

Elected Associate Member of *Sigma Xi*, The Scientific Research Society, by the Arkansas State University Chapter.

2000

1st Place Graduate Research Presentation in Vertebrate Zoology. Arkansas Academy of Science 84th Annual Meeting. Hot Springs, AR. April 7-8, 2000.

1994

Nominated to Phi Sigma Honor Society.

1993

Elected Vice President of Zoology Club, Eastern Illinois University.

1992

2nd Place Agronomy Senior Exit Exam, Spring 1992. Illinois State University. Normal, IL.

FUNDED GRANTS AND AWARDS (Total = \$798,591, Pending = \$375,000)

2009

\$375,000. (*letter of intent submitted*). Turtles as gauges of past, current and future scenarios of climate change. United States Geological Survey National Climate Change and Wildlife Center. Co-PI with Bruce Bury (USGS Forest and Rangeland Ecosystem Science Center) and David Germano (California State University-Bakersfield).

2008

\$13,075. (*not funded*). Development of a heart girth weight estimator for meat goats. On-Farm Research Grant. Southern Region Sustainable Agriculture Research & Education Program.

\$95,000. (*not funded*). A risk assessment of climate change effects on amphibian and reptile growth, reproduction, and biogeography. Department of Energy National Institute for Climate Change Research. Unique Identifier Code:

McCallum_5_16_2008_1_58_50_PM. (Pre-proposal was one of 82 selected from among 217 submissions for development into a full proposal due August 17, 2008).

2007 (\$1,200)

\$1,200. Toadlets to establish Cane Toad (*Bufo marinus*) research colony. Fort Worth Zoo.
\$114,019. (*not funded*) Utility of fuzzy modeling for assessing population health risk. Texas Higher Education Coordinating Board, Advance Research Program. (Co-PI: J.D. Maul, Texas Tech University)
\$7,500. (*pending*). Evaluation of the biodiversity in Red Cockaded Woodpecker habitat management zones. US Forest Service Cost Share. (*Canceled due to budget cuts*).

2006 (\$71,228)

\$70,428. Print Resources for Texas A&M University-Texarkana Library. Oxnard College, California.
\$800. Travel to Henderson, Nevada for HCB Steering Committee Meeting. USGS Travel Funds.
\$325,000. (*not funded*). Has climate change predisposed herpetofauna to future range contraction? U.S. Department of Energy. Department of Energy National Institute for Climate Change Research.
\$250,000. (*not funded*). Have the ranges of endemic salamanders decreased due to climate change? U.S. Department of Energy. Department of Energy National Institute for Climate Change Research.

2005 (\$106,000)

\$1,000. Louisiana Ornithological Society. Evaluation of Biodiversity in Red Cockaded Woodpecker Habitat Management Zones. (coPI: Eric Walsh)
\$103,000. Acquisition of Automated Extraction Equipment. Louisiana Board of Regents Support Fund.
Ranked #6 out of 41 proposals submitted by all institutional levels statewide, Rating of 89/100.
\$47,478. (*not funded*). Field equipment for water chemistry. Louisiana Board of Regents Support Fund.
\$2,000. Evaluation of the biodiversity in Red Cockaded Woodpecker habitat management zones. Texas A&M University-Texarkana Faculty Senate Grant

2004 (\$259,781)

\$57,388. Curriculum Development for Environmental Sciences. Louisiana Board of Regents Support Fund.
Ranked #5/84 proposals submitted by undergraduate institutions statewide, Rating of 95/100. LEQSF(2004-05)-ENH-UG-28
\$43,476. Field Equipment Enhancement for Environmental Sciences. Louisiana Board of Regents Support Fund.
Ranked #2 out of 84 proposals submitted by undergraduate institutions statewide, Rating of 96/100. LEQSF(2004-05)-ENH-UG-27
\$25,833. Enhancement of Aquaculture/Fisheries Laboratory Facilities. Louisiana Board of Regents Support Fund.
Ranked #9 out of 84 proposals submitted by undergraduate institutions statewide, Rating of 94/100. LEQSF(2004-05)-ENH-UG-29
\$34,329. Expansion of Aquatic Laboratory Research and Educational Capabilities. Louisiana Board of Regents Support Fund. 2004. **Ranked #7 out of 23 proposals submitted by all institutional levels statewide, Rating 84/100.** LEQSF(2004-05)-ENH-TR-39
\$25,691. Computer interfaced equipment and its role in enhancement of environmental science instruction at LSU. Louisiana Board of Regents Support Fund. (PI: Steve Banks). LEQSF(2004-05)-ENH-TR-33
\$35,000. Applied methods for interpretation of Wetland Habitats: Wetland education workshops. Louisiana Board of Regents Support Fund. (PI: Gary Hanson). LEQSF(2004-05)-ENH-TR-36
\$14,220. Computer interfaced equipment and its role in the enhancement of allied health instruction at LSU. Louisiana Board of Regents Support Fund. PI: Banks, LEQSF(2004-05)-ENH-UG-25
\$50,000. Multidisciplinary Computational Analysis Enhancement. Louisiana Board of Regents Support Fund. (PI: Trutsch) LEQSF(2004-06)-ENH-TR-40
\$23,044. Metapopulation study of gene flow and genetic structuring of the Illinois chorus frog (*Pseudacris streckeri illinoensis*) in Arkansas. U.S. Fish and Wildlife Service. (PI: Stan Trauth). 2003.
\$750. NSF EPSCoR Travel Grant for Emerging Faculty. Visit NSF program manager.

2003 (\$230,228)

\$135,186. Herpetofaunal inventory of three wildlife management areas in northwestern Louisiana. USFWS State Wildlife Grant.
\$65,520. Avian inventory of three wildlife management areas in northwestern Louisiana. USFWS State Wildlife Grant. 2003. (PI: Steve Gabrey).
\$29,522. Status and habitat of Strecker's chorus frog in Northwestern Louisiana. USFWS State Wildlife Grant.

2002 (\$66,500)

\$53,000 Inventory of Amphibians and Reptiles at Fort Chaffey, AR. (PI: Stan Trauth.)

\$5000 An Investigation of the Distribution and Status of Illinois Chorus Frog (*Pseudacris streckeri illinoensis*) and the Condition of Its Breeding Habitat in Northeastern Arkansas: A Needs Assessment for further Protection. Arkansas Game and Fish Commission/United States Geological Survey.
\$7,500 Long-term monitoring of wood frog die-offs in the Ozark National Forest. U.S. Forest Service Cost Share.
\$500 Funds for inviting seminar speakers (Environmental Sciences Student Association). Arkansas State University Student Activities Board Action Fund.
\$500 Funds for inviting seminar speakers (Environmental Sciences Student Association). Arkansas State University Student Activities Board Action Fund.

2001 (\$600)

\$100. First Place Graduate Student Oral Presentation in Life Sciences. 85th Annual Meeting of the Arkansas Academy of Science.
\$500. Trade-offs in Resource Allocation between Immune Response and Reproduction in *Acris crepitans*, a Short-lived Frog. Sigma Xi Grants in Aid of Research.

2000 (\$6,507)

\$50. First Place Graduate Student Research Presentation in Vertebrate Zoology. 84th Annual Meeting of the Arkansas Academy of Science, 7-8 April 2000.
\$47. Environmental Sciences Ph.D. Program Supplemental Funds for Presentation at Scientific Meetings.
\$350. Preliminary Herpetological Inventory of the Arkansas Post National Memorial Park. National Park Service, 1741 Old Post Road, Gillett, Arkansas 72055. PI: Stan Trauth.
\$190. Effects of atrazine on anuran immunobiology. Environmental Sciences Ph.D. Program Supplemental Dissertation Research Funds.
\$5870. Conservation Assessment for a Public Aquarium. Conservation Assessment Program Grant. Institute of Museum and Library Services. (Funds administered by Heritage Preservation). (*Mid-America Aquacenter, St. Louis Children's Aquarium*).

1999 (\$1,397)

\$1,000. Captive Rearing of Alligator Snapping Turtles. Linneaus Fund. Chelonian Research Foundation. PI: Stanley E. Trauth. (I wrote major portion of proposal)
\$397. Environmental Sciences Ph.D. Program Supplemental Dissertation Research Funds
In Kind. 10 g of technical-grade Atrazine. Provided by Novartis Crop Protection.

1997-1998 (\$3,000)

\$3,000 Curriculum Development for distance learning courses in Anatomy and Physiology I & II, and General Zoology. City Colleges of Chicago.

1994 (\$5,000)

\$ 2,500. Herpetological Inventory of Upland Habitats at the Savanna Army Depot, Jo Daviess County, IL. U.S. Fish and Wildlife Service, Rock Island Field Office, 4469 48th Avenue Court, Rock Island, IL 61201. February 1994.
\$2,000 Herpetological Inventory of Lowland Habitats at the Savanna Army Depot, Jo Daviess County, IL. U.S. Fish and Wildlife Service, Rock Island Field Office, 4469 48th Avenue Court, Rock Island, IL 61201. February 1994.
\$500. Historic Inventory of the Amphibians and Reptiles at the Savanna Army Depot, Jo Daviess County, IL. U.S. Fish and Wildlife Service, Rock Island Field Office, 4469 48th Avenue Court, Rock Island, IL 61201. February 1994.

UNIVERSITY COMMITTEES & ACTIVITIES

Enrollment Management Council. Fall 2008 to present. (university committee)
Downward Expansion Committee. Fall 2008 to present. (university committee)
Developed plan to establish a satellite US Army Reserve Officer Training Center (ROTC). Fall 2008
Developed coordination agreements with area community colleges. Fall 2008 to present.
Faculty Senate, Arts & Sciences representative. February 2008-present
Chair, Masters Degree in Biology Planning Committee. 2007-present.
Faculty Search Committee. Assistant Professor of Political Science. 2007 to present.
College Website Committee. 2007. (college committee)
Pre-Professional Advisor, 2006-present.
Conducted the 2007-2008 Biology Program Assessment and Assessment Plan. 2008.
Biology Faculty Search Committee, 2006-2007.
Downward Expansion Curriculum Development Committee. 2005-2006.
Four (4) Faculty Search Committees. Assistant Professor of Computer Science. 2005-2007
Truman Arnold Endowed Computer Science Chair Search Committee. 2005-2007.

Southern Plains Ecological Observatory Network Planning Meeting, San Marcos, TX 10/10/2005.
 New Faculty Symposium, Texas A&M-Corpus Christie
 Developed a Paid Student Internship Program with Texarkana Water Utilities. 2005
 Advisor of A&M-Texarkana Biology Club, 2005-present
 Advisor of A&M-Texarkana Science Educators Club, 2005-present
 Developed A&M-Texarkana biology coursework targeting Ecological Society of America's Certified Associate Ecologist Program, and the Wildlife Society's Certified Associate Wildlife Biologist Program.
 Museum Committee at LSUS, 2003-2005.
 Committee for Establishing a Biology Masters Program at LSUS, 2003-2005.
 Environmental Sciences Program Committee at LSUS, 2004-2005.
 Curriculum Committee (Arkansas State University) 2000-2003
 Red River Watershed Management Institute Committee. 2003-2005.

GOVERNMENT AND NON-GOVERNMENTAL ORGANIZATION COMMITTEES

Status of the World's Sea Turtles Advisory Group for Conservation International. 2008 to present
 Advisory Committee, Save the Frogs! (<http://www.savethefrogs.com>). 2008 to present
 Conservation Committee of the Herpetologist's League, 2006 to present
 Wildlife Disease Working Group, The Wildlife Society. 2005-present
 Wildlife Toxicology Working Group, The Wildlife Society. 2005-present
 Steering Committee Member, Herpetological Conservation and Biology. 2005 to present
 Land Reuse Board, Ark-Tex Council of Governments. Texarkana, Texas 2006- 2008
 Brownfields Advisory Committee, Ark-Tex Council of Governments. Texarkana, Texas 2006 to 2008
 Journal Steering Committee and International Board of Advisors, Herpetological Conservation and Biology 2005-06.
 Ozark National Forest Oak Decline Research Team. 2001 to 2003.
 Joint task force examining on-line publication of the international journals for the Herpetologist's League and the Society for the Study of Amphibians and Reptiles. 2001 to 2002.
 Co-Chair of the Herpetologist's League's Graduate Student Advisory Committee. 2002 to 2004
 Coordinator of the Southeast Research Working Group of Partners in Amphibian and Reptile Conservation (PARC). 2004 to 2007.

EDITORIAL RESPONSIBILITIES

Managing Editor Herpetological Conservation and Biology. 2009-Present
General Herpetology Section Editor Herpetological Conservation and Biology. 2009-Present
Editor. Herpetological Conservation & Biology. 2006 to 2009
Advisory Board Member and Manuscript Reviewer. Scientific Journals International. 2006 to present
Editorial Advisory Council Member. Journal of Natural History & Wildlife. 2006 to present
Editor. Proceedings of the First International Conference on Biodiversity and Sustainability of the Rio Negro Basin Brazil. Mid-America Aquacenter Publications. St. Louis, Missouri. 1,256 pages. 1999.
Assistant Editor. Amphibian and Reptile Conservation (ISSN: 1083-445X). 2003 to 2006.
Associate Editor. Journal of the Arkansas Academy of Science. 2004 to 2005.
Guest Editor. Southeastern Naturalist. 2004.

PEER REVIEW AND PEER REVIEW SOLICITATION (66)

Reviewed/solicited to review manuscripts for the following journals:

<i>Annales Zoologici Fennici</i>	Behavioral Ecology and Sociobiology	Journal of Multidisciplinary Research
Journal of Herpetology	Animal Biology	Journal of Medical and Biological Sciences
Biological Conservation	Zootaxa	Journal of the Arkansas Academy of Science
Acta Oecologia	Herpetologica	Journal of Medicine
Zoological Science	Amphibian and Reptile Conservation	Journal of Women's Studies
Southeastern Naturalist	Journal of Agr., Food, and Environ. Sciences	Journal of Nutrition, Dietetics, and Food Science
Southwestern Naturalist	Herpetological Conservation and Biology	Transactions of the Illinois Academy of Science
J of Unconventional Theories and Res.	Journal of Research Methods and Methodol. Issues	J of Biology, Biological Systems and Bioinformatics

LEGISLATION/GOVERNMENT POLICY REVIEW PANELIST (2)

National Fish and Wildlife Policy Fellowship Program Act of 2004. June 2004. Reviewed draft of this bill prior to its submission to Congress and discussed my support for the program. Carol A. Pollio, Ph.D., Acting Branch Chief, FHC Partnerships & Outreach, US Fish & Wildlife Service, 4401 N. Fairfax Drive, Suite 840, Arlington, VA 22203.

Congressional Research Service Report. Polar Bears: Listing Under the Endangered Species Act.

Author: Eugene H. Buck, Specialist in Natural Resources Policy, Congressional Research Service. Order Code

RS22582. Jan. 25, 2007. Reviewed report prior to submission to congress.

Panel on the Role of Ecosystem Management in Climate Change Adaptation and Disaster Risk Reduction. Climate Change Adaptation Unit, Division of Environmental Policy Implementation (DEPI), United Nations Environmental Program (UNEP). Richard Tingem Munang, Assistant Project Manager & Researcher-Climate Change, P.O. Box 47074-00100, Nairobi, Kenya (e-mail: Richard.Munang@unep.org). Assisted with question development on policy implementation for presentation to the high panel. Requested: May 16, 2009. Submitted Report: 30 May 2009.

GRANT PROPOSALS REVIEWED (28)

2009. Refereed 6 proposals for University of Central Oklahoma Internal Faculty Grant Program.
2008. Refereed 5 proposals for University of Central Oklahoma Internal Faculty Grant Program.
2007. Refereed 5 proposals for University of Central Oklahoma Internal Faculty Grant Program.
2006. Refereed 1 proposal for the National Science Foundation.
Refereed 1 proposal for the California Bay Delta Authority CalFed Science Program.
2004. Refereed 8 proposals for the United States Geological Survey Amphibian Research and Monitoring Initiative.
2003. Refereed 8 proposals for the United States Geological Survey Amphibian Research and Monitoring Initiative.

SESSIONS CHAIRED AT SCIENTIFIC MEETINGS (1)

2004. Partners in Amphibian and Reptile Conservation, SE Regional Meeting, Hot Springs, AR.

MEDIA RELATIONS & OUTREACH ACTIVITIES

2008

Texarkana Gazette interviewed me for my role in "Life in Cold Blood." April 13, 2008.

2007

WildlifeExtra.com covered my amphibian decline research.

2006

David Attenborough BBC/Animal Planet production. Consulted on "Life in Cold Blood"

2005

Arkansas Academy of Sciences. Judge Graduate Student Presentations in Cellular and Molecular Biology.

Biography of Joseph Slowinski. Consulted by Jay Janie. Indonesia.

Participant in IntSci – Integrated Science for Sustainability e-conference. Manaaki Whenua Landcare Research (www.landcareresearch.co.nz/research/social/IntSci_info.asp) March 1-15. Texas A&M University – Texarkana.

Facilities Consultant. Provided feedback and recommendations for improvements on the facilities at A&M-Texarkana. *This was prior to employment at A&M-Texarkana.*

Watershed Education: Field, Lab & Classroom Workshops for High School Teachers. Red River Watershed Management Institute. Louisiana State University in Shreveport. September 13-14.

Watershed Education: Field, Lab & Classroom Workshops for High School Teachers. Red River Watershed Management Institute. Louisiana State University in Shreveport. September 20-21.

2004

Vertebrate Field Biology Guest Field Instructor. Texas A&M University at Texarkana. (Sept. 2).

2003

Yale Peabody Museum of Natural History. Yale University, CT. Consulted on the importance of museum collections.

1997

St. Louis Post-Dispatch. St. Louis, MO. Subject of story about deformed frogs. (August)

Belleville News Democrat. Belleville, IL. Subject of story about deformed frogs. (August).

Collinsville Journal. Collinsville, IL. Subject of story about my research. (January)

Channel 2 (ABC affiliate) 10:00 News. St. Louis, MO, Subject of story about deformed frogs. (August).

Channel 5 (NBC affiliate) 10:00 News. St. Louis, MO. Subject of story about deformed frogs. (August).

1996

Belleville News Democrat, Belleville, IL. Subject of story about my behavior research. (December)

PROFESSIONAL DEVELOPMENT

2008

Reporting fraud, waste and abuse

Information security awareness

Creating a discrimination-free workplace

Problem-solving for supervisors

Ethics training

2006

Multicultural Awareness Training (Texas A&M University System)

Professional Ethics Training (Texas A&M University System)

Introduction to ArcView 3.X (ESRI)

Programming with Avenue (ESRI)

Characterizing Forests Using ArcView 3.X (ESRI)

Conservation GIS using ArcView 3.X (ESRI)

Introduction to Visual Basic for GIS (ESRI)

2005

NSF Grants Workshop (University of Texas-Dallas)

Enhancing your Grant Writing Skills (TAMU System's Office of Research and Federal Relations)

2004

Louisiana State University in Shreveport. Connections: customer service training.

Navigation Electronics, Inc. Tremble Global Positioning Systems Data Collection and Post-Processing Training.

2003

Louisiana State University in Shreveport. Using Blackboard.

Louisiana State University in Shreveport. Sexual Harassment Awareness Training.

1999

Arkansas State University. Implemented by PDSI. Successful Grant Writing Strategies Training.

Arkansas State University. Sexual Harassment Awareness Training.

1992

Illinois State University, Normal. Office of Night Operations. Multicultural and Sexual Awareness Training.

Illinois State University, Normal. Office of Night Operations. Disability Awareness Training.

1991

Illinois State University, Normal. Office of Night Operations. Sensitive and Explosive Situations Manager Training

Illinois State University, Normal. Office of Night Operations. Emergency Management Training.

Illinois State University, Normal. Office of Night Operations. Alternative Lifestyle Awareness Training.

Illinois State University, Normal. Office of Night Operations. Professionalism in the Workplace Training.

INSTRUMENTATION AND RESEARCH SKILLS

ArcView	Fuzzy logic	Ouchterlony
ArcView Spatial Analyst	Scanning Electron Microscopy	Liquid Chromatography
ArcView 3D Analyst	Transmission Elec. Microscopy	Gas Chromatography
ArcView Tracking Analyst	Fluorescence Microscopy	Atomic Absorption
Trimble and Garmin GPS	FETAX	Northern, Southern, West Blot
Animal Movement for ArcView	HPLC	Immunoelectrophoresis
X-Tools for ArcView	ELISA	Column Chromatography
Regression Modeling	agglutination Assay	Radioimmunoassay
Radiotelemetry	Ion Exchange Chromatography	Ecotoxicology standard methods

PROFESSIONAL SOCIETIES

Society for Conservation Biology	Herpetologists League
Wildlife Disease Association	Society for the Study of Amphibians & Reptiles
The Wildlife Society	Society for European Herpetology
Partners in Amphibian & Reptile Conservation	American Society of Ichthyologists & Herpetologists
American Society of Naturalists	American Association of University Professors

REFERENCES

Doctoral Advisor:

Stan E. Trauth, Professor of Zoology and Director of the Electron Microscope Facility
Department of Biology, Arkansas State University, P.O. Box 599, State University, AR 72467
Email: strauth@astate.edu
Phone: 1-870-972-3111

Others (alphabetical order):

R. Bruce Bury, Zoologist
USGS Forest and Rangeland Ecosystem Science Center
3200 SW Jefferson Way
Corvallis, Oregon 97331
Email: buryb@usgs.gov
Phone: 1-541-750-1010

Tom Gandy, Professor of English
College of Arts, Sciences, and Education
Texas A&M University-Texarkana
Email: tom.gandy@tamut.edu
Phone: 1-903-223-3024

Robert Kissell, Associate Professor of Spatial Analysis
College of Forest Resources, University of Arkansas at Monticello
Email: kissell@uamont.edu
Phone: 1-870-460-1052

Katia Levintova, Assistant Professor (Previously of A&M-Texarkana)
Department of Public and Environmental Affairs, University of Wisconsin-Greenbay.
Email: levintoe@uwgb.edu
Phone: 1-920-465-2045

Raymond A. Saumure, Research Manager
The Springs Preserve, 1001 South Valley View Blvd., Las Vegas, NV 89107
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Home Phone: (702) 407-8303
SpringsPreserve.org