

CURRICULUM VITAE - LANCE R. WILLIAMS

Associate Professor

Department of Biology
University of Texas at Tyler
3900 University Blvd.
Tyler, TX 75799

Voice: 903-565-5878
Cell: 614-477-0264
Fax: 903-566-7189
Email: williams.2323@osu.edu

EDUCATION

Ph.D. 2000 Mississippi State University, Biological Sciences. Advisor: Dr. Christopher M. Taylor. Dissertation Title: *The role of regional and local factors in structuring Ouachita Mountain stream assemblages.*

M.S. 1997 Oklahoma State University, Zoology. Advisor: Dr. Anthony A. Echelle. Thesis Title: *Population viability analysis for the leopard darter (Percidae: Percina pantherina).*

B.S. 1994 University of Oklahoma, Zoology

PROFESSIONAL EXPERIENCE

2007-Present Associate Professor, Department of Biology, University of Texas at Tyler
2002-2007 **Assistant Professor of Stream Ecology and Fisheries**, School of Environment and Natural Resources, The Ohio State University
2006-2007 **Adjunct Faculty**, Department of Biological Sciences, Bowling Green State University
2002-2002 **Assistant Professor of Biology**, Louisiana College
2001 **Contract Researcher**, USDA Forest Service
2000 **Research Associate**, Department of Biological Sciences, Mississippi State University
1997-2000 **Graduate Research and Teaching Assistant**, Department of Biological Sciences, Mississippi State University
1998-2000 **Adjunct Faculty**, Division of Science, Mississippi University for Women
1994-1997 **Graduate Research and Teaching Assistant**, Department of Zoology, Oklahoma State University
1993-1994 **Research Technician**, Oklahoma Natural Heritage Inventory, University of Oklahoma & Oklahoma Fisheries Research Lab, Oklahoma Department of Wildlife Conservation

TEACHING EXPERIENCE

General Biology I (BIOL 1306, U. of Texas at Tyler)
Phylogenetic Systematics (BIOL 5366, U. of Texas at Tyler)

Watershed Ecology and Restoration (ENR 770, The Ohio State University)
Quantitative Methods for Natural Resources (ENR 822, The Ohio State University)
Ecology and Management of Aquatic Invertebrates (NR 627, The Ohio State University)
Ichthyology (ENR 694, The Ohio State University & BIO 4513, Mississippi State University & ZOO 4414, Oklahoma State University)
Professional Survey of Forestry, Fisheries, and Wildlife (ENR 119, The Ohio State Univ.)
Field Techniques in Fisheries Management (ENR 626, The Ohio State University)
Research in Natural Resources (ENR 800, The Ohio State University)
Experimental Design in Ecology (ENR 694, Stone Laboratory Field Station and ZOO 4970/6970, University of Oklahoma Bio. Station)
Biology Seminar (BI 445, Louisiana College)
General Biology II (Zoology) (BI 115/116, Louisiana College)
Field Biology (BI 202, Louisiana College)
General Biology I (Botany) (BI 113/114, Louisiana College)
General Ecology (BI 431/432 Louisiana College & BIO 3104, Mississippi State University)
College Connection – Freshman Orientation (CC 100, Louisiana College)
Introduction to Biology I (BSB 101, Mississippi University for Women)
Introduction to Biology II (BSB 102, Mississippi University for Women)
General Zoology (BIO 1504, Mississippi State University)

PEER REVIEWED PUBLICATIONS

18. **Williams, L.R.**, M.G. Williams, J.D. Hudson III, V. Campbell-Arvai, and T.L. Bonner. 2007. Evaluation of a stream system after clearcut logging disturbance in the Gulf coastal plain. *Journal of Freshwater Ecology* 22:119-133.
17. **Williams, L.R.**, M.G. Williams, A. Grubh, E. Swinehart, and R. Standage. 2006. Food habits of the federally threatened leopard darter (*Percina pantherina*). *American Midland Naturalist* 156:208-211.
16. Morris, A.E.L., P.C. Goebel, **L.R. Williams**, and B.J. Palik. 2006. Influence of landscape geomorphology on large wood jams and salmonids in an old-growth river of Upper Michigan. *Hydrobiologia* 556:149-161.
15. Taylor, C.M., T.L. Holder, R.A. Fiorillo, **L.R. Williams**, R.B. Thomas, and M.L. Warren Jr. 2006. Distribution, abundance, and diversity of upland stream fishes under variable environmental conditions. *Canadian Journal of Fisheries and Aquatic Sciences* 63(1):43-54.
14. **Williams, L.R.**, T.H. Bonner, J.D. Hudson III, M.G. Williams, T.R. Leavy, and C.S. Williams. 2005. Interactive effects of environmental variability and military training on stream biota of three headwater drainages in Western Louisiana. *Transactions of the American Fisheries Society* 134:192-206.
13. **Williams, L.R.**, and A.E.L. Morris. 2005. Book review – The ecology and management of wood in world rivers, Symposium 37, American Fisheries Society. *Transactions of the American Fisheries Society* 134: 1366-1367.
12. **Williams, L.R.**, M.L. Warren Jr., S.B. Adams, J.L. Arvai, and C.M. Taylor. 2004. Basin

- visual estimation technique (BVET) and representative reach approaches to wadeable stream surveys: methodological limitations and future directions. *Fisheries* 29(8):12-22.
11. **Williams, L.R.**, C.M. Taylor, M.L. Warren, Jr., and J.A. Clingenpeel. 2004. The role of regional factors in structuring Ouachita Mountain stream assemblages. Pp. 231-238 *In: Ouachita and Ozark Mountains symposium: ecosystem management research. Edited by J.M. Guldin. USDA Forest Service, Southern Research Station. Gen Tech Rep. SRS-74. Asheville, North Carolina.*
 10. Taylor, C.M., **L.R. Williams**, R.A. Fiorillo, R.B. Thomas, and M.L. Warren, Jr. 2004. Fish assemblage structure under variable environmental conditions in the Ouachita Mountains. Pp. 239-245 *In: Ouachita and Ozark Mountains symposium: ecosystem management research. Edited by J.M. Guldin. USDA Forest Service, Southern Research Station. Gen Tech Rep. SRS-74. Asheville, North Carolina.*
 9. **Williams, L.R.**, C.M. Taylor, M.L. Warren, Jr., and J.A. Clingenpeel. 2003. Environmental variability, historical contingency, and the structure of regional fish and macroinvertebrate faunas in Ouachita Mountain stream systems. *Environmental Biology of Fishes* 67:203-216.
 8. **Williams, L.R.**, C.M. Taylor, and M.L. Warren, Jr. 2003. Influence of fish predation on assemblage structure of macroinvertebrates in an intermittent stream. *Transactions of the American Fisheries Society* 132:120-130.
 7. **Williams, L.R.**, C.M. Taylor, M.L. Warren, Jr., and J.A. Clingenpeel. 2002. Large-scale effects of timber harvesting on stream systems in the Ouachita Mountains, Arkansas, USA. *Environmental Management* 29:76-87.
 6. **Williams, L.R.**, Crosswhite, D.L., and M.G. Williams. 2002. Short-term effects of riparian disturbance on *Desmognathus brimleyorum* (Plethodontidae) at a natural spring in Oklahoma. *Southwestern Naturalist* 47:611-613.
 5. **Williams, L.R.**, A.A. Echelle, C.S. Toepfer, M.G. Williams, and W.L. Fisher. 1999. Simulation modeling of population viability for the leopard darter (Percidae: *Percina pantherina*). *Southwestern Naturalist* 44:470-477.
 4. Echelle, A.F., A.A. Echelle, **L.R. Williams**, C.S. Toepfer, and W.L. Fisher. 1999. Allozyme perspective on genetic variation in a threatened percid fish, the leopard darter (*Percina pantherina*). *American Midland Naturalist* 142:393-400.
 3. **Williams, L.R.**, and A.A. Echelle. 1998. Collection in Oklahoma of a rare fish species, *Notropis chalybaeus* (Cyprinidae). *Proceedings of the Oklahoma Academy of Science* 78:115-116.
 2. Toepfer, C.S., **L.R. Williams**, A.D. Martinez, and W.L. Fisher. 1998. Fish and habitat heterogeneity in four Central Oklahoma/Texas Plains Ecoregion streams. *Proceedings of the Oklahoma Academy of Science* 78:41-48.
 1. **Williams, L.R.**, C.S. Toepfer, and A.D. Martinez. 1996. The relationship between fish assemblages and environmental gradients in an Oklahoma prairie stream. *Journal of Freshwater Ecology* 11: 459-468.

MANUSCRIPTS IN REVIEW

6. D'Ambrosio, J.L., **L.R. Williams**, J.D. Witter, and A. Ward. *In review*. Effects of geomorphology, habitat, and spatial location on fish assemblages in a Midwestern watershed in Ohio. Environmental Monitoring and Assessment.
5. Morris, A.E.L., **L.R. Williams**, P.C. Goebel, and B.J. Palik. *In review*. Association of brook trout (*Salvelinus fontinalis*) and other fish with large wood jams in a northern old-growth watershed. North American Journal of Fisheries Management.
4. Beck, S.E., **L.R. Williams**, and J.D. Hudson III. *In review*. Impacts of timber harvesting activities on macroinvertebrate drift in headwater streams of west-central Louisiana, USA. *To be sent to Hydrobiologia*.
3. **Williams, L.R.**, K. Lafay, and A. Shyjka, and J.D. Hudson III. *In prep*. Food habits of the brown madtom (*Noturus phaeus*) in west-central Louisiana streams. *To be sent to Southeastern Naturalist*.
2. Williams, M.G., **L.R. Williams**, J. Witter, A. Jayakaran, E. Powell, C.M. Taylor, and M.L. Warren Jr. *in prep*. Shifts in macroinvertebrate assemblage structure in response to drying in intermitten headwater streams. *To be sent to Oikos*.
1. Holmes, K.L., P.C. Goebel, M. Schrecengost, and **L.R. Williams**. *In prep*. Understanding habitat and predator influences on macroinvertebrate assemblages along headwater streams in Northeast Ohio. *To be sent to Journal of Freshwater Ecology*.

TECHNICAL REPORTS

11. D'Ambrosio, J.D., A. Ward, J. Witter, K. King, and **L. Williams**. 2005. Olentangy River watershed total maximum daily load study. Ohio EPA.
10. Moore, R., D. McCartney, **L. Williams**, M. Wood, J. Christner, P. Anderson, J. Kwolek, R. Ramseyer, S. Ankrom, D. Miklos, L. Grant, D. Hudgins, S. Long, J. Parker, K. Prasad, B. Stinner. 2005. A Plan to Reduce Phosphorus Loading and Improve Stream Ecological Function in the Middle Fork and Adjoining Watersheds of the Sugar Creek Watershed: Joint Recommendations for the Alpine Cheese Phosphorus Nutrient Trading Plan. Alpine Cheese Company NDPEs Permit Application to Ohio EPA. Ohio EPA. 49 pages.
9. Williams, M.G., and **L.R. Williams**. 2005. Conservation assessment: Ohio lamprey *Ichthyomyzon bdellium*. USDA Forest Service, Eastern Region. (<http://www.fs.fed.us/r9/wildlife/tes/ca-overview/fish.html>)
8. **Williams, L.R.**, M.G. Williams, A. Grubh, and E. Swinehart. 2005. Food habits of the federally threatened leopard darter. Final Report – USDA Forest Service.
7. Lynch, W., and **L.R. Williams**. 2005. Apple Valley Lake fish populations: status and recommendations II. Final Report – Apple Valley Property Owners Association.
6. **Williams, L.R.**, M.G. Williams, and V. Campbell-Arvai. 2005. Impacts of sedimentation on lotic communities in a Coastal Plain stream system in western Louisiana (Ft Polk, U.S. Army, Louisiana). Final Report, U.S. Army.
5. Lynch, W., and **L.R. Williams**. 2004. Apple Valley Lake fish populations: status and recommendations. Final Report – Apple Valley Property Owners Association.
4. **Williams, L.R.**, and M.G. Williams. 2004. Evaluation of stream and riparian enhancement opportunities for the Hellbranch Watershed in Central Ohio. Final Report – Fuller,

- Mossbarger, Scott, and May Engineers, Inc. and U.S. Army Corps of Engineers.
3. **Williams, L.R.**, T.H. Bonner, M.G. Williams, C.S. Williams, and T. Leavy. 2003. A survey of fishes and macroinvertebrates inhabiting streams of Peason Ridge Wildlife Management Area (Ft. Polk, US Army, Louisiana). Final Report, US Army.
 2. Bonner, T.H., **L.R. Williams**, C.S. Williams, M. Keegan, S. Raborn, D. Byrd, and D. Hudson. 2003. Spatial and temporal trends in assemblage structure and habitat associations for stream fishes of Louisiana and east Texas with notes on reproduction and feeding habits of the sabine shiner. Final Report, National Fish and Wildlife Foundation, General Conservation 2001, Washington D.C.
 1. Echelle, A.A., **L.R. Williams**, A.F. Echelle, and W.L. Fisher. 1998. Population viability analysis and genetic structure in the leopard darter. Final Report, Research Work Order 17. Department of Interior, USGS, Biological Resources Division, Reston, Virginia.

RESEARCH GRANTS (TOTAL \$5,124,210)

2007-2012	National Science Foundation . Linking watershed research and GK-12 education within an ecosystem context. \$2,958,177
2006-2008	USDA Forest Service . Aquatic ecological monitoring in the Wayne National Forest, Ohio. \$40,000
2006-2008	Ohio Department of Natural Resources (ODNR) . A Watershed Approach to Evaluating Stream Enhancement and Restoration in Ohio's Focus Watersheds. \$125,631
2006-2008	Ohio Department of Natural Resources (ODNR) . 2006-2008. Assessment and monitoring for the Olentangy River 319 ditch project. \$152,500
2006-2008	Ohio Agricultural Research and Development Center (OARDC) . Association of salamanders and downed wood in riparian forests of headwater streams in the Cuyahoga Valley National Park. \$49,793
2005-2007	CONSOL Energy . Analysis of alternatives for restoring a coal slurry impoundment and refuse pile at the Meigs Mine No. 31 site: assessment of current wildlife utilization and potential for wildlife habitat development. \$63,100
2005-2008	USDA CSREES . Landscape scale disturbances in an agroecosystem: impacts on aquatic and riparian environments in the Sugar Creek Watershed, Ohio. \$590,000
2005-2007	U.S. EPA . Understanding ecological processes in channelized headwater systems is a key to ecosystem protection while maintaining crop production. \$382,718
2005-2007	Ohio Agricultural Research and Development Center (OARDC) and Alpine Cheese . Evaluation of Innovative Conservation Measures in a Phosphorus Nutrient Trading Program in the Sugar Creek Watershed of Ohio (Alpine Cheese). \$100,000
2004-2005	ESA Environmental Specialists, Inc. & U.S. Army . Stream biomonitoring at Peason Ridge, Fort Polk, Louisiana. \$200,197
2004-2005	Ohio EPA , Olentangy River watershed TMDL study. \$104,974
2003-2004	ESA Environmental Specialists, Inc. & U.S. Army . Development of a Stream Biomonitoring Program for Fort Polk and Peason Ridge Wildlife Management

- Area, Louisiana. **\$124,447**
- 2003-2005 **USDA Forest Service**. Food habits of the federally threatened leopard darter (*Percina pantherina*). **\$11,141**
- 2003-2004 **Ohio Sea Grant**. Influence of Landscape Hierarchies on Food Web Structure in a Lower Great Lakes River System. **\$4,862**
- 2003-2004 **Ohio Agricultural Research and Development Center (OARDC)**. Influence of landscape hierarchies on food web structure in the Cuyahoga River system. **\$25,000**
- 2002-2003 **ESA Environmental Specialists, Inc. & U.S. Army**. Stream biomonitoring at Peason Ridge, JRTC & Fort Polk, Louisiana. **\$54,970**
- 2001-2003 **URS Corporation & U.S. Army**. Aquatic biomonitoring at Fort Polk, Louisiana. **\$85,000**
- 2001-2002 **National Fish and Wildlife Foundation**. Spatial and temporal fish assemblage structures and habitat associates in streams of Louisiana and east Texas. **\$17,920**
- 2000-2001 **USDA Forest Service**. Community dynamics in small Ouachita Mountain streams, Phase II. **\$15,000**
- 1999-2000 **USDA Forest Service**. Community dynamics in small Ouachita Mountain streams. **\$30,000**
- 1999 **USDA Forest Service**. Effects of riparian disturbance on habitat suitability for plethodontid salamanders at Horsethief Spring, LeFlore County, Oklahoma, and status of the Rich Mountain salamander. **\$1000**
- 1997-1998 **USDA Forest Service**. Effects of riparian disturbance on habitat suitability for plethodontid salamanders at Horsethief Spring, LeFlore County, Oklahoma, and status of the Rich Mountain salamander. **\$4000**

HONORS AND AWARDS

- 2006 **Price Advising Award**, College of Food Agricultural and Environmental Sciences (awarded for outstanding advising)
- 2002 & 2004 **Who's Who Among America's Teachers**
- 1998 **Best Student Presentation**. Annual Meeting of the Mississippi and Louisiana Chapters of the American Fisheries Society
- 1997 **Outstanding MS Graduate Student in Zoology**. Oklahoma State University

PROFESSIONAL SERVICE

Reviewer – Books & Journals

- Transactions of the American Fisheries Society (2002, 2004, 2005, 2007)
- Hydrobiologia (2006) x 2
- Copeia (2006)
- Environmental Management (2005)
- USDA, ARS – one manuscript (2005)
- Oecologia (2005 – 2 papers)

- NRCS Stream Design Guide NEH 654 – one chapter (2005)
- *The Ecology and Management of Wood in World Rivers* by S.V. Gregory et al. American Fisheries Society (2004)
- Ecological Modeling (2004)
- Bulletin of Marine and Freshwater Research (2004)
- Ecological Engineering (2003, 2004, 2005)
- Ecography (2003)
- Transactions of the American Society of Agricultural Engineers (2003)
- Proceedings of the 14th Central Hardwoods Research Conference (2003)
- *Environmental Hydrology, 2nd edition* by Ward and Trimble. CRC Lewis Publishers (2003)
- Southeastern Naturalist (2002, 2003).
- *Biology, 6th Edition* by Raven and Johnson. McGraw Hill (2002).
- *General Ecology Laboratory Manual* by Cox. McGraw Hill (2002).
- American Midland Naturalist (2001, 2002).
- *Ecology Action Guide*. Benjamin/Cummings Publishing Co. (2001).
- *Inquiry into Life* by Sylvia Mader. McGraw Hill (2001).
- *Vertebrate Biology* by Donald Linzey. McGraw Hill (2000).
- Hydrobiologia (2000).
- North American Journal of Fisheries Management (1999).
- Proceedings of the Southeastern Association of Fish and Wildlife Agencies (1997).

Service Activities – The Ohio State University

- Search Committee Member – Kellogg Endowed Chair in Agroecosystem Ecology (2006)
- Graduate Studies Committee, School of Natural Resources (2004-2005)
- Academic Affairs Committee, School of Natural Resources (2004-2007)
- Ohio Center for Wetland and River Restoration Advisory Committee (2004-2007)
- Symposium Chair, Stream and Watershed Management. School of Natural Resources 2004 Graduate Student Symposium.
- Faculty Judge, College of Food Agricultural and Environmental Sciences – Undergraduate Research Forum (2004)
- Participant – AIC Workshop, The Ohio State University (2004)
- Symposium Chair, The Aquatic Environment. School of Natural Resources 2003 Graduate Student Symposium, The Ohio State University.
- Member Rural-Urban Task Force, The Ohio State University

Service Committees – Other Universities

- Curriculum Committee, Louisiana College (2001-2002).
- Teaching Assistant Panel, Mississippi State University (1998).
- Graduate Committee, Oklahoma State University (1996-1997).
- Planning Committee, Oklahoma State University (1995-1996).

Other Professional Activities

- Review Panel – USDA CSREES 406 Water Quality, Washington D.C. (6/2006)
- Continuing Education Committee, American Fisheries Society National Chapter (2005-present).
- Board Member – Water Management Association of Ohio. 2005-2007
- Review Panel – Ohio EPA 319 Grants Program (2005 and 2006)
- Board of Governors Candidate – American Society of Ichthyologists and Herpetologists 2005.
- Reviewer – U.S. EPA Great Lakes Basin Landscape Ecology Metric Browser (v. 1.0) - 2005.
- Reviewer – National Commission on Science for Sustainable Forestry Biodiversity Indicators (2002).
- Reviewer and Advisory Panel – Species Viability Evaluation and Forest Plan – Wayne National Forest, Ohio (2002-2003).
- Student Paper Judge, Annual Meeting of the American Fisheries Society, Baltimore, MD (2002).
- Instructor, Louisiana CATS Program for elementary school children, Louisiana College (2001).
- Poster Judge, Meeting of the Southwestern Association of Naturalists, Fayetteville, AR (1997).
- Editorial Board, *Natural Selection*, Oklahoma State University Department of Zoology Newsletter (1996).
- Biology Session Moderator, Meeting of the Oklahoma Academy of Sciences, Alva, OK (1995).

STUDENT ADVISING

Current Graduate Students – Ohio State Univ.

- Hector Santiago – M.S. Environment and Natural Resources. Thesis topic – Influence of different agricultural land use practices and BMPs on ecology of stream communities.
- Deborah Hersha – Ph.D. Environment and Natural Resources. Dissertation topic – Protozoans as indicators of disturbance in aquatic systems.
- Rebecca Gorney – M.S. Environment and Natural Resources. Thesis topic – Evaluating stream restoration in Mac-O-Cheek Creek, Ohio.
- Ed Moore – M.S. Environment and Natural Resources. Thesis topic – Development and evaluation of headwater biological assessment tools for Ohio streams.

Completed Graduate Students – Ohio State University

- Dawn Farver. 2004. Exploring the link between geomorphology and biological integrity of headwater streams in Ohio. Department of Food, Agricultural, and Biological Engineering (co-advised with Andy Ward). *Currently Ph.D. program University of Arkansas.*

- Sarah Beck. 2005. Influences of disturbance on macroinvertebrate drift in U.S. coastal plain streams. M.S. Natural Resources. *Currently Aquatic Ecologist for SWCA Environmental Consultants, Albuquerque, NM.*
- Marie Schrecengost. 2005. Factors influencing structure of headwater stream communities in the Cuyahoga Valley National Park, Northeast Ohio. M.S. Natural Resources. *Currently with U.S. Fish and Wildlife Service in California.*
- Elizabeth Risley. 2006. Relationships among land use, geomorphology, local habitat, and aquatic macroinvertebrate assemblages in an agricultural headwater stream system. M.S. Environment and Natural Resources. *Currently with Ohio EPA TMDL Program.*
- Archis Grubh. 2006. Effects of anthropogenic disturbances on biota in Gulf Coastal Plain streams. Ph.D. Environment and Natural Resources. *Currently Post-doc at Texas State University.*

Graduate Committees – Ohio State University

- Katie Holmes – Ph.D. Environment and Natural Resources
- Marja Bakermans – Ph.D. Environment and Natural Resources
- Scott Hardy – Ph.D. 2007. Environment and Natural Resources
- Kyle Herrman – Ph.D. 2007. Environment and Natural Resources
- Nancy Sundell-Turner – M.S. 2006. Environment and Natural Resources
- Joshua Smith – M.S. 2006. Environmental Sciences
- Jaime Ullinger – Ph.D. Anthropology (Examination Committee)
- Jon Witter – Ph.D. 2006. Food Agricultural, and Biological Engineering
- Anand Jayakaran – Ph.D. 2006. Food Agricultural, and Biological Engineering
- Erick Powell - Ph.D. 2006. Food Agricultural, and Biological Engineering
- Arthur Morris – Ph.D. 2005. Natural Resources
- Jessica D’Ambrosio – M.S. 2003. Environmental Sciences
- Deni Porej – Ph.D. 2003. Evolution, Ecology, and Organismal Biology (Examination Committee)

Research Associates/Assistants (Ohio State Univ.)

- Justin Walters (2007-present; student)
- Belynda Smiley (2006-present – laboratory coordinator)
- Justin Williams (2006-present; student)
- Rich Ciotola (2006-2007; technician)
- Amanda (Troutman) Rapp (2006-present; student)
- Jeremy Pritt (2006-present; student)
- Krystal Seger (2006-present; student)
- Priyanka Jagdale (2006-present; student)
- Jeff Risley (2005-2006; student)
- Jayson Beugley (2005; student)
- Megan Zale (2004-2005, 2007; student)
- Kerri Seger (2005-2006; student)

- Kathleen Ludwig (2004-2005; student)
- Ryan Watson (2003-2004; student)
- Victoria Campbell-Arvai (2003-2004 – laboratory coordinator)
- Katie LaFay (2003-2005; student)
- Valerie Kessler (2002-2003; student)
- Shio Ito (2002-2004; student)
- Andrea Shyjka (2004; student)

Undergraduate Assistants (Other Institutions)

- Bridgette Blood (2001-2002, Louisiana College)
- Loren Stagg (2001-2002, Louisiana College)
- Mandy Holden (2001, Louisiana College)
- Jason Schwartz (2002, Louisiana College)
- Rick Edwards (2002, Louisiana College)
- Anna Trousdale (1998-2000, Mississippi State University)

EXTENSION AND OUTREACH ACTIVITIES

- Technical Workshop (Continuing Education) – “Understanding the Geomorphology and Ecology of Stream Systems” with Drs. Andy Ward and Edwin Herricks. 30 participants (September 7, 2006), Columbus, Ohio.
- Taught one day workshop on “319 Grant Writing” to 70 professionals in consulting, government, etc. With J. Bonnell and A. Baird, co-sponsored by ODNR and Ohio EPA (February 2006).
- Taught one day of NR 690 “Environmental Systems Science” to 10 high school teachers (July 20, 2005) with M.G. Williams
- Technical Workshop (Continuing Education) – “Geomorphology and Ecology of Stream Systems” with Drs. Andy Ward and Edwin Herricks. 49 participants (June 7-10, 2005)
- Technical Workshop (Continuing Education) – “Geomorphology and Ecology of Stream Systems” with Drs. Andy Ward and J. David Allan. 25 participants (August 16-19, 2005)
- “Stream ecology in the winter – The Olentangy River” – presented to FLOW (Friends of the Lower Olentangy Watershed), Columbus, Ohio (2/1/2005)
- “Stream fish and macroinvertebrates as environmental indicators” workshop. Get Real About Science Program, College of Food, Agricultural, and Environmental Sciences. The Ohio State University, Columbus, Ohio (11/2005, 4/2005, and 11/2004)
- Reviewed 2 Fact Sheets for OSU Extension (2004)
- Riparian corridors and stream water quality. Meeting of the Environmentally Sensitive Development Area (ESDA) External Advisory Group (EAG), Darby Creek and Hellbranch Watersheds. Columbus, Ohio (2003)
- Using fish as water quality indicators. Ohio State University Extension Workshop – 2003 Watershed Stewards Series (2003)
- Stream ecology workshop. Third Annual Student Symposium for Waterways Adventure,

- After School Discovery Program, Kent State Ashtabula, Ohio (2003)
- Streams and watersheds. Ohio State University Extension Workshop – Natural Resources Management and Wildlife Habitat Enhancement on Public Open Spaces (2002)

INVITED SEMINARS

19. Impacts of landscape scale disturbances on headwater agricultural streams. Invited Speaker, “Headwaters at the Nexus” Symposium of The American Fisheries Society Meeting, San Francisco, CA (2007)
18. Preparation for graduate school in fisheries ecology and management. Keynote Presentation—Ohio Student Chapter of the American Fisheries Society Meeting, Columbus, OH (2007)
17. The role of fish in headwater streams: local and landscape perspectives. Bowling Green State University, Bowling Green, OH (2006)
16. Evaluating the potential for a rainbow trout fishery in Apple Creek. Meeting of the Clear Creek Chapter Trout Unlimited, Wooster, OH (2005)
15. Is clearcutting beneficial for streams? Testing predictions in the Gulf Coastal Plains. Ball State University, Muncie, IN. (2004)
14. Timber harvesting and hurricanes: impacts of disturbances on streams in the southeastern U.S. College of Wooster, Wooster, OH (2004)
13. Stream biota and the management of riparian zones. The STREAMS Channel Protection and Restoration Conference, Columbus, OH. (2003)
12. Community ecology: understanding impacts of disturbances in small streams. University of South Carolina, Spartanburg, SC. (2003)
11. Impacts of disturbance on headwater streams in the southern U.S. Ohio Environmental Protection Agency, Columbus, OH (2003)
10. Use of genetic information to manage stream fishes. Meeting of the Smallmouth Bass Alliance, Columbus, OH (2003)
9. Impacts of disturbance on small stream systems in the southeastern U.S. The Ohio State University, Columbus, OH. (2002)
8. Impacts of disturbance on small stream systems in the southeastern U.S. Paul Smiths College, Paul Smiths, NY. (2002)
7. Community dynamics in Ouachita Mountain stream systems: a multi-scale approach. Louisiana Tech University, Ruston, LA. (2002)
6. Community dynamics in Ouachita Mountain stream systems: a multi-scale approach. New Mexico State University, Las Cruces, NM. (2001)
5. Community dynamics in Ouachita Mountain stream systems: a multi-scale approach. Fort Polk, LA. (2001)
4. The role of regional and local factors in structuring Ouachita Mountain stream assemblages. California State University Chico, Chico, CA. (2000)
3. Community structure and the effects of sampling scale. Maryville College, Maryville, TN. (2000)
2. The role of regional and local factors in structuring Ouachita Mountain stream

- assemblages. Northwestern State University, Natchitoches, LA. (1999)
1. Factors influencing variability in fish assemblages. Lambuth University, Jackson, TN. (1998)

OTHER PRESENTATIONS (*STUDENT PRESENTATION IN ITALICS*)

58. *Evaluation of restoration potential of a coldwater stream ecosystem. Ecological Society of America Annual Conference, San Jose, California (2007) – R. Gorney*
57. Impacts of landscape scale disturbances on headwater agricultural streams. Symposium: Headwaters at the Nexus, American Fisheries Society Annual Conference, San Francisco, California (2007)
56. Effects of geomorphology and local habitat on fish assemblages in the Wayne National Forest. Ecological Society of America Annual Conference, San Jose, California (2007)
55. *The development, function, and benefits of fluvial benches in agricultural drainage ditches in Ohio. EWRI (ASCE) 2007 World Environmental and Water Resources Congress, Tampa, Florida (2007) – J. D'Ambrosio*
54. *Riparian forest, aquatic habitat, and vertebrate influences on macroinvertebrate assemblages in headwater streams of Northeast Ohio. 7th North American Forest Ecology Workshop, Vancouver, B.C. (2007) – K. Holmes*
53. *Riparian forest, aquatic habitat, and vertebrate influences on macroinvertebrate assemblages in headwater streams of Northeast Ohio. Ohio Agricultural Research and Development Center Annual Conference (2007) – K. Holmes*
52. *An assessment of the fishes, macroinvertebrates, habitat, and geomorphic condition of an Ohio coldwater stream ecosystem. Ohio Student Chapter of the American Fisheries Society Meeting, Columbus, Ohio (2007) – R. Gorney*
51. *Current wildlife utilization and habitat development alternatives for restoring a coal slurry impoundment and refuse pile in Meigs county, Ohio. Ohio Student Chapter of the American Fisheries Society Meeting, Columbus, Ohio (2007) – J. Williams*
50. Ecology and management of agricultural drainage ditches: a literature review. Water Management of Association of Ohio Conference, Columbus, Ohio (2006)
49. The role of fish in headwater stream quality monitoring programs: local and landscape perspectives. Water Management Association of Ohio Conference, Columbus, Ohio (2006)
48. *Protozoan bioassessment tool in headwater streams: an examination of collecting methods. Water Management Association of Ohio Conference, Columbus, Ohio. WINNER OF STUDENT POSTER COMPETITION (2006) - D. Hersha*
47. *Understanding habitat and predator influences on benthic macroinvertebrate assemblages along second-growth forested headwater streams of northeast Ohio. Ecological Society of America Annual Conference, Memphis, Tennessee (2006) – K. Holmes*
46. Stream biota and the management of riparian zones. Ohio Soil and Water Conference, Columbus, Ohio (2006)
45. Landscape perspectives on biological monitoring in headwater streams. Annual Meeting

- of the American Fisheries Society, Lake Placid, New York (2006)
44. Disturbances, extreme events, and the structure of stream communities. Water Management Association of Ohio Conference, Columbus, Ohio (2005)
 43. *Stream macroinvertebrate response to the absence of fish predators: an experimental study using enclosures. Midwest Fish and Wildlife Conference, Grand Rapids, Michigan (2005) – A. Grubh*
 42. Biological monitoring of headwater streams: lessons from Ohio and future directions. Midwest Fish and Wildlife Conference, Grand Rapids, Michigan (2005)
 41. Freshwater macroinvertebrate research in western Louisiana: limitations of our knowledge base. Annual Meeting of the North American Benthological Society, New Orleans, Louisiana (2005)
 40. *Association of brook trout (Salvelinus fontinalis) with large wood jams in pools of a river in northern hardwood-conifer old-growth forest. USDA-CSREES National Water Quality Conference, San Diego, California (2005) – A. Morris*
 39. Assessing the efficacy of EPA rapid bioassessment protocols (RBP) for macroinvertebrates in coastal plains streams. Midwest Fish and Wildlife Conference, Indianapolis, Indiana (2004)
 38. *A comparison of the macroinvertebrate assemblages in first and second order streams in the Cuyahoga Valley National Park. Midwest Fish and Wildlife Conference, Indianapolis, Indiana (2004) – M. Schrecengost*
 37. *Impacts of timber harvesting on macroinvertebrate drift in headwater streams in the southeastern U.S. Midwest Fish and Wildlife Conference, Indianapolis, Indiana (2004) – S. Beck*
 36. *An investigation of strategies to predict flood-peak discharges on variously-sized watersheds in Ohio. American Society of Agricultural Engineers (ASAE) Annual Conference, St. Paul, Minnesota. (Abstract published in “Self-Sustaining Solutions for Streams, Wetlands, and Watersheds” – ASAE Publisher, St. Joseph, Michigan. Edited by J.L. D’Ambrosio. Pp. 383.) (2004) – J. D’Ambrosio*
 35. *Watershed planning, TMDL development, and research in the Olentangy watershed. American Society of Agricultural Engineers (ASAE) Annual Conference, St. Paul, Minnesota. (Abstract published in “Self-Sustaining Solutions for Streams, Wetlands, and Watersheds” – ASAE Publisher, St. Joseph, Michigan. Edited by J.L. D’Ambrosio. Pp. 401.) (2004) – J. Witter*
 34. *Large-scale geomorphic regulation of large wood jams and associated fish communities in a northern hardwood-conifer old-growth ecosystem. International Conference on Ecological Restoration, Victoria British Columbia (2004) – A. Morris*
 33. *Geomorphologically mediated associations between salmonids and large wood jams in a river of an old-growth northern hardwood-conifer watershed. Ohio Agricultural Research and Development Center (OARDC) Annual Conference (2004) – A. Morris*
 32. Are road crossings barriers to fish dispersal? Revisiting the question for lowland streams on Ft. Polk, Louisiana. Meeting of the American Fisheries Society, Louisiana Chapter, Baton Rouge (2004)
 31. Impacts of sedimentation on fishes and macroinvertebrates in a Coastal Plains stream system. Annual Meeting of the American Society of Ichthyologists and Herpetologists,

- Norman, Oklahoma (2004)
30. Impacts of sedimentation on lotic communities in a Western Louisiana stream system. Annual Meeting of the American Fisheries Society, Madison, Wisconsin (2004)
 29. Interactive effects of environmental variability and military training on stream biota of three headwater drainages in Western Louisiana. Annual Meeting of the American Fisheries Society, Madison, Wisconsin (2004)
 28. *Landscape-mediated associations between salmonids and large wood jams in a river of an old growth northern hardwood-conifer watershed. 3rd Annual Western Great Lakes Research Conference, Minneapolis, MN (2004) – A. Morris*
 27. *Evaluating the link between biology and geomorphology in forested headwater streams in Ohio. ASAE International Meeting, Las Vegas, Nevada (Paper 032345) (2003) – D. Farver*
 26. *Evaluating the link between biology and geomorphology in forested headwater streams in Ohio. The STREAMS Channel Protection and Restoration Conference, Columbus, Ohio (2003) – D. Farver*
 25. Abiotic factors and small-stream fish movement in the southeastern United States. Fifth Bennett Symposium – Headwaters to the Sea: Evolution and conservation of fish assemblages in large rivers. University of Southern Mississippi, Hattiesburg (2003)
 24. Impacts of sedimentation on lotic communities at Fort Polk, Louisiana. Symposium “Fisheries and Aquatic Management on Department of Defense Lands: The ‘Unknown’ Federal Player,” Annual Meeting of the American Fisheries Society, Baltimore, Maryland (2002)
 23. Are road crossings barriers to fish dispersal? Revisiting the question for lowland streams, Fort Polk, Louisiana. Symposium “Fisheries and Aquatic Management on Department of Defense Lands: The ‘Unknown’ Federal Player,” Annual Meeting of the American Fisheries Society, Baltimore, Maryland (2002)
 22. Fish assemblage structure and stability under variable environmental conditions in the Ouachita Mountains. Annual Meeting of the American Society of Ichthyologists and Herpetologists, State College, Pennsylvania (2001)
 21. Fish assemblage structure and stability under variable environmental conditions in the Ouachita Mountains. Annual Meeting of the Southwestern Association of Naturalists, Hays, Kansas (2001)
 20. The influence of stream fishes on assemblage dynamics of macroinvertebrates in an intermittent stream system. Annual Meeting of the Southwestern Association of Naturalists, Denton, Texas (2000)
 19. Environmental variability, historical contingency, and the structure of regional fish and macroinvertebrate assemblages in Ouachita Mountain stream systems. Ecosystem Management Research Symposium, Southern Research Station, USDA Forest Service, Hot Springs, Arkansas (1999)
 18. Environmental variability, historical contingency, and the structure of regional fish and macroinvertebrate assemblages in Ouachita Mountain stream systems. Annual Meeting of the American Society of Ichthyologists and Herpetologists, State College, Pennsylvania (1999)
 17. Environmental variability, historical contingency, and the structure of regional fish and

- macroinvertebrate assemblages in Ouachita Mountain stream systems. Annual Meeting of the Southwestern Association of Naturalists, Monterrey, Mexico (1999)
16. Environmental variability, historical contingency, and the structure of regional fish and macroinvertebrate assemblages in timber managed, Ouachita Mountain stream systems. Annual Meeting of the Mississippi Chapter of the American Fisheries Society, Starkville, Mississippi (1999)
 15. Conservation of the leopard darter in Oklahoma and Arkansas: a population viability analysis and genetics approach. Annual Meeting of the Mississippi and Louisiana Chapters of the American Fisheries Society, Bay St. Louis, Mississippi (1998)
 14. Partitioning the variability in streams: effects of timber management, temporal variability, and historical factors. Annual Meeting of the Southwestern Association of Naturalists, Albuquerque, New Mexico (1998)
 13. The impact of riparian disturbance on plethodontid salamanders at Horsethief Spring, LeFlore County, Oklahoma. Fourth Highlands Conference on the Biology of Plethodontid Salamanders, North Carolina (1998)
 12. An update on the effects of riparian disturbance on plethodontid salamanders at Horsethief Spring, LeFlore Co., Oklahoma. Annual Meeting of the Oklahoma Academy of Science, Talequah, Oklahoma (1998)
 11. Population viability of the threatened leopard darter. Annual Meeting of the Southwestern Association of Naturalists, Fayetteville, Arkansas (1997)
 10. Inter-annual variation in leopard darter abundances. Annual Meeting of the Southwestern Association of Naturalists, Fayetteville, Arkansas (1997)
 9. The effects of riparian disturbance on habitat suitability for plethodontid salamanders at Horsethief Spring, LeFlore Co., OK. Annual Meeting of the Oklahoma Academy of Sciences, Alva, Oklahoma (1997)
 8. The relationship between fish assemblages and environmental gradients in Lagoon Creek, Oklahoma. Dept. of Zoology Seminar, Oklahoma State University, Stillwater, OK (1996)
 7. Abundance of leopard darter (*Percina pantherina*) in Robinson Fork River: A GIS approach. Annual Meeting of American Society of Ichthyologists and Herpetologists, New Orleans, Louisiana (1996)
 6. Abundance of leopard darters in Robinson Fork River, Arkansas. Annual Meeting of the Oklahoma Academy of Sciences, Oklahoma City, Oklahoma (1996)
 5. Four streams in the Central Oklahoma/Texas Plains Ecoregion: Are they similar? Mid-year Meeting, Southern Division American Fisheries Society, Mobile, Alabama (1996)
 4. Factors affecting levels of aggression in a captive group of diana monkeys. Annual Meeting of the American Society of Primatologists/International Primatological Society, Madison, Wisconsin (1996)
 3. The effects of riparian disturbance on habitat suitability for plethodontid salamanders at Horsethief Springs, LeFlore Co., OK. Annual Meeting of the Oklahoma Academy of Sciences, Oklahoma City, Oklahoma (1996)
 2. Does ecoregion mean everything is the same? A study of four streams in the Central Oklahoma/Texas Plains Ecoregion. Dept. of Zoology Seminar, Oklahoma State University, Stillwater, Oklahoma (1995)
 1. A comparison of fish and habitat in four streams of the Central Oklahoma/Texas Plains

Ecoregion. Annual Meeting of the Oklahoma Chapter American Fisheries Society,
Stillwater, Oklahoma (1995)

PROFESSIONAL SOCIETIES

Ecological Society of America
American Society of Ichthyologists and Herpetologists
American Fisheries Society
North American Benthological Society
Society for Ecological Restoration
American Association for the Advancement of Science
Ohio Academy of Science
Water Management Association of Ohio

REFERENCES

Dr. Christopher Taylor, Associate Professor, Department of Biological Sciences, Mississippi State University, P.O. Drawer GY, Mississippi State, MS 39762. Phone (662) 325-8591; Email: ctaylor@ra.msstate.edu

Dr. Virginie Bouchard, Associate Professor, School of Environment and Natural Resources, The Ohio State University, 2021 Coffey Road, Columbus, OH 43210. Phone (614) 688-0268; Email: bouchard.8@osu.edu

Dr. Tim Bonner, Assistant Professor, Department of Biology, Texas State University, 610 University Drive, San Marcos, TX 78666. Phone: (512) 245-3549; Email: tbonner@swt.edu

Dr. Melvin Warren, USDA Forest Service, Southern Research Station, 1000 Front St., Oxford, MS 38655. Phone (662) 234-2744; Email: fswarren@olemiss.edu

Dr. Jerry Bigham, Director, School of Environment and Natural Resources, The Ohio State University, 2021 Coffey Rd., Columbus, OH 43210. Phone (614) 292-2265; Email: director@snr.osu.edu