CURRICULUM VITAE

Michael Allen Barger

(Current June 1, 2017)

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CURRENT POSITIONS

Professor of Biology, Department of Natural Science, Peru State College, Peru, NE 68421; 2012-present (prev. Associate Professor of Biology, 2006-2012; Assistant Professor of Biology, 2001-2006).
Director, Honors Program, Peru State College, Peru, NE 68421; 2008-2012.

Visiting Scholar, Department of Biological Science, Sam Houston State University, Huntsville, TX; 2011present.

EDUCATION

Wake Forest University, Department of Biology, Ph.D. 1997-2001. Dissertation: Landscape patterns and local versus regional influences on the fish and parasite communities of Appalachian streams in North Carolina. Advisor: Dr. Gerald W. Esch.

- University of Nebraska—Lincoln, School of Biological Sciences, M.S. 1995-1997. Thesis: Structure of *Leptorhynchoides thecatus* and *Pomphorhynchus bulbocolli* (Acanthocephala) eggs in habitat partitioning, transmission and host use. Advisor: Dr. Brent B. Nickol.
- University of Nebraska—Lincoln, College of Arts and Sciences, B.S. in Biological Sciences. 1991-1994, Superior Scholar.

PEER-REVIEWED PUBLICATIONS

(those marked with an * are students)

- *Shaffer, J., *Orcutt, G., and M.A. Barger. Evaluation of key taxonomic characters distinguishing *Glaridacris* confusus and *Glaridacris laruei* (Cestoda: Caryophyllaeidae). Comparative Parasitology, in press.
- *Orcutt, G., and M.A. Barger. 2017. A new species of *Caecincola* (Trematoda: Cryptogonimidae) from largemouth bass (*Micropterus salmoides*) in the Big Thicket National Preserve, Texas, U.S.A., *Accepted* Comparative Parasitology **84:** *in press*.
- Rosser, T.G., W.A. Baumgartner, M.A. Barger, and M.J. Griffin. 2017. *Myxobolus lepomis* n. sp. (Cnidaria: Myxobolidae), a gill myxozoan infecting *Lepomis marginatus* Holbrook, 1855 and *Lepomis miniatus* Jordan, 1877 (Perciformes: Centrarchidae) from Texas, USA. Systematic Parasitology 94: 535.
- Richardson, D.J., and M.A. Barger. 2017. New host records for the fish leech, *Myzobdella reducta* (Hirudinida: Piscicolidae) from Texas. Texas Journal of Science, *in press*.
- Richardson, D.J, W.E. Moser, C.I. Hammond, E.A. Lazo-Wasem, and M.A. Barger. 2017. Host associations of *Helobdella octatestisaca* (Hirudinida: Glossiphoniidae) and the first report of this leech in the United States. Comparative Parasitology **84:** 18-20.
- *Kusy, H., and M.A. Barger. 2017. A new species of *Macroderoides* (Trematoda: Macroderoididae) from spotted gar, *Lepisosteus oculatus* (Lepisosteidae), in the Big Thicket National Preserve and surrounding areas, Texas, U.S.A. Comparative Parasitology **84**: 28-31.
- *Dutton, H.R., and M.A. Barger. 2017. Comparison of metazoan parasite diversity of catfishes within and outside the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology **84:**.21-27.

- *McAndrews, K.L., and M.A. Barger. 2017. A new species of *Caecincola* (Trematoda: Cryptogonimidae) from white crappie (*Pomoxis annularis*) in southeastern Texas, U.S.A. Comparative Parasitology **84:** 32-35.
- McAllister, C.T., D.J. Richardson, M.A. Barger, T.J. Fayton, and H.W. Robison. 2016. The acanthocephalans of Arkansas, with new host and geographical distribution records from fishes. The Arkansas Academy of Sciences, Journal of the Arkansas Academy of Science **70**: 155-160.
- Barger, M.A. 2016. A new species of *Prosorbynchoides* (Trematoda: Bucephalidae) from white bass, *Morone chrysops* (Moronidae), in the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology, 83: 74-77
- McAllister, C.T., M.A. Barger, T.J. Fayton, M.B. Connior, D.A. Neely, and H.W. Robison. 2015. Acanthocephalan parasites of select fishes (Catostomidae, Centrarchidae, Cyprinidae, Ictaluridae), from the White River drainage, Arkansas. Journal of the Arkansas Academy of Science **69**: 132-134.
- *Dutton, H.R., and M.A. Barger. 2015. Metazoan parasites of Catfishes in the Big Thicket National Preserve and Surrounding Areas, Texas, U.S.A., Comparative Parasitology, **82**: 187-197.
- Barger, M.A., and *D. Wellenstein. 2015. Morphological confirmation of *Homalometron* (Trematoda: Apocreadiidae) species in freshwater fishes in southeastern Texas, U.S.A., with description of two species. Comparative Parasitology 82: 248-253.
- Richardson, D.J., W.E. Moser, C.T. McAllister, R. Tumlison, J.W. Allen, Jr., M.A. Barger, H.W. Robison, D.A. Neely, and G. Watkins-Colwell. 2014. New host and geographic records for the fish leech *Myzobdella reducta* (Meyer, 1940) (Hirudinida: Piscicolidae). Journal of the Arkansas Academy of Science 68: 167-169.
- McAllister, C.T., C.R. Bursey, H.W. Robison, M.B. Connior, and M.A. Barger. 2014. *Haemogregarina* sp. (Apicomplexa: Haemogregarinidae), *Telorchis attenuate* (Digenea: Telorchiidae) and *Neoechinorhynchus emydis* (Acanthocephala: Neoechinorhynchidae) from map turtles (*Graptemys* spp.), in northcentral Arkansas. Journal of the Arkansas Academy of Science 68: 154-157.
- McAllister, C.T., C.R. Bursey, H.W. Robison, D.A. Neely, M.B. Connior, and M.A. Barger. 2014. Miscellaneous fish helminth parasite (Trematoda, Cestoidea, Nematoda, Acanthocephala) records from Arkansas. Journal of the Arkansas Academy of Science **68**: 78-86.
- Barger, M.A. 2014. A new species of *Azygia* from pirate perch (*Aphredoderus sayanus*) in the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology **81:** 257-259.
- *Dutton, H.R., and M.A. Barger. 2014. A New Genus and Species of Caryophyllaeid (Cestoda: Caryophyllidea) from Spotted Suckers *Minytrema melanops* (Catostomidae) in the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology **81**: 23-26.
- Barger, M.A., and *E. Olsen. 2013. Relationship between habitat structure and abundance of *Paulisentis missouriensis* (Acanthocephala) in creek chub (*Semotilus atromaculatus*), Comparative Parasitology 80: 157-163.
- Barger, M.A., and *H.A. Stigge. 2013. Intrinsic host factors and the distributional limit of *Paulisentis missouriensis* (Acanthocephala) in southeastern Nebraska, U.S.A., Comparative Parasitology **80**: 284-286.
- Barger, M.A. 2012. Lifespan of Cercariae of *Postharmostomum helicis* (Trematoda: Brachylaimidae) Under Different Temperatures and Relative Humidity. Comparative Parasitology **79:** 169-172.
- Barger, M.A. 2012. Redescription of *Polylekithum catahoulensis* (Trematoda) and anatomical differentiation from *Polylekithum ictaluri*. Comparative Parasitology **79:** 143-146.
- Barger, M.A. 2011. Tests of ecological equivalence of two species of terrestrial gastropods as second intermediate hosts of *Panopistus pricei* (Trematoda: Brachylaimidae). Journal of Parasitology **97:** 8-13.
- Barger, M.A. 2011. Microhabitat use of *Panopistus pricei* and *Brachylaima thompsoni* in terrestrial gastropods in southeastern Nebraska, U.S.A. Comparative Parasitology **78**: 185-187.
- Barger, M.A. 2010. A new species of *Caecincola* (Trematoda: Cryptogonimidae) from spotted bass (*Micropterus punctulatus*) in the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology **77:** 6-8.
- Barger, M.A. 2010. A new species of *Lissorchis* (Trematoda: Lissorchiidae) from creek chubsuckers (*Erimyzon oblongus*) in the Big Thicket National Preserve, Texas, U.S.A. Comparative Parasitology **77:** 1-5.
- Barger, M.A., and J. Hnida. 2008. Survey of trematodes from terrestrial gastropods and small mammals in southeastern Nebraska, U.S.A. Comparative Parasitology **75**: 308-314.

- McAllister, C. T., M. A. Barger, and J. N. Stuart. 2008. Neoechinorhynchus emyditoides Fisher, 1960 (Acanthocephala: Neoechinorhynchidae) from the Mexican Plateau Slider, Trachemys gaigeae (Testudines: Emydidae), in west central New Mexico, U.S.A. Comparative Parasitology 75: 135-137.
- Barger, M.A. 2007. Congruence of endohelminth community similarity in creek chub (*Semotilus atromaculatus*) with drainage structure in southeastern Nebraska. Comparative Parasitology **74:** 185-193.
- *Robinson, H.A., and M.A. Barger. 2007. Microhabitat specificity of *Paulisentis missouriensis* (Acanthocephala: Neoechinorhynchidae) in creek chub (*Semotilus atromaculatus*) in southeastern. Nebraska. Comparative Parasitology 74: 355-358.
- Richardson, D.J., and M.A. Barger. 2006. Redescription of Oligacanthorhynchus major (Machado Filho, 1963) Schmidt, 1972 (Acanthocephala: Oligacanthorhynchidae) from the white-lipped peccary (Tayassu pecari) in Bolivia. Comparative Parasitology 73: 157-160.
- Barger, M.A. 2006. Spatial heterogeneity in the parasite communities of creek chub (*Semotilus atromaculatus*) in southeastern Nebraska. Journal of Parasitology **92:** 230-235.
- Richardson, D.J., and M.A. Barger. 2005. Microhabitat specificity of *Macracanthorbynchus ingens* in the raccoon (*Procyon lotor*). Comparative Parasitology **72:** 173-178.
- Barger, M.A. 2005. A new species of *Neoechinorhynchus* (Acanthocephala: Neoechinorhynchidae) from turtles in Florida. Comparative Parasitology **72:** 6-9.
- Lindeman, P.V., and M.A. Barger. 2005. Acanthocephalan (*Neoechinorhynchus emydis*) infections in Texas map turtles (*Graptemys versa*). Southwestern Naturalist **50:** 12-16.
- Barger, M.A. 2004. The *Neoechinorhynchus* of turtles: distribution, host use, and specimen base. Comparative Parasitology **71:** 118-129.
- Barger, M.A., and B. B. Nickol. 2004. A key to the species of *Neoechinorhynchus* (Acanthocephala: Neoechinorhynchidae) from turtles. Comparative Parasitology **71:** 4-8.
- Barger, M.A., V.E. Thatcher, and B. B. Nickol. 2004. A new species of *Neoechinorbynchus* (Acanthocephala: Neoechinorhynchidae) from a turtle in Mexico. Comparative Parasitology **71:** 1-3.
- Esch, G.W., M.A. Barger, and J. Fellis. 2002. The transmission of digenetic trematodes: style, elegance, complexity. Integrative and Comparative Biology **42**: 304-312.
- Barger, M.A., and G.W. Esch. 2002. Host specificity and the distribution-abundance relationship in a community of parasites infecting fishes in streams of North Carolina. Journal of Parasitology 88: 446-453.
- Esch, G.W., L.A. Curtis, and M.A. Barger. 2001. A perspective on the ecology of larval trematode communities. Parasitology **123**: S57-75.
- Barger, M.A., and G.W. Esch. 2001. Downstream changes in the composition of the parasite community of fishes in an Appalachian stream. Journal of Parasitology **87:** 250-255.
- Barger, M.A., and G.W. Esch. 2000. *Plagioporus sinitsini*: A 1-host trematode life cycle. Journal of Parasitology **86:** 150-153.
- Barger, M.A., and G.W. Esch. 1999. *Allopodocotyle chiliticorum* n. sp. (Digenea: Opecoelidae) from redlip shiners, *Notropis chiliticus*, in Basin Creek, North Carolina. Journal of Parasitology **85:** 891-892.
- Barger, M.A., and B.B. Nickol. 1999. Effects of coinfection with *Pomphorhynchus bulbocolli* on development of *Leptorhynchoides thecatus* (Acanthocephala) in amphipods (*Hyalella azteca*). Journal of Parasitology **85:** 60-63.
- Barger, M.A., and B.B. Nickol. 1998. Structure of *Leptorhynchoides thecatus* and *Pomphorhynchus bulbocolli* (Acanthocephala) eggs in habitat partitioning and transmission. Journal of Parasitology **84:** 534-537.
- Barger, M.A., and J. Janovy, Jr. 1995. Host specificity of *Rhabdochona canadensis* (Nematoda: Rhabdochonidae) in Nebraska. Journal of Parasitology **80:** 1032-1035.

ARTICLES SUBMITTED/IN PREPARATION

(those marked with an * are students)

- Barger, M.A. A new species of *Allacanthochasmus* (Trematoda: Cryptogonimidae) from white bass, *Morone chrysops* (Moronidae), from Lake Livingston, Texas, U.S.A., *Submitted* Comparative Parasitology.
- Barger, M.A. A key to the species of *Caecincola* (Trematoda: Cryptogonimidae) including description of a new species, *Submitted* Comparative Parasitology.

- *Herzog, T., and M.A. Barger. A new species of *Dieffluvium* (Cestoda: Caryophyllaeidae) from smallmouth buffalo (*Ictiobus bubalus*) from the Big Thicket National Preserve, Texas, U.S.A., *Submitted* Comparative Parasitology.
- Rosser, T.G., W.A. Baumgartner, M.A. Barger, and M.J. Griffin. New data on *Myxobolus enoblei* (Cnidaria: Myxobolidae): a parasite of smallmouth buffalo *Ictiobus bubalus* (Cypriniformes: Catostomidae). *Submitted*, Comparative Parasitology.
- McAllister, C.T., M.A. Barger, and H.W. Robison. *Nerodia sipedon pleuralis* (Midland Water Snake). Acanthocephalan Parasite. *Submitted*, Herpetological Reviews.
- *Stigge, H.A., M.A. Barger, and T.J. Cook. Effects of pH and Canopy Cover on Helminth Community Structure in Western Mosquitofish (*Gambusia affinis*) from the Trinity River System in Southeastern Texas, U.S.A., *In Revision* Comparative Parasitology.
- Barger, M.A. The caryophyllaeid tapeworms of freshwater fishes in the Big Thicket National Preserve, Texas, U.S.A., *In Preparation*.

OTHER PUBLICATIONS

Why I Teach. The Peru State Times 93(1): 3; September 14, 2015, Peru State College.
Book Review: The Evolutionary Ecology of Parasites. 2008. Comparative Parasitology 75: 153-156.
What really happened in the tsunami? The Peru State Times 82(5): 7; January 31, 2005, Peru State College.
Biodiversity monitoring of fish and macroinvertebrate communities in small streams near Cedar Point Biological Station, the 2004 report. 2005. Cedar Point Biological Station, University of Nebraska—Lincoln.
Book review: Interrelationships of the Platyhelminthes. 2001. Journal of Parasitology 87: 1264.
Book review: Echinostomes as Experimental Models for Biological Research. 2001. Journal of Parasitology 87: 31.
Book review: The Parasites of Parasitology. 2000. Journal of Parasitology 86: 566.
Book review: Parasites of Homo sapiens. 1999. Journal of Parasitology 85: 336.
Book review: An Introduction to Parasitology. 1998. Journal of Parasitology 84: 1203.

PRESENTATIONS

(those marked with an * are undergraduate students; † are graduate students)

- *Herzog, T., and M.A. Barger. 2016. Taxonomic character analysis of caryophyllaeid cestode genera. Southwestern Association of Parasitologists 49th Annual Meeting, University of Oklahoma Biological Station, Oklahoma (*cancelled due to illness*).
- Barger, M.A., K. McAndrews, and G. Orcutt. 2016. Undiscovered biodiversity of parasitic helminths in fishes of Gulf Coast drainages. Southwestern Association of Parasitologists 49th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- *McAndrews, K., *G. Orcutt, *T. Herzog, and M.A. Barger. 2015. Is Parasite Biodiversity Higher in Protected Areas? A Case Study in the Big Thicket National Preserve. American Society of Parasitologists 90th Annual Meeting, Omaha, Nebraska.
- Barger, M.A., and *J. Shaffer. 2015. Caryophyllaeid Tapeworms from Freshwater Fishes in the Big Thicket National Preserve and Surrounding Areas. Southwestern Association of Parasitologists 48th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- *Dutton, H.R., and M.A. Barger. 2014. Does the Big Thicket National Preserve Protect Aquatic Communities? A Test Case Using Parasites as Proxies for Biodiversity. American Society of Parasitologists 89th Annual Meeting, New Orleans, Louisiana.
- *Dutton, H.R., and M.A. Barger. 2014. Does the Big Thicket National Preserve Protect Aquatic Communities? A Test Case Using Parasites as Proxies for Biodiversity. Southwestern Association of Parasitologists 47th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- *Wellenstein, D., and M.A. Barger. 2014. Morphological differentiation of *Homalometron* (Trematoda) species in freshwater drum (*Aplodinotus grunniens*). Southwestern Association of Parasitologists 47th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.

- *Olsen, E.B., and M.A. Barger. 2012. Anatomy of a range boundary II: Habitat structure and *Paulisentis missouriensis* in southeastern Nebraska. Southwestern Association of Parasitologists 45th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2010. Parasite diversity in the Big Thicket: Preliminary results and irresponsible speculation. Invited seminar, Department of Biology, Sam Houston State University, Huntsville, Texas.
- Barger, M.A. 2010. Ecological equivalence of two species of terrestrial snails as second intermediate hosts of *Panopistus pricei* (Trematoda: Brachylaimidae). American Society of Parasitologists 85th Annual Meeting, Colorado Springs, Colorado.
- †Robinson, H.A., M.A. Barger, and T.J. Cook. 2010. Role of environmental factors in structuring the endohelminth communities in the western mosquitofish, *Gambusia affinis*. American Society of Parasitologists 85th Annual Meeting, Colorado Springs, Colorado.
- Barger, M.A. 2010. Ecological equivalence of two species of terrestrial snails as second intermediate hosts of *Panopistus pricei* (Trematoda: Brachylaimidae). Southwestern Association of Parasitologists 43rd Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- †Robinson, H.A., M.A. Barger, and T.J. Cook. 2010. Role of environmental factors in structuring the endohelminth communities in the western mosquitofish, *Gambusia affinis*. Southwestern Association of Parasitologists 43rd Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2009. Panel Discussion. 7th International Acanthocephalan Workshop. University of Maine Biological Station, Walpole, Maine.
- Barger, M.A. 2008. A Socratic dialogue on being a biologist. Sam Houston State University, Research Experience for Undergraduates Program, Huntsville, Texas.
- *Robinson, H.A., and M.A. Barger. 2008. Effect of post-cyclic transmission on microhabitat use of *Paulisentis missouriensis* (Acanthocephala) in creek chub. American Society of Parasitologists 83rd Annual Meeting, Arlington, Texas.
- *Robinson, H.A., and M.A. Barger. 2008. Effect of post-cyclic transmission on microhabitat use of *Paulisentis missouriensis* (Acanthocephala) in creek chub. Southwestern Association of Parasitologists 41st Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2007. The anatomy of a range boundary: *Paulisentis missouriensis* (Acanthocephala) in southeastern Nebraska. Annual Midwestern Conference of Parasitologists 59th Meeting, University of Wisconsin, Oshkosh, Oshkosh, Wisconsin.
- Barger, M.A. 2007. The anatomy of a range boundary: *Paulisentis missouriensis* (Acanthocephala) in southeastern Nebraska. Southwestern Association of Parasitologists 40th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2007. Biodiversity inventory of parasites in the Big Thicket. 2007 Big Thicket Conference, Beaumont, Texas.
- Barger, M.A. 2006. Scale, levels of organization, and perspectives on parasite community similarity. The Helminthological Society of Washington 691st Meeting, McDaniel College, Maryland.
- *Robinson, H.A., and M.A. Barger. 2006. Microhabitat specificity of *Paulisentis missouriensis*. Southwestern Association of Parasitologists 39th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2005. Watershed patterns of parasite community structure in creek chub in southeastern Nebraska. American Society of Parasitologists 80th Annual Meeting, Mobile, Alabama.
- *Hall, J.R., and M.A. Barger. 2004. Stream order and connectivity as determinants of parasite community structure in creek chub in Nebraska. Southwestern Association of Parasitologists 37th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2004. Lessons in obscurity: The acanthocephalan chronicles. Invited seminar, Department of Biology, Sam Houston State University, Huntsville, Texas.
- Barger, M.A. 2003. Life cycle dissection, transmission success, and landscape ecology. Panel presentation, Student Symposium, "Current Topics and Future Directions in Ecology and Evolution," American Society of Parasitologists 78th Annual Meeting, Halifax, Canada.

- *Hall, J.R., and M.A. Barger. 2003. Population dynamics of *Crepidostomum cooperi* in green sunfish, *Lepomis cyanellus*, in Ray's Pond, Southeast Nebraska. Southwestern Association of Parasitologists 36th Annual Meeting, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 2002. Life cycle and transmission of *Plagioporus sinitsini*. Southwestern Association of Parasitologists, University of Oklahoma Biological Station, Oklahoma.
- Esch, G.W., M.A. Barger, and J. Fellis. 2001. The transmission of digenetic trematodes: style, elegance, complexity. Society for Integrative and Comparative Biology, Chicago, Illinois.
- Barger, M.A. 2001. Community ecology of the parasites inhabiting fishes in Appalachian streams. Wake Forest University, Winston-Salem, North Carolina.
- Barger, M.A. 2000. Colonization, extinction and persistence in parasitic helminths: the importance of transmission ecology. Peru State College, Peru, Nebraska.
- Barger, M.A., and G.W. Esch. 2000. The effects of spatial heterogeneity on the richness and composition of the fish parasite community of Basin Creek, North Carolina. American Society of Parasitologists 75th Annual Meeting, San Juan, Puerto Rico.
- Barger, M.A., and G.W. Esch. 2000. The effects of spatial heterogeneity on the richness and composition of the fish parasite community of Basin Creek, North Carolina. Southeastern Society of Parasitologists, Chattanooga, Tennessee.
- Barger, M.A. 1999. A one-host trematode life cycle: *Plagioporus sinitsini* in prosobranch snails *Elimia symmetrica*. American Society of Parasitologists 74th Annual Meeting, Monterey, California.
- Barger, M.A. 1999. A one-host trematode life cycle: *Plagioporus sinitsini* in prosobranch snails *Elimia symmetrica*. Southeastern Society of Parasitologists, Auburn University, Alabama.
- Barger, M.A. 1999. Can the exception be the rule: a bar-napkin treatise on the ecology and evolution of trematode life cycles. Wake Forest University, Winston-Salem, North Carolina.
- Barger, M.A. 1997. Structure of *Leptorhynchoides thecatus* and *Pomphorhynchus bulbocolli* (Acanthocephala) eggs in habitat partitioning, transmission and host use. American Society of Parasitologists 72nd Annual Meeting, Nashville, Tennessee.
- Barger, M.A. 1997. Structure of *Leptorhynchoides thecatus* and *Pomphorhynchus bulbocolli* (Acanthocephala) eggs in habitat partitioning, transmission and host use. Southwestern Association of Parasitologists, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 1995. Parasites: what they look like, what they do, and why they are important. Presented to biology class, Lincoln High School, Lincoln, Nebraska.
- Barger, M.A. 1994. Life cycle and host specificity of *Rhabdochona canadensis* (Nematoda: Rhabdochonidae) in Nebraska. American Society of Parasitologists 69th Annual Meeting, Ft. Collins, Colorado.
- Barger, M.A. 1994. Life cycle and host specificity of Rhabdochona canadensis (Nematoda: Rhabdochonidae) in Nebraska. Southwestern Association of Parasitologists, University of Oklahoma Biological Station, Oklahoma.
- Barger, M.A. 1994. Life cycle and host specificity of *Rhabdochona canadensis* (Nematoda: Rhabdochonidae) in Nebraska. School of Biological Sciences Student Symposium, University of Nebraska--Lincoln, Lincoln, Nebraska.

GRANTS

(those marked with an * are submissions by students)

- RUI: Survey and Inventory of Parasites of Fishes from the Big Thicket National Preserve; National Science Foundation Biodiversity Discovery and Analysis. *Submitted* July, 2012. \$342,214. *Funded*, \$267,000.
- Pre-proposal: RUI: Survey and Inventory of Parasites of Fishes from the Big Thicket National Preserve; National Science Foundation Biodiversity Discovery and Analysis. *Submitted* January, 2012. *Invited to Full Panel.*
- Continuing Grant, Biodiversity Survey and Inventory of Aquatic Ectotherms and their Parasites in the Big Thicket. Big Thicket Association. *Submitted* January, 2012. \$2,103. *Funded*.
- RUI: Survey and Inventory of Parasites of Fishes from the Big Thicket National Preserve; National Science Foundation Biodiversity Discovery and Analysis. *Submitted* July, 2011. \$368,965. *Not Funded*.

- Continuing Grant, Biodiversity Survey and Inventory of Aquatic Ectotherms and their Parasites in the Big Thicket. Big Thicket Association. *Submitted* July, 2009. \$5,390. *Funded*.
- Continuing Grant, Biodiversity Survey and Inventory of Aquatic Ectotherms and their Parasites in the Big Thicket. Big Thicket Association. *Submitted* July, 2008. \$1,800. *Funded*.
- Continuing Grant, Biodiversity Survey and Inventory of Aquatic Ectotherms and their Parasites in the Big Thicket. Big Thicket Association. *Submitted* December, 2008. \$1,000. *Funded*.
- Biodiversity Survey and Inventory of Aquatic Ectotherms and their Parasites in the Big Thicket: A Proposal to Establish a Taxonomic Working Group (TWIG) and for Preliminary Sampling. Big Thicket Association. *Submitted* October, 2006. \$1,259. *Funded*.
- *Microhabitat Specificity of Helminths in the Intestine of Creek Chub, Southwestern Association of Parasitologists. *Submitted* March, 2005. \$250. *Funded*.
- Evolution and Taxonomy of the Nearctic *Neoechinorhynchus*; National Science Foundation CAREER. *Submitted* July 20, 2004. \$520,831. *Not funded*.
- Biodiversity Monitoring of Fish and Invertebrate Communities in Small Streams; Environmental Monitoring Research, Cedar Point Biological Station, University of Nebraska—Lincoln. *Submitted* Jan, 2004. \$4,975. *Funded*.
- Parasites of Nearctic Freshwater Turtles; National Science Foundation Biotic Surveys and Inventories, Collaboration with R.E. Clopton, J. Hinda and S.D. Snyder. *Submitted* Jan. 10, 2003. \$311,497. *Not funded*.

HONORS AND AWARDS

Sabbatical Award, Peru State College, 2010 (Biodiversity Survey of Parasites of Fishes in the Texas Big Thicket).

George Rebensdorf Board of Trustees' Teaching Excellence Award, Nebraska State College System, 2009. Teacher Excellence Award, Peru State College, 2009.

RESEARCH INTERESTS

Landscape and community ecology with emphasis on spatial patterns and processes.

Host specificity with emphasis on consequences for understanding scaling laws in parasite communities. Abiotic and biotic determinants of parasite transmission.

Local and regional determinants of fish community structure.

Acanthocephalan evolution, ecology and life cycles.

Aquatic ecology; Invertebrate ecology.

CURRENT RESEARCH PROJECTS

Biodiversity inventory of parasites in the Texas Big Thicket. Stream interconnectedness and parasite community structure in creek chub in Nebraska. Regional-local relationships and species diversity of fishes and parasites in Nebraska watersheds. Life cycles and ecology of trematode metacercaria in terrestrial snails.

TEACHING

Peru State College

Honors Orientation (2008-09, 2011); Biodiversity (2006, 07); General Biology (2003, 05, 08); Freshwater Biology (2002, 05, 07, 13); Limnology (2002, 04, 06, 08, 11, 12, 14, 16); Conservation and Management (2004, 06, 08, 10, 12, 14); Wildlife Management Techniques (2002, 04, 06, 08, 12, 14, 16); Science and Society, Honors (2002-03); Introductory Zoology (2001-16); Ecology (2001, 03, 05, 06, 07, 09, 11, 13, 15); Advanced Ecology (2004); Experimental Biology (2008, 10, 12, 16); Biology of the Ectotherms: Ichthyology and Herpetology (2003, 05, 07, 09, 11, 13); Microscopic Monarchs: Disease in History (2011, 12, 13, 15); Portrayals of Nature (2012); College Success (2016).

Wake Forest University

Biological Principles Lab (1997-2000); Parasitology Lab (2000); Guest lecturer, Biology 111 (1999, 2001); Guest lecturer, Biology 321 (2000); Guest lecturer, Biology 113 (2000); Guest lecturer, Biology 331 (1999); Supervisor, Independent Undergraduate Research (3 students).

University of Nebraska—Lincoln

Parasitology Lab (1996-1997); Introductory Zoology Lab (1993-1994); At Cedar Point Biological Station: Field Parasitology (1997); Natural History of the Invertebrates (1995-1997); Vertebrate Zoology (1995).

RESEARCH STUDENTS

Undergraduate

Sydney Van Scyoc, Peru State College, 2017-present.

Camillia Heath, Peru State College, Big Thicket Collections, 2016-2017.

Taylor Herzog, Peru State College, Revision of *Dieffluvium* and description of new species, 2015-present. Gunnar Orcutt, Peru State College, Morphometrics of *Glaridacris* species, 2015-present.

Kyle McAndrews, Peru State College, Description of a new species of *Caecincola* from white crappie, 2014-2016.

Hayden Kusy, Peru State College, Description of Macroderoides species in gar and bowfin, 2013-2014.

- James Shaffer, Peru State College, Morphometrics of *Glaridacris laruei* (Cestoda: Caryophyllaeidae), 2013-2014.
- Drew Wellenstein, Peru State College, Taxonomy of Homalometron (Trematoda) species, 2013-2014.
- Haley Dutton, Peru State College, Comparison of parasite diversity in catfishes within an outside the Big Thicket National Preserve, 2011-2014.
- Courtney Bryant, Peru State College, Taxonomy of parasites from the Texas Big Thicket, 2013.
- Dawn Plympton & Robert Plympton, Peru State College, Insect diversity in southeastern Nebraska, 2013, *internship*.
- Jacob Schaben, Peru State College, Winter transmission of two trematodes in shrews, 2012-2013.
- Joe Helseth, Peru State College, Winter transmission of two trematodes in shrews, 2012-2013.
- Eli Olsen, Peru State College, Habitat structure's influence on the distribution of *Paulisentis missouriensis*, 2011-2012.
- Jacob Diedrichsen, Peru State College, Ecology of parasites of catfishes, 2011-2012.

Heather Robinson, Peru State College, Microhabitat specificity of helminths in the intestine of creek chub, 2005-2008.

Stacy Fitch, Peru State College, Seasonal Patterns of Infectivity of Metacercariae of *Posthodiplostomum minimum* in Bluegill Sunfish, 2005-2006 (with D. Welsh).

Nicholas Sims, Peru State College, Infracommunity dynamics of coccidians in turtles, 2004-2005 (with J. Hnida).

Austin Budden, Peru State College, Parasite community structure in creek chub, 2003-2004.

Dusty Schelbitzki, Peru State College, Comparative community structure of parasites inhabiting channel catfish, *Ictalurus punctatus*, in the Blue River System, NE, 2003-2004.

- Tim Seifert, Peru State College, Life cycle and transmission of acanthocephalan parasites of freshwater turtles, 2002-2003; Description of a new species of *Neoechinorhynchus*, 2003.
- Jerrod Hall, Peru State College, Transmission and temporal dynamics of *Crepidostomum cooperi* in a small pond, 2002-2003; Downstream changes in the parasite community of creek chub, *Semotilus atromaculatus*, 2003-2004.
- Andrea Schank, Peru State College, Delineation of *Posthodiplostomum* (Trematoda) species using *in vitro* techniques, 2001-2002 (with R. E. Clopton).

Graduate

Heather Robinson, Sam Houston State University, 2008-2010 (Graduate Committee).

PEDAGOGICAL IMPROVEMENTS

Contributor, Comprehensive Curriculum Revision, Department of Natural Science, Peru State College, 2014. Chair, General Education Committee, Design and implementation of new Honors Program, Peru State

College, 2007-2008.

Coordinator, Wildlife Ecology Internship Program, Department of Natural Science, Peru State College, 2002current.

Contributor, Comprehensive Curriculum Revision, Department of Natural Science, Peru State College, 2001.

Courses developed/revised/taught (date indicates initial development):

Disease and Epidemiology, 2017.

Vertebrate Diversity, 2017 (with lab).

Portrayals of Nature, 2011.

Microscopic Monarchs: Disease in History, 2008.

Honors Orientation, Peru State College, 2008.

Biodiversity, Peru State College, 2006 (online, with lab).

Ecology, Peru State College, 2001 (with lab).

Advanced Ecology, Peru State College, 2004.

Introductory Zoology, Peru State College, 2001 (with lab revision).

Science and Society, Peru State College, 2002.

Limnology, Peru State College, 2002 (with lab).

Wildlife Management Techniques, 2002, 2004 (with lab).

Conservation and Management, 2004.

Freshwater Biology, Peru State College, 2002 (with lab).

General Biology, Peru State College, 2002; lab (2004).

Biology of the Ectotherms: Ichthyology and Herpetology, Peru State College, 2003 (with lab).

Co-author (with A. Dan Johnson, Core Coordinator), Biological Principles Lab Manual, Wake Forest University Department of Biology, 2000.

COMMITTEE ASSIGNMENTS

Member, Search Committee, Dean of Arts & Sciences, Peru State College, 2017.

Arts & Sciences Representative, Faculty Senate, Peru State College, 2016-2018.

Member, Search Committee, Vice President for Academic Affairs, Peru State College, 2015.

Rotating Member, Faculty Senate, Peru State College, 2005-2006; 2011-2012; 2015-2016.

Member, Teaching and Education Committee, Higher Learning Commission Accreditation Committee, Peru State College, 2010.

Member, Search Committee, Dean of Professional Studies, Peru State College, 2009.

Presidential Search Advisory Committee, Peru State College, 2008-2009.

Chair, Faculty Senate, Peru State College, 2008-2009.

Chair, General Education Committee, Peru State College, 2007-2008.

Chair-elect, Faculty Senate, Peru State College, 2007-2008.

Teacher Education Committee, Peru State College, 2006-2008.

Honors Committee, Peru State College, 2004-2006; 2016-present.

Student Judicial Appeals Board, Peru State College, 2002-2003.

General Education Committee, Peru State College, 2002-2003.

Environmental Health Committee, Peru State College, 2002-2008.

Library Committee, member, Peru State College, 2001-2002.

Graduate student representative to faculty (elected), Department of Biology, Wake Forest University, 2000-2001.

Member, Graduate Program Review Committee, Department of Biology, Wake Forest University, 2000-2001. Student Workshop Committee, American Society of Parasitologists, 1996.

REVIEWER

National Science Foundation *ad hoc* reviewer and invited panelist for grants in BSI, PEET, PBI, and Systematics; Journal of Parasitology; International Journal for Parasitology; Sarsia; Folia Parasitologica; Behavioral Ecology; Comparative Parasitology; American Midland Naturalist; Arkansas Academy of Sciences; Southwestern Naturalist; Zootaxa.

OFFICES AND POSITIONS HELD

Nominating & Tellers Committee, American Society of Parasitologists, 2016-2017. President-elect, Southwester Association of Parasitologists, 2016-2017. Priorities & Planning Committee, American Society of Parasitologists, 2015-2016. Council Member At-Large, American Society of Parasitologists, 2008-2012. Acting Editor, Comparative Parasitology, 2007, 2008. Vice-President, The Helminthological Society of Washington, 2005-2006. President, Southwestern Association of Parasitologists, 2005-2006. Member, Business Advisory Committee, The Helminthological Society of Washington, 2005-2006. Chair, Student Awards Committee, American Society of Parasitologists, 2004-2007. Chair, Membership Committee, The Helminthological Society of Washington, 2004-2006. President-elect, Southwestern Association of Parasitologists, 2004-2005. Member, Student Awards Committee, American Society of Parasitologists, 2003-2004. Member, Editorial Board, Comparative Parasitology, 2003-present. Representative to Council of the American Society of Parasitologists, Southwestern Association of Parasitologists, 2003-2004. Invited panelist and speaker, Student Symposium, American Society of Parasitologists, 78th Annual Meeting, Halifax, Nova Scotia, Canada, August 2003. Consultant, Arthropod classification and curation, NSF-DEB 9705179, 2001. Preparator, Biology 111, Wake Forest University, 2001.

SOCIETY MEMBERSHIPS

Ecological Society of America. Helminthological Society of Washington. Southwestern Association of Parasitologists.