

ALAN D. CHRISTIAN
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EDUCATION

- Ph.D., 2002 Zoology, Miami University
Oxford, Ohio.
Dissertation: Spatial and temporal analysis of freshwater mussel assemblage size structure, distribution, trophic status, and nutrient recycling in low-order streams.
- MS, 1995 Biology, Arkansas State University
Jonesboro, Arkansas.
Thesis: Analysis of the commercial mussel beds in the Cache and White rivers in Arkansas.
- BS, 1992 Biology, University of Wisconsin - Oshkosh
Oshkosh, Wisconsin.

PROFESSIONAL EMPLOYMENT HISTORY

- 2008 Associate Professor of Biological Sciences, Department of Biological Sciences,
Arkansas State University- Jonesboro, Arkansas

Director, GK12 Fellowship Program, Arkansas State University- Jonesboro,
Arkansas
- 2004 - 2008 Assistant Professor of Biological Sciences, Department of Biological Sciences,
Arkansas State University - Jonesboro, Arkansas
- 2002-2004 Temporary Assistant Professor of Biological Sciences, Department of Biological
Sciences, Arkansas State University, State University, Arkansas
- 2001-2002 Visiting Research Scholar, Department of Environmental Sciences, Arkansas State
University - Jonesboro, Arkansas
- 1995-2001 Graduate Assistant, Department of Zoology, Miami University, Oxford, Ohio
- 1992-1995 Graduate Assistant, Department of Biological Sciences, Arkansas State University,
State University, Arkansas
- 1991 Internship, Wisconsin Department of Natural Resources, Division of Surface Water,
Madison, Wisconsin

CERTIFICATIONS

- 2001 Ecologist: The Ecological Society of America, Board of Professional Certification: Ecologist (January 1, 2001-December 31 2005) - Ecological Society of America. Stephen R. Carpenter, President and C. Ross Hinkle, Chair, Board of Professional Certification. 1707 H. Street, NW, Suite 400, Washington, DC 20006.
- 1999 Certified Technician: Lachat Omnion Software for FIA Auto-analyzer
- 1992 Professional Association of Dive Instructors (PADI) Open Water Diver SCUBA Certification (Student No. 9204058071)

CONTINUING EDUCATION

- 2006 Hellbender Population and Habitat Viability Analysis Workshop. Saint Louis Zoo. Renaissance Grand Hotel. 6 – 10 August, 2006
- 2006 Workshop of the Freshwater Mollusk Conservation Society. Propagation and Captive Care of Freshwater Molluscs. 5 – 7 March 2006. Columbus Zoo and Aquarium, Powell, Ohio
- 2005 Advanced GIS Conservation and Wildlife Management: Landcover change and Endangered Species – Smithsonian Conservation and Research Center, Front Royal, VA. 24 - 29 April 2005
- 2005 An Introduction to the Use of GIS in Conservation and Wildlife Management: ArcGIS and Remote Sensing for Wildlife Managers – Smithsonian Conservation and Research Center, Front Royal, VA. 17 - 22 April 2005
- 2005 Implementing Assessment: Course 1 – Assessment Services, Arkansas State University. 26 January and 2 and 9 February 2005
- 2004 Grant Proposal Workshop – College of Sciences and Mathematics, Arkansas State University. 23 October 2004
- 2004 Academic Advising Workshop – Advisement Services, Jill Simons, Arkansas State University. 20 October 2004
- 2004 Microsoft Access 2000: Intro, intermediate, and Advanced Workshop – Information and Technology Services – Nikki Nottingham, Arkansas State University. Spring 2004

PROFESSIONAL HONORS AND AWARDS

- 2008 College of Sciences and Mathematics Deans Distinguished Faculty Achievement Award for Teaching. April 11 2008.
- 2007 Environmental Sciences Program Faculty Doctoral Research Award. April 13 2007.

GRANTS FUNDED

- 2008 National Science Foundation. NSF 07-42371 DGE – Graduate Teaching Fellows in GK12. (\$2,242,565), GK12: Environmental Sciences and Molecular Biosciences in the Natural State PI: Alan D. Christian, with Robyn Hannigan, Anne Grippo, Tillman Kennon, Cynthia Miller, and J. Michael Hall.
- 2007 National Science Foundation. NSF 07-22701 DBI – Major Research Instrumentation. (\$190,835) MRI: Acquisition of biogeochemical analytical instrumentation for enhanced interdisciplinary research and training at Arkansas State University. PI: Steve Green, with Alan Christian, Jennifer Bouldin and Robyn Hannigan.
- 2007 Arkansas Game Fish Commission. 2007. State Wildlife Grants (\$28,060). Life history research on the special concern Southern Hickorynut, *Obovaria jacksoniana* (Frierson, 1912). PIs: A.D. Christian with J.L. Harris, J.L. Farris and W.R. Posey.
- 2007 Arkansas Game Fish Commission. 2007. Section 6 Funding (\$25,7952). Phylogenetic analysis on the special concern Southern Hickorynut, *Obovaria jacksoniana* (Frierson, 1912), its closes congeners, and *Villosa arkansasensis*. PIs: Alan D. Christian with John L. Harris
- 2006 ASU Scholarly Activity Initiative Proposal. 2006. Who’s your daddy II? Paternity in freshwater mussels, the field experiment. (\$10,000 requested; \$2500.00 received) PI: Alan D. Christian and J. Loutsch.
- 2005 ASU Scholarly Activity Initiative Proposal. 2005. Who’s your daddy?: Paternity in freshwater mussels. (10,000 requested; 2,500.00 received): PI: Alan D Christian and J.M. Loutsch.
- 2005 Arkansas Game Fish Commission. 6 September 2005. State Wildlife Grants (\$9782.37). Diversity and Distribution of Freshwater Gastropods from the Ozark Region of Arkansas. PIs: David M. Hayes and Alan D. Christian
- 2005 Arkansas Game Fish Commission. 6 September 2005. State Wildlife Grants (\$60,055.00). Resolution of Arkansas Species and Distributions of Freshwater Mussel Genus *Lampsilis* (Bivalvia: Unionoida) . PI: Alan D. Christian, J.L. Harris, and W. R. Hoeh
- 2005 U.S. Fish and Wildlife Service Flex Program - Delta Office Annual Flex Fund. 20 October 2005. (\$33, 686.50) A Case Study of Conservation Banking and *Potamilus capax* (Green 1832) in the St. Francis River Basin of Northeastern Arkansas. .PI’s: Andrew J. Peck and A.D. Christian.
- 2005 Arkansas Game and Fish Commission (\$22,714.05) Preliminary Analysis for Identification, Distribution, and Conservation Status of Species of *Pleurobema* and *Fusconaia* in Arkansas PI: Alan D. Christian with Jeanne Serb, and John L. Harris
- 2005 Arkansas Game and Fish Commission (\$85,000). Current Distribution and Relative Abundance of the Mussels, Crayfish, and Aquatic Salamanders of the Spring River,

- Arkansas PI: Stanley E. Trauth with Benjamin A. Wheeler, Waylon R. Hiler, and Alan D. Christian
- 2004 Scholars Undergraduate Research Fellowship Round 12 (\$3,900). Who's your daddy? Paternity determination in the Ouachita Creekshell mussel (*Mollusca: Villosa arkansasensis* (Lea 1862)). Alan D. Christian and M. Jason Gambill.
- 2004 U.S. Fish and Wildlife Service-Arkansas Field Office Annual Flex Fund (\$5,000). Habitat characterization and assessment of Ozark hellbender populations in the North Fork White, Spring, and Eleven Point rivers in Arkansas and Missouri. PI: Alan D. Christian with Stanley E. Trauth, and Benjamin Wheeler.
- 2004 National Parks Service. (\$78,000). Assessment and Habitat Evaluation of Native Freshwater Mussel Resources of Buffalo National River. 2004-2007. PI: A.D. Christian . Contact at Buffalo River NP is Faron. Usery (870) 741-5446 Ext 274. Waiting on cost sharing agreement.
- 2004 Memphis District US Army Corps of Engineers. (First year ~ \$30,000 w/ ~\$90,000 over following 3 years). Effects of USACE dredging on individual mussel fitness and mussel community numerical standing crop in the White River, AR. 2004-2008. PI: A.D. Christian as and addendum to 2003 USFWS Flex Fund grant. Contact at USFWS is Joe Krystofik (870) 347-1506
- 2004 Arkansas Highway and Transportation Department – Federal Highway Administration (\$170,000). Proposal for habitat restoration plan and programmatic biological assessment for *Potamilus capax* in Arkansas. PI: Alan D. Christian and Jerry L. Farris. Contact at AHTD is John L. Harris 501-569-2522.
- 2004 Arkansas Game and Fish Commission (\$50,000). A proposal for life history and population biology research on the special concern Ouachita Creekshell (*Villosa arkansasensis*). PI: Alan D. Christian and Jerry L. Farris
- 2003 Arkansas Game and Fish Commission (\$13, 398). Status Survey for the Pink Mucket (*Lampsilis abrupta* (Say, 1831)), Winged Mapleleaf (*Quadrula fragosa* (Conrad, 1835)) and Ouachita Rock Pocketbook (*Arkansia wheeleri* Ortman and Walker, 1912) in the Little Missouri River, Arkansas. P.I. Alan D. Christian and John L. Harris.
- 2003 U.S. Fish and Wildlife Service Flex Program - Delta Office Annual Flex Fund (\$78,170). Relationship of physical and geomorphological characteristics to mussel bed quality in the Whiter River, Arkansas. PI: Alan D. Christian with John L. Harris, Mike Hanley, and Steve Hasse.
- 2003 U.S. Fish and Wildlife Service Flex Program - Delta Office Annual Flex Fund (\$8,788). Correlation of changes in mussel communities to water development and land-use changes in the White River Basin, Arkansas. PI: Alan D. Christian with John L. Harris.
- 2003 Arkansas Game and Fish Commission: State Wildlife Funds/ Conservation Reassessment Act Funds (\$38,138 plus \$12,719 ASU Match). Ozark hellbender

- habitat characterization and assessment in the Eleven Point and Spring rivers in Arkansas. PI: Alan D. Christian with Stanley E. Trauth and Benjamin Wheeler.
- 2002 U.S.D.A Forest Service, Ouachita National Forest: Cost-Sharing Challenge Program (\$10,000 plus \$10,000 ASU Match). A proposal for life history and population biology research on the threatened Arkansas fatmucket (*Lampsilis powelli*) and the special concern Ouachita Creekshell (*Villosa arkansasensis*). PI: Alan D. Christian with Jerry L. Farris and John L. Harris.
- 2002 U.S. Fish and Wildlife Service (\$30,000). A proposal for life history and population biology research on the threatened Arkansas fatmucket (*Lampsilis powelli*) and the special concern Ouachita Creekshell (*Villosa arkansasensis*). PI: Jerry L. Farris with Alan D. Christian and John L. Harris.
- 2001 Arkansas Game and Fish Commission (\$58,935). Species limits and phylogeography of *Lampsilinae* (Bivalvia: Unionidae) in Arkansas with emphasis on species of *Lampsilis*. PI: Jerry L. Farris with John L. Harris, Alan D. Christian, Walter R. Hoeh, Ronald L. Johnson, and Mark Gordon.
- 2000 PTR & Associates (\$16,463). Evaluation of potential hyporheic and benthic water quality indicators for Clermont County, Ohio. PI: David E. Russell with Alan D. Christian and Sheldon I. Guttman.
- 2000 The Ouachita National Forest (\$6,000). Addendum to: The role of unionid bivalves in the upper Ouachita River. PI: Alan D. Christian with David J. Berg.
- 1999 Clermont County, OH Commissioners (\$17,000). Development of molecular techniques to identify larval chironomids. PI: David Russell with Alan D. Christian, and Sheldon I. Guttman.
- 1999 The Ouachita National Forest (\$6,000). The role of unionid bivalves in the upper Ouachita River. PI: Alan D. Christian with David J. Berg.
- 1997 Clermont County, OH Commissioners (\$7,000). The feasibility of using molecular techniques to identify larval chironomids. PI: David Russell with Alan D. Christian, and Sheldon I. Guttman.
- 1998 Hefner Zoology Museum (\$500) - The role of unionid bivalves in headwater streams. Alan D. Christian
- 1997 - 1998 The Nature Conservancy - Ohio Chapter (\$2,000). Pattern and scale detection of unionid bivalves (Unionacea) in Big and Little Darby Creeks. Part II Associated macro-invertebrates. PI: Alan D. Christian with David J. Berg.
- 1997 - 1998 The Nature Conservancy - Ohio Chapter (\$2,965). Pattern and scale detection of unionid bivalves (Unionacea) in Big and Little Darby Creeks. PI: Alan D. Christian with David J. Berg, and Thomas O. Crist.
- 1996 - 1997 Ohio Biological Survey (\$500). Investigation of headwater freshwater mussel (Unionacea) assemblages in the Little Miami River Drainage. PI: Alan D. Christian with David J. Berg.

EDITED VOLUMES

Journal of the North American Benthological Society. Special Issues Guest Associate Editor, Volume 27, Issue 2. "Directions in Freshwater Mollusk Conservation: Molecules to Ecosystems", Organized special issues content and authors and co-edited 3 of 11 papers for the June 2008 Special Issues.

PEER-REVIEWED PUBLICATIONS (Bold indicates student author)

CHRISTIAN, A. D., and J. L. HARRIS. 2008. An introduction to directions in freshwater mollusk conservation: molecules to ecosystems. *Journal of the North American Benthological Society* 27 (2): 345-348

CHRISTIAN, A. D., B. G. CRUMP, and D. J. BERG. 2008. Nutrient release and ecological stoichiometry of freshwater mussels (Mollusca:Unionidae) in 2 small, regionally distinct streams. *Journal of the North American Benthological Society* 27(2): 440-450

ELDERKIN, C. L., A. D. CHRISTIAN, J. L. METCALFE-SMITH, and D. J. BERG. 2008. Population genetics and phylogeography of freshwater mussels in North America, *Elliptio dilatata* and *Actinonaias ligamentina* (Bivalvia: Unionidae). *Molecular Ecology*. 17(9): 2149-2163

CHRISTIAN, A. D., and J. L. HARRIS. 2008. Into the black water. Pages 21-42 in J. Trauth and A. Romero, editors. *Adventures in the wild: tales from biologists of the natural state*. University of Arkansas Press, Fayetteville, Arkansas.

PECK, A. J., J. L. HARRIS, J. L. FARRIS, and A. D. CHRISTIAN. 2007. Assessment of freshwater mussel relocation as a conservation strategy. Pages 115-124 in C. L. Irwin, P. Garrett, and K. P. McDermott, editors. *Proceedings of the 2007 International Conference of Ecology and Transportation*. Center for Transportation and the Environment, North Carolina State University, Raleigh, North Carolina.

BERG, D. J., A. D. CHRISTIAN, and S. I. GUTTMAN. 2007. Population genetic structure of three freshwater mussel (Unionidae) species within a small stream system: significant variation at local spatial scales. *Freshwater Biology* 52:1427-1439.

ELDERKIN, C. L., A. D. CHRISTIAN, C. C. VAUGHN, J. L. METCALFE-SMITH, and D. J. BERG. 2007. Population genetics of the freshwater mussel, *Amblema plicata* (Say 1817) (Bivalvia : Unionidae): Evidence of high dispersal and post-glacial colonization. *Conservation Genetics* 8(2):355-372.

CHRISTIAN, A. D., E. M. MONROE, A. M. ASHER, J. M. LOUTSCH, and D. J. BERG. 2007. Methods of DNA extraction and PCR amplification for individual freshwater mussel (Bivalvia: Unionidae) glochidia, with the first report of multiple paternity in these organisms. *Molecular Ecology Notes* 2007(7):570-573.

WALKER, J. M., A. E. BOGAN, E. A. BONFIGLIO, D. C. CAMPBELL, A. D. CHRISTIAN, J. P. CUROLE, J. L. HARRIS, R. J. WOJTECKI, and W. R. HOEH. 2007. Primers for amplifying the hypervariable, male-transmitted COII-COI junction region in amblesine freshwater mussels (Bivalvia: Unionoidea: Ambleminae). *Molecular Ecology Notes* 7(3):489-491.

MCCORD, S., A. D. CHRISTIAN, AND R. S. GRIPPO. 2006. Biomass dynamics of *Tipula* (Insecta:Diptera) in forested streams of the Interior Highlands, Arkansas. *Journal of the Arkansas Academy of Science* **60**:74 - 79.

CHRISTIAN, A. D., J. L. HARRIS, W. R. POSEY, **J. F. HOCKMUTH**, and G. L. HARP. 2005. Freshwater mussel (Bivalvia : Unionidae) assemblages of the Lower Cache River, Arkansas. *Southeastern Naturalist* 4(3):487-512.

CHRISTIAN, A. D., and J. L. HARRIS. 2005. Development and assessment of a sampling design for mussel assemblages in large streams. *American Midland Naturalist* 153(2):284-292.

CHRISTIAN, A.D, **B.N. SMITH**, J. SMOOT, R.H. FINDLAY AND D.J. BERG. 2004. Trophic position and potential food sources of 2 species of unionid bivalves (Mollusca: Unionidae) in 2 small Ohio streams. *Journal of the North American Benthological Society* 23(1): 101-113

CHRISTIAN, A.D., **J. BOULDIN, N. BICKFORD, L. KANIESKI, S.B. MCCOY, A. MCBRIDE, A. SAKO**, AND J.L. FARRIS. 2003. Winter and spring water quality of the Big Creek watershed, Craighead County: nutrients, habitat, and macro-invertebrates. *Journal of the Arkansas Academy of Sciences*. 57: 27-36

PERLES, S.J., A.D. CHRISTIAN AND D.J. BERG. 2003. Vertical migration, aggregation and fecundity in captive and field populations of the freshwater mussel *Lampsilis siliquoidea*. *The Ohio Journal of Science* 103(4):73-78.

CHRISTIAN, A.D., C. DAVIDSON, W.R. POSEY, P.J. RUST, J.L. FARRIS, J.L. HARRIS, AND G.L. HARP. 2000. Growth curves of commercially valuable unionid bivalve (Bivalvia: Unionidae) in Arkansas. *Journal of the Arkansas Academy of Sciences*. 54:41-50.

DAVIS, W.R., A.D. CHRISTIAN, AND D.J. BERG. 2000. Seasonal nitrogen and phosphorus cycling by three unionid bivalves (Unionidae: Bivalvia) in headwater streams. 141-152. Tankersley, R.A. D.O. Warmolts, G.T. Watters, B.J. Armatage, P.D. Johnson and R..S. Butler (editors). 2000. *Freshwater Mollusk Symposium Proceedings*. Ohio Biological Society, Columbus, Ohio. Xxi + 274 pp.

HARRIS, J.L., P.J. RUST, A.D. CHRISTIAN, W. R. POSEY, C. DAVIDSON, AND G.L. HARP. 1997. Revised status of rare and endangered Unionacea (Mollusca: Margaritiferidae, Unionidae) in Arkansas. *Proceedings of the Arkansas Academy of Sciences* 51:66-89.

MANUSCRIPTS IN REVISION (Bold indicates student author)

MANUSCRIPTS IN REVIEW (Bold indicates student author)

Johnson, R.L., A.D. Christian, S.D. Henry, and S.W. Barkley. In Review. Distribution and ecology of black basses (*Micropterus*) in the lower Eleven Point River, Arkansas. Submitted to the *Southeastern Naturalist*. 36 pages (including 4 figures and 5 tables)

MANUSCRIPTS IN PROGRESS (Bold indicates student mentoring)

Bowling, A.M., M.J. Vanni, W.H. Renwick, M.J. Horgan, A.D. Christian. Inputs, concentrations, and burial of nutrients and sediments in three reservoirs of contrasting watershed land use. To be submitted to *Freshwater Biology*. 45 pages plus 10 Figures and 4 Tables

Peck A. J., J. L. Harris, and A. D. Christian, Relationship of physical and geomorphological characteristics to mussel bed quality in the White River Basin, Arkansas. To be submitted to the *Hydrobiologia*: 27 pages (13 Figs. & Tables).

Christian, A.D., R.H. Findlay, B. Crump, J. Porter, and D.J. Berg. Regional and temporal patterns of food resources of freshwater mussels in small streams. *Journal of the North American Benthological Society*: 27 pages (13 Figs. & Tables).

Christian, A.D., J.L. Harris, W.R. Posey, S. W. A. Chordas P. J. Rust, and G.L. Harp. Current and Historical Freshwater mussel (*Bivalvia:Unionidae*) assemblages in the lower White River, Arkansas. To be submitted to *Ecological Monographs*.

Christian, A.D., and J.L. Harris. Large scale distribution of White River Drainage freshwater mussels: patterns and hypotheses. To be submitted to *Ecological Monographs*.

Christian, A.D., T.O. Crist and D.J. Berg. Spatial and temporal patterns of freshwater mussel communities in a headwater stream system. To be submitted to *Oikos*: 29 pages (25 Figs. & Tables)

Kanieski, L., T. Abromova, B. Ashcraft, S.B. McCoy, A. McBride, L. Rosa, T. Sanders, M. Scott, J. Seagraves, B. Walker, R.L. Johnson and A.D. Christian. 2004. Spatial patterns of macroinvertebrate assemblages above and below Greer's Ferry Reservoir. To be submitted to the *Journal of the Arkansas Academy of Sciences*, April 2004. 12 pages (2 Fig. & 5 Tables)

Chordas, S.W.A., J.L. Harris, A.D. Christian, P.J. Rust, and G.L. Harp. 2003. The distribution of freshwater mussels in the Strawberry River, Arkansas. To be submitted to the *Southeastern Naturalist*. (Data analyzed; manuscript draft)

MEETING PRESENTATIONS (Bold indicates student author)

Cope, W.G., A.D. Christian and 10 other authors. 2007. Freshwater mussel ecosystem ecology: The integrated functional roles of water quality, pollution, and physical habitat in supporting adult and early life stages of freshwater mussels and their role in nutrient recycling. 5th Biennial Freshwater Mollusk Conservation Society Symposium. *Direction in Freshwater Mollusk Conservation: molecules to ecosystems*. Little Rock, Arkansas. March 11-16, 2007. Plenary Session, PE06. Abstract on Page 36.

Peck, A.J., J.L. Harris, and A.D. Christian. 2007. ECOHYDRAULICS AND FRESHWATER MUSSEL AGGREGATE LOCATIONS IN LARGE RIVER SYSTEMS: EMPIRICAL EVIDENCE OF THE REFUGIA CONCEPT AND PROMISING RESEARCH AREAS. 5th Biennial Freshwater Mollusk Conservation Society Symposium. *Direction in Freshwater Mollusk Conservation: molecules to ecosystems*. Little Rock, Arkansas. March 11-16, 2007. Workshop Presentation WS05. Abstract on Page 24.

Seagravs, S.E. J.L. Farris, J.L. Harris, and A.D. Christian. 2007. Conservation of the Ouachita Creekshell, *Villosa arkansasensis* (Lea, 1852): reproduction and host fish suitability. 5th Biennial Freshwater Mollusk Conservation Society Symposium. *Direction in Freshwater Mollusk Conservation: molecules to ecosystems*. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO07. Abstract on Page 43.

- Hayes, D.M.** and A.D. Christian. 2007. Freshwater snails of the Ozark Mountains in Arkansas. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO21. Abstract on Page 50.
- Inoue, Kentaro, J.L. Harris, and A.D. Christian.** 2007. Land use and freshwater mussel assemblage changes in the lower White River, Arkansas: 1930 to 2002. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO25. Abstract on Page 53.
- Wentz, N.J., A.J. Peck, J.L. Harris, and A.D. Christian.** 2007. Assessment of a potential *Potomilus capax* (Green, 1832) refuge: the use of biotic and habitat indices as indicators of freshwater mussel habitat in the Tyronza River, Arkansas. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO40. Abstract on Page 61.
- Baldrige, D.R., A.J. Peck, and A.D. Christian.** 2007. Freshwater mussel habitat variability and movement patterns following relocation: a case study of *Potomilus capax* (Green, 1832). 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO41. Abstract on Page 61.
- Tracy A. Bianco, A.J. Peck, J.M. Loutsch, and A.D. Christian.** 2007. The use of protein concentration as a potential indicator of freshwater mussel (Mollusca: Bivalvia) fitness. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO42. Abstract on Page 62.
- Allen, R.M., A.J. Peck, J.M. Loutsch, J.L. Farris and A.D. Christian.** 2007. The use of relative glycogen concentrations to assess fitness in freshwater mussel (Mollusca: Bivalvia). 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster Presentation, PO43. Abstract on Page 62.
- Asher, A.M. E. Monroe, J.L. Loutsch, D.J. Berg and A.D. Christian.** 2007. The use of micro-satellite analysis to determine paternity in freshwater mussels. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Platform presentation PL08, Platform Session 1B: Life History and Population Biology/Ecology. Abstract on Page 74
- Matthews, M.W. and A.D. Christian.** 2007. The role of distinctive freshwater bivalve communities and the exotic asian clam in nutrient recycling along the continuum of an Ozark river. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Platform presentation PL15, Platform Session 2A: Community Ecology. Abstract on Page 78
- Peck, A.J., J.L. Harris, J.L. Farris and A.D. Christian.** 2007. Assessment of freshwater mussel relocation as a conservation strategy 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas.

March 11-16, 2007. Platform presentation PL25, Platform Session 3A: Conservation Directions. Abstract on Page 83

Martin, H.C., J.L. Harris, and A.D. Christian. 2007. Cumulative watershed effects in the South Fork Spring River: habitat, mussels, macroinvertebrates and fish response variables. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Platform presentation PL28, Platform Session 3B: Landscape and System Ecology. Abstract on Page 85

Lawson, R.L. M.W. Matthews, F. Usery, S. Hodges, and A.D. Christian. 2007. Species and size selective predation of freshwater mussels on the Buffalo National River, Arkansas. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Platform presentation PL29, Platform Session 3B: Landscape and System Ecology. Abstract on Page 85

Lawson, R.L. M.W. Matthews, F. Usery, S. Hodges, and A.D. Christian. 2007. Species and size selective predation of freshwater mussels on the Buffalo National River, Arkansas. 5th Biennial Freshwater Mollusk Conservation Society Symposium. Direction in Freshwater Mollusk Conservation: molecules to ecosystems. Little Rock, Arkansas. March 11-16, 2007. Poster presentation P029, Platform Session 3B: Landscape and System Ecology. Abstract on Page 85

Lawson, R.L. M.W. Matthews, F.D. Usrey, S. Hodges, and A.D. Christian,. 2006. Predation on freshwater mussels: species and size selection. 91st Annual Meeting of the Ecological Society of America, Icons and Upstarts in Ecology, Memphis, Tennessee. August 6-11, 2006. Poster # 16 of Poster Session 08 – Aquatic Ecology on page 72 of the Official Meeting Program. Abstract on Interactive Index by Author CD.

Martin, H.C., J.L. Harris, and A.D. Christian,. 2006. Richness, densities, population and Community numerical standing crop, and habitat characterization of Spring River drainage freshwater mussels. 91st Annual Meeting of the Ecological Society of America, Icons and Upstarts in Ecology, Memphis, Tennessee. August 6-11, 2006. Poster # 12 of Poster Session 08 – Aquatic Ecology on page 72 of the Official Meeting Program. Abstract on Interactive Index by Author CD.

M.W. Matthews, F.D. Usrey, S. Hodges, S.E. Seagraves, and A.D. Christian. 2006. Assessment and evaluation of native freshwater mussel assemblages of the Buffalo National River, Arkansas. 91st Annual Meeting of the Ecological Society of America, Icons and Upstarts in Ecology, Memphis, Tennessee. August 6-11, 2006. Poster # 37 of Poster Session 08 – Aquatic Ecology on page 72 of the Official Meeting Program. Abstract on Interactive Index by Author CD.

Peck, A.J., J.L. Harris, A.D. Christian. 2006. Movement patterns of *Potamilus capax* and *Quadrula quadrula* following relocation. 91st Annual Meeting of the Ecological Society of America, Icons and Upstarts in Ecology, Memphis, Tennessee. August 6-11, 2006. Poster # 45 of Poster Session 08 – Aquatic Ecology on page 73 of the Official Meeting Program. Abstract on Interactive Index by Author CD.

Smith, A.M., J. Loutsch, E.M. Monroe, and A.D. Christian. 2006. Who's your daddy: the use of micro-satellite analysis to determine paternity in freshwater mussels. 91st Annual Meeting of the Ecological Society of America, Icons and Upstarts in Ecology, Memphis, Tennessee. August 6-11, 2006. Poster # 36 of Poster Session 08 – Aquatic Ecology on page 72 of the Official Meeting Program. Abstract on Interactive Index by Author CD.

- Lawson, R.L. M.W. Matthews, F.D. Usrey, S. Hodges, and A.D. Christian.** 2006. Species and size selective predation of freshwater mussels on the Buffalo National River, Arkansas. 54th Annual Meeting of the North American Benthological Society, Anchorage, Alaska. June 4-8, 2006. Abstract 45 on page 110 of Bulletin of the North American Benthological Society 23(1).
- M.W. Matthews, F.D. Usrey, S. Hodges, S.E. Seagraves, and A.D. Christian.** 2006. Assessment and evaluation of native freshwater mussel assemblages of the Buffalo National River, Arkansas. 54th Annual Meeting of the North American Benthological Society, Anchorage, Alaska. June 4-8, 2006. Abstract 46 on page 111 of Bulletin of the North American Benthological Society 23(1).
- Smith, A.M., J. Loutsch, E.M. Monroe, and A.D. Christian.** 2006. The use of micro-satellite analysis to determine paternity in freshwater mussels.. 54th Annual Meeting of the North American Benthological Society, Anchorage, Alaska. June 4-8, 2006. Abstract 48 on page 111 of Bulletin of the North American Benthological Society 23(1).
- Christian, A.D., **A.J. Peck, J.L. Harris, and J.L. Farris.** 2006. Movement patterns of freshwater mussels following relocation: a case study of **Potamilus capax** and *Quadrula quadrula* in an Arkansas drainage ditch. 54th Annual Meeting of the North American Benthological Society, Anchorage, Alaska. June 4-8, 2006. Abstract 483 on page 284 of Bulletin of the North American Benthological Society 23(1).
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Betty Crump and Alan Clingenpeel. Cumulative watershed effects in the Spring and Tyronza River Drainages, USDA Forest Service, Ouachita National Forest.

J.P. Gandhi, A.D. Christian, and J.L. Farris. Seston communities of fish hatcheries. Arkansas State University.

McDowell, W.H., J.L. Farris and A.D. Christian. Nutrient concentrations in Arkansas delta ditches. Arkansas State University.

Abanda, A.P., R. Hannigan, A.D. Christian, and J.L. Farris. Composition of clay in the Big Creek watershed, Craighead County, AR. Arkansas State University.

Berg, D.J., A.D. Christian, C.K. Meier, and C.C Vaughn. The role of dispersal in structuring aquatic insect communities. Conducting, supervising and analyzing population genetics data in Hydropsychidae caddisflies with researchers at the University of Oklahoma, Norman.

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- Christian, A. D., S. E. Trauth, and B. A. Wheeler. 2005. Ozark hellbender habitat characterization and assessment in the Eleven Point and Spring rivers in Arkansas. 25 March 2005. Final Report for the Arkansas Game and Fish Commission, Little Rock, Arkansas. 34 Pages plus 44 Figures, and 18 Tables.
- Harris, J. L., W. R. Hoeh, A. D. Christian, J. Walker, J. L. Farris, R. L. Johnson, and M. E. Gordon. 2004. Species Limits and Phylogeography of Lampsilinae (Bivalvia; Unionoida) in Arkansas with Emphasis on Species of Lampsilis. 31 March 2004 Final Report to the Arkansas Game and Fish Commission, Little Rock, Arkansas.
- Christian, A. D., J. L. Harris, M. Hanley, S. Haase, B. Humber, and A. J. Peck. 2004. Relationship of physical and geomorphological characteristics to mussel bed quality and correlation of changes in mussel communities to water development and land use changes in the White River Basin, Arkansas. 2 June 2004 Interim Report for the United States Fish and Wildlife Service, Conway, Arkansas.
- Christian, A. D., J. L. Farris, and M. Scott. 2004. A proposal for life history and population biology research on the threatened Arkansas fatmucket (*Lampsilis powellii*) and the special concern Ouachita creekshell (*Villosa arkansasensis*). 6 August 2004 Interim Report US Department of Agriculture Forest Service, Hot Springs, Arkansas.
- Christian, A. D., and J. L. Harris. 2004. Status survey for the Pink Mucket (*Lampsilis abrupta* (Say, 1831)), Winged mapleleaf (*Quadrula fragosa* (Conrad, 1835)) and Ouachita Rock Pocketbook (*Arkansia wheeleri* Ortman and Walker 1912) in the Little Missouri River. 30 September 2004 Final Report for the Arkansas Game and Fish Commission, Little Rock, Arkansas.

- Christian, A. D., J. L. Harris, M. Hanley, S. Haase, B. Humber, and A. J. Peck. 2004. Relationship of physical and geomorphological characteristics to mussel bed quality and correlation of changes in mussel communities to water development and land use changes in the White River Basin, Arkansas. 5 November 2004 Interim Report for the United States Fish and Wildlife Service, Conway, Arkansas.
- Christian, A. D., J. L. Farris, J. L. Harris, and S. E. Seagraves. 2004. A proposal for life history and population biology research on the threatened Arkansas fatmucket (*Lampsilis powellii*) and the special concern Ouachita creekshell (*Villosa arkansasensis*). 5 November 2004 Interim Report for the US Department of Agriculture Forest Service, Hot Springs, Arkansas.
- Christian, A. D., S. E. Trauth, and B. A. Wheeler. 2004. Ozark hellbender habitat characterization and assessment in the Eleven Point and Spring rivers in Arkansas. 31 December 2004 Draft Final Report for the Arkansas Game and Fish Commission, Little Rock, Arkansas.
- Christian, A. D. 2004. Final Report: Invertebrate Community Index Assessment of selected tributaries of the East Fork Little Miami River, Clermont Co., Ohio sampling, 2003. Final report submitted to Legacy Environmental Consulting. 55 pages (35 tables & 7 figures).
- Christian, A. D. 2003. Final Report: Invertebrate Community Index Assessment of selected tributaries of the East Fork Little Miami River, Clermont Co., Ohio sampling, 2002. Final report submitted to Legacy Environmental Consulting. 53 pages (24 table + 11 Figures)
- Christian, A. D. and S. I. Guttman. 2002. Final Report: Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont Co., Ohio summer sampling, 2001. Final report submitted to Clermont County, Ohio Commission.
- Christian, A.D. and D.J. Berg. 2002. Spatial and temporal analysis of food resource composition and ecosystem processing of unionid bivalves in 2 regionally distinct low-order streams. Final report submitted to U.S.D.A. Forest Service, Ouachita National Forest, Caddo Ranger District, Glenwood AR.
- Christian, A.D., D.J. Berg, and T.O. Crist. 2002. Spatial and temporal patterns of unionid bivalve assemblages of the Big Darby Creek system. Final report submitted to The Ohio Chapter of The Nature Conservancy. Dublin, OH.
- Christian, A. D. and S. I. Guttman. 2001. Final Report: Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont Co., Ohio summer sampling, 2000. Final report submitted to Clermont County, Ohio Commission.
- Christian, A. D. and S. I. Guttman. 2000. Final Report: Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont Co., Ohio summer sampling, 1999. Final report submitted to Clermont County, Ohio Commission.
- Harris, J.L. and A.D. Christian. 2000. Final Report: current status of the freshwater mussel fauna of the White River, AR between river miles 10.0 and 255. Final report submitted to the U.S. Army Corps of Engineers, Memphis, TN.
- Berg, D.J., A.D. Christian, J.L. Metcalfe-Smith, W.R. Hoeh and S.I. Guttman. 2000. Evaluation of genetic similarities among populations of bivalve mollusks. Final report submitted to the Ohio Biological Survey.

Russell, D.E., A.D. Christian and S.I. Guttman. 1999. Final Report: The feasibility of using molecular techniques to identify larval chironomids. Final report submitted to Clermont County, OH Commission.

Christian, A. D. and S. I. Guttman. 1999. Final Report: Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont Co., Ohio summer sampling, 1998. Final report submitted to Clermont County, Ohio Commission.

Christian, A. D. and J. T. Oris. 1998. Final Report: Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont Co., Ohio summer sampling, 1997. Final report submitted to Clermont County, Ohio Commission.

Christian, A. D. and J. T. Oris. 1998. Preliminary qualitative invertebrate community assessment: East Fork Little Miami River, Clermont County, Ohio, summer sampling, 1997. Preliminary report submitted to Clermont County, Ohio Commission.

PRESENTATIONS - LEARNED FORUM

- 2007 Invited Speaker – Truman State University Department of Biological Sciences, The role and relative contribution of freshwater mussels in nutrient recycling. 21 October 2007. Host: Jonathon Gering
- 2007 Invited Speaker – International Conference on Ecology and Transportation. Saint Charles Nature Center. Life history and reproductive biology of freshwater mussels and Cooperative Mussel Conservation in Arkansas. May 2007. Host: Mitch Wine
- 2007 Invited Speaker – University of Louisiana - Monroe Department of Biological Sciences, The role and relative contribution of freshwater mussels in nutrient recycling. 16 February 2007. Host: Russell Minton
- 2006 Invited Speaker – University of Memphis: Department of Biological Sciences, Freshwater mussels: role in nutrient recycling in small streams. 23 February. Host: Jack Grubaugh
- 2004 Job Interview – Arkansas State University: Department of Biological Sciences, Small stream and freshwater mussel ecology: mussel distribution, trophic position, and ecosystem function. 25 February. Host: Richard Grippo
- 2003 Job Interview – University of Illinois at Springfield: Department of Environmental Sciences Small stream and freshwater mussel ecology: mussel distribution, trophic position, and ecosystem function. March. Host:
- 2001 Invited Speaker – Valparaiso University: Biology Colloquium, North America: epicenter of freshwater mussel species diversity. Host: Laurie Ebberhardt

NON-PEER REVIEWED ARTICLES

Romero, A. and A.D. Christian. Mussels have plenty to say about state of environment. *The Sun*, 23 September 2005, p. A-.

Romero, A. and A.D. Christian. ASU faculty using clickers. *The Sun*, 1 October 2006, p.

Romero, A. and A.D. Christian. Worlds smallest fish discovered. *The Sun*, 16 April 2006, p. A8

Christian, A.D. Pointsett Lake fishing derby gives experience to children, *The Sun*, 13 May 2007,

LECTURE AND DISCUSSION TEACHING EXPERIENCE

- 2008 Associate Professor, Department of Biological Sciences, Arkansas State University. Aquatic Biology, Biology of Animals, Ichthyology, and Limnology
- 2004-2008 Assistant Professor, Department of Biological Sciences, Arkansas State University. Aquatic Biology, Biology of Animals, Ichthyology, and Limnology
- 2002-2004 Temporary Assistant Professor, Department of Biological Sciences, Arkansas State University. 2002 – present: Aquatic Biology, Aquatic Entomology, Biology of Animals, Biological Science, Freshwater Mussel Identification, Ichthyology, and Limnology
- 2002 Instructor of Stream Ecology, Department of Environmental Sciences, Arkansas State University: Spring 2002. Seminar and research laboratory.
- 1998 Graduate Instructor of Environmental Biology, Department of Zoology, Miami University: Lecture and discussion.

LABORATORY TEACHING EXPERIENCE

- 1997 - 1998 Graduate Assistant - Department of Zoology, Miami University. Laboratory Instructor: General Biology.
- 1994 – 1995 Graduate Teaching Assistant – Department of Biological Sciences, Arkansas State University Laboratory Instructor. General Biology, Zoology, and Human Anatomy and Physiology I & II.

GUEST LECTURE TEACHING EXPERIENCE

- 2002 Guest Lecturer – Department of Biological Sciences, Arkansas State University. Ecology: Biogeochemical cycles. Professor: Jerry L. Farris
- 2001 Guest Lecturer - Department of Biological Sciences, Arkansas State University. Limnology: nutrient cycling. Instructor: Ms. Rebecca Maul
- 2001 Guest Lecturer - Department of Biological Sciences, Arkansas State University. Limnology: food webs. Instructor: Ms. Rebecca Maul

- 2000 Guest Lecturer – Department of Zoology, Miami University, Hamilton Campus. General Ecology: Population dynamics. Professor: David J. Berg
- 2000 Guest Lecturer – Department of Zoology, Miami University. Environmental Biology. Instructor: Mr. David E. Russell
- 2000 Guest Lecturer – Department of Zoology, Miami University. Environmental Biology. Instructor: Mr. Jon Gering
- 1997 Guest Lecturer – Department of Zoology, Miami University, Hamilton Campus. General Zoology: Biology of the Cell. Instructor: Mr. John Dobyns

COURSE AND PROGRAM DEVELOPMENT

- 2004 Geographic Information Systems: Developed natural resources based exercise to train graduate student to create maps, analyze data, and construct models
- 2004 Biology of Animals Laboratory: Added pre and post assessments, personal response systems and online review to assess content and learning of 1st year undergraduates.
- 2006 Population and Community Ecology and Food Webs and Ecosystem Ecology. Developed a new intradisciplinary graduate level course. Incorporation of collaborative learning environments, team teaching, and mathematical and statistical analysis
- 2007 Environmental Sciences Core I: The Sciences , Environmental Sciences Core II: Environmental Law, Policy, History, and Economic and Environmental Sciences Core III: Environmental Problem Solving. Committee member responsible for developing a transformative interdisciplinary EVS Graduate Program Core Curriculum.
- 2007 Environmental Sciences Core I: The Sciences. Coordinator of the team taught transformative and integrative graduate level course in Geology, Chemistry, Geography, Ecology, and Global Climate Change. Incorporated pre and post assessments and used team teaching and collaborative learning to build interdisciplinary collaboration

UNDERGRADUATE MENTORING EXPERIENCE

- 2007 – present Leigh French – Assessment of fish before and after highway construction
- 2007 Mollie Broadway – Freshwater mussel fitness
- 2007 – present John “Dusty” Rains – Physico-chemico characteristics of hatchery ponds
- 2006 – present Cortney Roach – Genetic diversity of freshwater mussel host fish
- 2006- present David Baldrige – Sediment preference and movement in freshwater mussels
- 2006 – 2007 Kentaro Inoue – Spatial distribution of freshwater mussels
- 2006 – present Tracy Bianco – Use of protein concentrations as an indicator of fitness in mussels
- 2005-2006 Holly Martin – freshwater mussel ecology
- 2005- 2006 Allison Smith – investigation of paternity in freshwater mussels
- 2004 - 2005 M. Jason Gambill – investigation of paternity in freshwater mussels
- 2003- present Raven Lawson – investigation predation on freshwater mussels

2003- present	Grace Miller – investigation of organic versus inorganic bedload
2003- present	Waylon Edwards – use of freshwater invertebrates in biomonitoring
2003- present	Ryan Allen – use of freshwater invertebrates in biomonitoring
2002	Tiffany N. Sanders – Molecular systematics of Arkansas <i>Lampsilinae</i> mussels
1998 – 2001	Sara Irie – Nutrient limitation in streams and nutrient recycling of freshwater mussels.
1999 – 2000	Timothy J. Kirkpatrick – Genetic variation of freshwater mussels using RFLPs.
1998 – 2000	W. Ian Towler – Molecular identification of <i>Stenonema</i> spp. mayflies using RFLPs.
1998 – 1999	William R. Davis – Nutrient recycling of freshwater mussels.
1997 – 1999	Brittany N. Smith – Trophic status of freshwater mussels.
1997 – 1999	Andrew M. Schumacker – Genetic variation of freshwater mussels using RFLPs.
1996 – 1997	Stephanie J. Perles – Behavior and fecundity of freshwater mussels.

GRADUATE STUDENT COMMITTEES

2008	Jeremy Williams, ASU EVS Doctoral Advisor
2008	Wilbert Long, ASU EVS Doctoral Advisor
2007	Nicole Henderson, ASU EVS Doctoral Co-Advisor
2007	Eric Freeberg, ASU EVS Doctoral Committee
2007	Jacob Sawyer, ASU DBS MS Committee
2007	Ryan Allen, ASU DBS MS Co-Advisor
2007	Kentaro Inoue, ASU EVS MS Advisor
2007	Allison Asher, ASU EVS MS Advisor
2007	Jamie Conrad, ASU EVS MS Committee
2006	Holly C. Martin, ASU EVS MS Advisor
2006	Mellissa Milligan, ASU EVS MS Advisor
2006	Nathan Wentz, ASU DBS MS Advisor
2005	David E. Hayes, ASU EVS Doctoral Advisor
2005	Andrew J. Peck: ASU EVS Doctoral Advisor
2005	Mickey W. Matthews, ASU DBS MS Advisor
2005	Elizabeth Medlin: ASU, EVS MS Committee
2005	Rex Medlin: ASU, DBS MS Committee
2004	Heidi McIntyre: ASU, EVS MS Co-advisor
2004	Sara Seagraves: ASU, DBS MA Advisor
2004	Waylon Hiler: ASU, DBS MS Committee
2004	Michael Weston: ASU, DBS MS Committee
2004	Benjamin Wheeler: ASU, EVS Doctoral Committee
2004	Andrew J. Peck: ASU, DBS MS Advisor
2004	Tatiana Abramova: ASU, DBS MS Exam Final
2003	Samuel McCord: ASU, Doctoral Committee
2003	Mary Scott: ASU, DBS MS Thesis and Exam Committee
2003	Josh Seagraves: ASU, DBS MS. Exam and Thesis Committee
2003	Ashley McBride: ASU, DBS MS Exam Committee
2003	Tiffany Sanders: ASU, DBS MS Thesis Committee
2002 – 2003	Lyn Kanieski; ASU, DBS MS Exam Committee

TEACHING TOOLS

Lectures	Powerpoint, overheads, group work, guest lecturers
Online	Blackboard: quizzes, one-minute surveys, supplemental materials, links, grades, electronic taxonomy presentations, etc.

PROFESSIONAL MEMBERSHIPS

American Society of Limnology and Oceanography
Ecological Society of America
Freshwater Mollusk Conservation Society
North American Benthological Society
American Fisheries Society

SERVICE – PEER REVIEWER

National Science Foundation: DBI-MRI and CREST-HBCU RISE
American Society of Limnology and Oceanography (ASLO)
Environmental Biology of Fishes
Journal of the North American Benthological Society (JNABS)
Southwestern Association of Naturalist (SWAN)
Journal of the Arkansas Academy of Sciences (JAAS)

SERVICE – UNIVERSITY AND SOCIETY COMMITTEES

- 2005 – present Assessment Committee, Department of Biological Sciences, Arkansas State University.
- 2005 – present Honors College Committee, Department of Environmental Sciences, Arkansas State University
- 2005 – present Environmental Sciences Program Committee, Department of Environmental Sciences, Arkansas State University
- 2005 – present Graduate Student Selection Committee. Department of Biological Sciences, Arkansas State University.
- 2005 - present Ecotoxicology Research Facility Use Committee. Department of Biological Sciences, Arkansas State University.
- 2004 – present Biological Sciences Seminar Series – Chair – Department of Biological Sciences, Arkansas State University.
- 2002-present Arkansas State University Chapter of The Wildlife Society – Faculty Member
- 2000 – 2001 Zoology Faculty Search Committee - Graduate Student Representative – Department of Zoology, Miami University, Hamilton Campus. Committee Chair: Ann Rypstra.
- 1999 - 2000 Hefner Zoology Museum Lecture Committee - Graduate Student Representative. Department of Zoology, Miami University. Committee Chair: William McGrew
- 1998-present National Commercial Shell-fishing Committee - Freshwater Mollusk Conservation Society
- 1997-1998 Curriculum Committee - Graduate Student Representative. Department of Zoology, Miami University. Committee Chair: Thomas Wissing.

1996-1997 Faculty Meeting Representative - Graduate Student Representative. Department of Zoology, Miami University. Department Chair: Douglas Taylor

1995-1996 Graduate Student Association - Graduate Student Representative - Department of Zoology. Miami University.

SERVICE – EDUCATION AND OUTREACH

2007 Overall Judge – 2007 Northeast Arkansas Science Fair. Director: Dr. J Kennon, ASU Department of Chemistry and Physics.

2006 Overall Judge – 2006 Northeast Arkansas Science Fair. Director: Dr. J Kennon, ASU Department of Chemistry and Physics.

2005 Overall Judge – 2005 Northeast Arkansas Science Fair. Director: Dr. M. Huss, ASU Department of Biological Sciences.

2004 Comprehensive Wildlife Conservation Strategy for State Wildlife Grant Plan – Arkansas Game and Fish Commission, U.S. Fish and Wildlife Service and Arkansas Field office of The Nature Conservancy– Volunteer / Expert consultant. 30 September and 2 November 2004.

2004 Fish Field Trip Leader – Arkansas State University Student Chapter – The Wildlife Society. 2004 Southwestern Conclave Competition at Arkansas State University. 18 – 20 March 2004

2004 Water Quality Competition Coordinator – Arkansas State University Student Chapter – The Wildlife Society. 2004 Southwestern Conclave Competition at Arkansas State University. 18 – 20 March 2004.

2004 Overall Judge – 2004 Northeast Arkansas Science Fair. 5 March 2004. Director: Dr. M. Huss, ASU Department of Biological Sciences.

2003 Zoology Judge – 2003 Northeast Arkansas Science Fair. March 2003. Director: Dr. M. Huss, ASU Department of Biological Sciences.

2002 Coordinator – Seminar Series, Department of Environmental Sciences, Arkansas State University. Director: Jerry L. Farris.

2002 Invited Speaker – Spring River Sportsman’s Club, North America: epicenter of freshwater mussel species diversity. Host: Bob Thompson, 3 Apopka Trace, Cherokee Village, AR 72529. Phone: (870)-257-4151

2003 Invited Speaker - Oxford Audubon Society, North America: epicenter of freshwater mussel species diversity. Hosts: Jon Gering and Sean Walker

1998 Mentor - Cincinnati Math and Science Program. Student Jovan Moore

1998 Invited Speaker - Clermont County, Environmental Division. Public education seminar on aquatic bio-monitoring. Host: Paul Braasch

- 1997 - 2001 Volunteer - Hefner Zoology Museum, Department of Zoology, Miami University. Freshwater mussel taxonomy and curation.
- 1997 Mentor - Cincinnati Math and Science Program. Student: Kesha Thompson
- 1994 Invited Speaker - DeWitt, AR Rotary Club. Seminar on freshwater mussels in the White River, AR.
- 1993 Founder and Inaugural President of Ecologically Conscientious Human Organization (ECHO) - Environmental Club. Arkansas State University.
- 1990 Volunteer - Special Olympics, Winter Games. Scorekeeper. Oshkosh, Wisconsin

SERVICE – NATIONAL AND INTERNATIONAL

- 2007 - 2008 Associate Editor, Journal of the North American Benthological Society. Special Issue Guest Associate Editor for “Directions in Freshwater Mollusk Conservation: Molecules to Ecosystems”, Organized special issues content and authors and co-edited 3 of 11 papers for the June 2008 Special Issues.
- 2005 - 2007 Chair, 2007 Symposium and Workshop of the Freshwater Mollusk Conservation Society, Little Rock, Arkansas, 11 – 15 March 2007. 271 registered attendees; 10 workshop, 9 plenary, 80 platform, and 51 poster presentations.

CONSULTING EXPERIENCE

- 2006 Consultant. EA Engineering. Taxonomist for freshwater mussel surveys in the Ohio River. Contact: Cristi Bishop, Scientist, EA Engineering, Science, and Technology, 410-771-4950 (x 5457)
- 2005 – 2006 Consultant. Carter and Burgess. Survey of endangered and non endangered freshwater mussels along the highway 18 corridor between Lake City and Dell, Arkansas. Contact: David Penn, P.E. Project Manager, Carter and Burgess, Inc, 501-223-0515
- 2005 – present Consultant. Osceola Drainage District. Survey for the Fat Pocketbook in drainage district waterbodies. Contact: Ed Albritton, Executive Secretary, Sub-district No. 1 Drainage District No. 8. 870-563-6518
- 2003-2007 Consultant. Mark Twain National Forest, Macroinvertebrate Identification. Contact: Angelina Trombley, Wildlife Biologist, USDA Forest Service, 573-996-2153
- 2001 Consultant- Arkansas Highway and Transportation Department. Relocation of endangered and non-endangered freshwater mussels at a new bridge crossing for AHTD. Job Number 110288, Federal Aid Project Number BRN 0019(26), St. Francis River Str. & Apprs. (Hwy. 64 Cross County). Contact person: John L. Harris.

- 2000 - present Consultant – Clermont County, Ohio Board of Commissioners. Field Investigator, Taxonomist, and Statistical Analyst. The influence of land-use on the terrestrial and aquatic communities. Subcontractor: David E. Russell.
- 1999 Consultant – U.S. Army Corps of Engineers. Field and Statistical Analyst. Current status of the freshwater mussel fauna of the White River, AR, between river miles 10.0 and 255. Subcontractor: John L. Harris.
- 1999 - 2001 Consultant - Clermont County, Ohio Board of Commissioners. Analyst. Analysis of the water quality in the East Fork of the Little Miami River, Ohio. Subcontractor: Paul Russell.
- 1996 - 2002 Research Assistant - Department of Zoology, Miami University. Field Investigator, Taxonomist and Statistical Analyst. Invertebrate Community Index Assessment of the East Fork Little Miami River, Clermont County, Ohio. Principle Investigators: Sheldon I. Guttman and James T. Oris.
- 1998 Consultant - Entergy Corporation. Statistical Analyst. Survey of unionid bivalves below Lake DeGray, AR. Subcontractor: John L. Harris
- 1998 Consultant - Oklahoma Biological Survey. Diver and Field Assistant. Status of freshwater mussels in Grand Lake, OK. Subcontractor: Caryn Vaughn.
- 1998 Consultant - Clermont County Board of Commissioners. Diver and Field Assistant. Sediment analysis of East Fork Lake, Clermont County, Ohio. Subcontractor: Paul Russell.
- 1998 Research Assistant - Department of Microbiology, Miami University. Diver and Field Assistant. Local effect of net-pen aqua-culture on microbial communities in Lake Huron, ON. Principle Investigator: Robert H. Findlay.
- 1994 Consultant - Arkansas Game and Fish Commission. Diver and Field Assistant. Population status of the Neosho Mucket in Arkansas. Subcontractor: John L. Harris.

REFERENCES

- David J. Berg, Doctoral Advisor, Professor, Department of Zoology, Miami University, 1601 University Boulevard, Hampton, OH, 45011, 513-785-3250, bergdj@muohio.edu
- Arthur Bogan, Peer Reference, Curator of Aquatic Invertebrates, North Carolina State Museum of Natural Sciences, 919-733-7450-753, arthur.bogan@ncmail.net
- Kent Johnson, Ph.D., Scholarship of Teaching Reference, Director, Program for Instructional Innovation, University of Oklahoma, 860 Van Vleet Oval, Copeland Hall 101, Norman OK, 73019, 405-325-2323, kentjohnson@ou.edu
- John L. Harris, Masters Co-Advisor and Collaborator Reference, Arkansas Highway and Transportation Department, Environmental Division, 10324 Interstate 30, P.O. Box 2261, Little Rock, AR 72203, 501-569-2285, John.Harris@arkansashighways.com
- Michael J. Vanni, Doctoral Committee and RA Supervisor Reference, Professor, Department of Zoology, Miami University, Pearson Hall, Oxford, OH 45056, 513-529-3192, vannimj@muohio.edu