

## Joseph David Conroy

### Curriculum Vitae

Aquatic Ecology Laboratory  
Department of Evolution, Ecology, and Organismal Biology  
Room 200R, Research Center  
1314 Kinnear Road  
Columbus, Ohio 43212

Birthplace: Lorain, Ohio; 25 June 1979

Citizenship: The United States of America

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### Research Interests

My research focuses on the interface between basic and applied research in aquatic communities and ecosystems. I explore this interface using studies of: plankton community dynamics; nutrient and energy cycling; human effects on coupled watershed/tributary/reservoir/lake systems; fish production and recruitment in natural and aquaculture settings; the role of invasive species in ecosystem stability; and, the role of nutrient control (or lack thereof) on ecosystems. I strive to learn more about the underlying basic ecology of aquatic ecosystems through the study of applied problems.

### Educational Background

**Ph.D.** 2007. The Ohio State University. Evolution, Ecology, and Organismal Biology. Testing the algal loading hypothesis: the importance of Sandusky River phytoplankton inputs to offshore Lake Erie processes. Advisor: Dr. David A. Culver.

**M.S.** 2005. The Ohio State University. Evolution, Ecology, and Organismal Biology. Advisor: Dr. David A. Culver.

**B.S. Biochemistry and B.S. Zoology (Dual Degree).** 2001. The Ohio State University. Graduation with honors in the Liberal Arts, *Magna cum laude*.

## **Professional Experience**

### Faculty

Evolution, Ecology, and Organismal Biology (EEOB) 125: Introductory Aquatic Biology. The Ohio State University, Franz Theodore Stone Laboratory. 2007.

Earth and Space Science 116: Food, Water, and Energy. Ohio Dominican University, Learning Enhanced Adult Degree (LEAD) Program. 2006-2007.

### Post-Doctoral Researcher

Aquatic Ecology Laboratory, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University. September 2007-present.

### Scientist

F.T. Stone Laboratory Visiting Scientist. Summer 2005-2007.

### Fellow

Mary S. Muellhaupt Presidential Fellow, Graduate School, The Ohio State University. Winter-Summer 2007.

University Fellow, Graduate School, The Ohio State University, Autumn 2001-Summer 2002.

### Supervisor

F.T. Stone Laboratory Research Experience for Undergraduates Program. Summer 2005-2007.

### Graduate Research Associate

*Watershed connections to Lake Erie water quality: the Algal Loading Hypothesis.* Spring 2005, Autumn 2005-Summer 2006. Sponsor: Ohio Lake Erie Commission, Ohio Lake Erie Protection Fund.

*Biocomplexity of coupled human-natural systems.* Winter 2005. Sponsor: National Science Foundation.

*Improved hatchery percid production.* Spring-Summer 2003, Summer 2004. Sponsor: Ohio Division of Wildlife, Department of Natural Resources.

### Graduate Teaching Associate

EEOB 647: Plankton. Professor of Record: Dr. David A. Culver or Dr. Douglas D. Kane. Autumn 2002-2004, 2006.

EEOB 655: Limnology. Professor of Record: Dr. David A. Culver. Spring 2002, 2004.

EEOB 617: Theoretical Ecology I. Professor of Record: Dr. Elizabeth A. Marschall. Winter 2004.

EEOB 413: Introductory Ecology. Professor of Record: Dr. Maria Miriti. Winter 2003.

### Laboratory Technician

Limnology Lab, The Ohio State University. Contact: Dr. David A. Culver. 2001.

F.T. Stone Laboratory, The Ohio State University. Manager: John Hageman. 2000.

## **Awards**

Best Fisheries Presentation, 48<sup>th</sup> Ohio Fish and Wildlife Conference. 2008.

Best Oral Presentation, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University. 2007.

Student Travel Award, American Society of Limnology & Oceanography. 2007.

Best Fisheries Presentation, 44<sup>th</sup> Ohio Fish and Wildlife Conference. 2004.

## **Honor Societies**

Phi Beta Kappa, The Ohio State University Chapter. 2001.

Helix: Biological Sciences Honorary, The Ohio State University. 2000.

## **Funding**

F.T. Stone Laboratory Research Experience for Undergraduates. *Comparing hypolimnetic oxygen depletion rates in the Sandusky subbasin and central basin of Lake Erie: the importance of site location and basin morphometry*. 2007. With David A. Culver and Douglas D. Kane. \$8,390.

Ohio Sea Grant College Program. *Supporting the Research Experience for Undergraduates at F.T. Stone Laboratory: boat time*. 2007. With David A. Culver, and Douglas D. Kane. \$7,200.

F.T. Stone Laboratory Research Experience for Undergraduates. *Testing the Algal Loading Hypothesis: undergraduate and graduate research in the Sandusky System (Lake Erie)*. 2006. With David A. Culver, Douglas D. Kane, and Erin L. Quinlan. \$15,000.

F.T. Stone Laboratory Research Experience for Undergraduates. *The influence of algal loading on large lake hypolimnetic hypoxia, a.k.a. "the Dead Zone"*. 2005. With David A. Culver, Douglas D. Kane, and Erin L. Quinlan. \$22,000.

## **Professional Service**

### Reviewer

*Aquatic Sciences*. 2008.

Great Lakes Fishery Commission. 2006.

*Hydrobiologia*. 2002, 2005, 2006.

*Journal of Phycology*. 2006, 2007.

*North American Journal of Fisheries Management*. 2008.

*Oecologia*. 2005.

Wisconsin Sea Grant College Program. 2007.

### State of Ohio

*Member*. Ohio Lake Erie Phosphorus Task Force, Ohio Environmental Protection Agency. 2007.

### The Ohio State University

*Senior Teaching Associate Facilitator*. Conference on Teaching and Learning. 2003.

*Host*. Ronald E. McNair Summer Scholars program. 2003.

### College of Biological Sciences, The Ohio State University

*Committee Member*. Biology Major Review Committee. 2005.

*Committee Member*. Curriculum Committee. 2002-2007.

### Department of Evolution, Ecology, and Organismal Biology, The Ohio State University

*Committee Member*. Curriculum Committee. 2005-2007.

*Committee Member*. Advisory Committee. 2004-2005.

*Committee Member*. Museum of Biological Diversity collections review committee. 2004-2005.

*President*. Graduate Evolution and Ecology Students organization. 2003-2004.

*Secretary/Treasurer*. Graduate Evolution and Ecology Students organization. 2002-2003.

### Other Organizations

*Board of Directors*. Sigma Xi, The Ohio State University Chapter. 2004-2006.

*Board Member*. Friends of Stone Laboratory. 2002-2005.

## **Professional Organization Membership**

American Fisheries Society. 2007-present.  
American Society of Limnology and Oceanography. 2001-present.  
Ecological Society of America. 2001-present.  
International Association of Great Lakes Research. 2001-present.  
Ohio Academy of Science. 2003-present.  
Phycological Society of America. 2006-present.  
Sigma Xi, The Ohio State University Chapter, Associate Member 2004-2007, Full Member 2007-present.  
International Society of Theoretical and Applied Limnology. 2005-present.

## **Professional Organization Service**

*Session Chair.* 2007. *Seeing lakes of the world through phosphorus-colored glasses: past, present, and future.* International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 29 May.

## **Undergraduate Research Students Supervised**

Beam, Melinda. 2005. *The effect of chlorophyll a concentrations on dissolved oxygen depletion in the Sandusky subbasin hypolimnion.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Bennice, Chelsea. 2008. *Altering life history traits: a size-selective predator decreases the size of its prey.* Honors Undergraduate, The Ohio State University. Defended Thesis: 13 May 2008.  
Dubelko, Gwen. 2007. *The presence of metalimnetic oxygen maxima (MOM) in the Sandusky subbasin of Lake Erie.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Dufour, Mark. 2005. *Algal loading: light-limited tributary algae and nutrient-limited offshore algae.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Hitchcock, Lauren. 2006. *Using the Sandusky system as a model for hypolimnetic oxygen depletion in the central basin of Lake Erie.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Lehmann, Sophie. 2007. *Correlation of the metalimnetic to hypolimnetic dissolved oxygen ratio with light penetration in Lake Erie's Sandusky subbasin.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Marasco, Mary. 2006. *Effects of phytoplankton biomass on hypoxia in the Sandusky subbasin hypolimnion.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.  
Percival, Shannon. 2005. *The effects of tributary flow on algal load and hypolimnetic hypoxia.* F.T. Stone Laboratory Research Experience for Undergraduates Program, The Ohio State University.

## **Publications** (advisees denoted with an asterisk)

### **Peer-Reviewed Articles: Published**

Conroy, J.D., E.L. Quinlan, D.D. Kane, and D.A. Culver. 2007. *Cylindrospermopsis* in Lake Erie: testing its association with other cyanobacterial genera and major limnological parameters. *Journal of Great Lakes Research* 33: 519-535.  
Tew, K.S., J.D. Conroy, and D.A. Culver. 2006. Effect of lowered phosphorus fertilization rates on pond production of percid fingerlings. *Aquaculture* 255: 436-446.  
Edwards, W.J., J.D. Conroy, and D.A. Culver. 2005. Hypolimnetic oxygen depletion dynamics in the central basin of Lake Erie. *Journal of Great Lakes Research* 31(Suppl. 2): 262-271.

- Conroy, J.D., D.D. Kane, D.M. Dolan, W.J. Edwards, M.N. Charlton, and D.A. Culver. 2005. Temporal trends in Lake Erie plankton biomass: roles of external phosphorus loading and dreissenid mussels. *Journal of Great Lakes Research* 31(Suppl. 2): 89-110.
- Conroy, J.D., W.J. Edwards, R.A. Pontius, D.D. Kane, H. Zhang, J.F. Shea, J.N. Richey, and D.A. Culver. 2005. Soluble nitrogen and phosphorus excretion of exotic freshwater mussels (*Dreissena* spp.): potential impacts for nutrient remineralisation in western Lake Erie. *Freshwater Biology* 50: 1146-1162.
- Conroy, J.D. and D.A. Culver. 2005. Do dreissenids affect Lake Erie ecosystem stability processes? *American Midland Naturalist* 153: 20-32.

#### Peer-Reviewed Articles: Submitted

- Conroy, J.D., D.D. Kane, and D.A. Culver. 2008. Declining Lake Erie ecosystem health – Evidence from a multi-year, lake-wide plankton study. In: M. Munawar, R. Heath (Eds.), *Checking the Pulse of Lake Erie*. Ecovision World Monograph Series, Aquatic Ecosystem Health and Management Society, Canada. In press.
- Conroy, J.D., D.A. Culver, and R.T. Heath. 2008. Gloom and blooms: simulating phytoplankton growth moving out of a tributary into a large lake. *Verhandlungen der Internationalen Vereinigung für Theoretische und Angewandte Limnologie*. Revised and resubmitted.
- Tew, K.S., J.D. Conroy, and D.A. Culver. 2008. Impact of single- and double-cropping hatchery ponds on juvenile percid survival, growth, and yield: the importance of carryover of phosphorus and copper in the sediments. *Aquaculture*. Revised and resubmitted.
- Conroy, J.D., L. Boegman, H. Zhang, W.J. Edwards, and D.A. Culver. 2008. “Dead zone” dynamics: the importance (or lack thereof) of weather and sampling intensity on calculated hypolimnetic oxygen depletion rates. *Journal of Experimental Marine Biology and Ecology*. In review.
- Culver, D.A., J.D. Conroy, J.T. Tyson, V.C. Crane, and H. Zhang. 2007. “Optimal” P loading in large lakes affects fish communities: Do you prefer walleye or yellow perch? *Verhandlungen der Internationalen Vereinigung für Theoretische und Angewandte Limnologie (Proceedings of the International Society of Theoretical and Applied Limnology)*. In review.

#### Peer-Reviewed Abstracts

- Bennice, C.O.\*, J.D. Conroy, and D.A. Culver. 2008. Altering life history traits: a size-selective predator decreases the size of its prey. *Ohio Journal of Science* 108: A-10.
- Conroy, J.D., G.L. Dubelko\*, S.B. Lehmann\*, D.D. Kane, and D.A. Culver. 2008. The importance of light penetration and chlorophyll concentration on metalimnetic oxygen maxima development in Lake Erie. *Ohio Journal of Science* 108: A-9.
- Conroy, J.D. 2008. Comparing annual trends of dissolved oxygen depletion in Lake Erie: the importance of weather. *Ohio Journal of Science* 108: A-8-A-9.
- Kane, D.D., J.D. Conroy, R.P. Richards, D.B. Baker and D.A. Culver. 2008. Declining water quality in western Lake Erie: correlations between soluble reactive phosphorus loading and phytoplankton biomass. *Ohio Journal of Science* 108: A-8.
- Marasco, M.C.\*, J.D. Conroy, D.D. Kane, L.E. Hitchcock, and D.A. Culver. 2007. Does tributary-derived phytoplankton biomass influence hypolimnetic hypoxia in the Sandusky subbasin of Lake Erie? *Ohio Journal of Science* 107: A-27.
- Conroy, J.D., C.C. Clevinger, R.T. Heath, and D.A. Culver. 2007. Phosphorus limitation of phytoplankton growth along a transect from the Sandusky River to Lake Erie. *Ohio Journal of Science* 107: A-28.
- Conroy, J.D. and D.A. Culver. 2005. Lake Erie ecosystem change: phytoplankton communities. *Ohio Journal of Science* 105: A-32.

## Popular Press Articles

- Conroy, J.D. 2006. What about the REU experience? *Twine Line* 28(1): 9.
- Conroy, J.D. 2006. Dead zone expands. *North American Fisherman*. April: 27.
- Conroy, J.D. 2005. The mini dead zone – an old problem in a new area in Lake Erie. *Twine Line* 27(3): 4-5.
- Conroy, J.D. 2004. Regents' decision to cut lab funds short-sighted. To the editor. *Columbus Dispatch*, November 8; Section A: 6.
- Conroy, J.D. 2003. OSU's class sizes necessary, worthwhile. To the editor. *Columbus Dispatch*, January 29; Section A: 14.

## **Presentations/Posters**

(presenting author bolded, advisee talks denoted with an asterisk, and invited talks indicated)

### 2008

- Bennice, C.O.\***, J.D. Conroy, and D.A. Culver. 2008. *Altering life history traits: a size-selective predator decreases the size of its prey*. The Ohio State University Denman Undergraduate Research Forum. Columbus, Ohio, 14 May. Poster.
- Kane, D.D.**, J.D. Conroy, D.A. Culver, R.P. Richards, and D.B. Baker. 2008. *Correlations between soluble reactive phosphorus (SRP) loading and phytoplankton biomass in the western basin of Lake Erie*. Paper presented at Fifth Biennial Lake Erie Millennium Network Conference. Windsor, Ontario, Canada, 30 April. **Invited.**
- Conroy, J.D.**, G.L. Dubelko\*, S.B. Lehmann\*, D.D. Kane, and D.A. Culver. 2008. *The importance of light penetration and chlorophyll concentration on metalimnetic oxygen maxima (MOM) development in Lake Erie*. Ohio Academy of Science, Annual Meeting. Toledo, Ohio, 12 April.
- Conroy, J.D.** 2008. *Comparing annual trends of dissolved oxygen depletion in Lake Erie: the importance of weather*. Ohio Academy of Science, Annual Meeting. Toledo, Ohio, 12 April.
- Kane, D.D.**, J.D. Conroy, R.P. Richards, D.B. Baker, and D.A. Culver. 2008. *Declining water quality in western Lake Erie: correlations between soluble reactive phosphorus (SRP) loading and phytoplankton biomass*. Ohio Academy of Science, Annual Meeting. Toledo, Ohio, 12 April.
- Bennice, C.O.\***, J.D. Conroy, and D.A. Culver. 2008. *Altering life history traits: a size-selective predator decreases the size of its prey*. Ohio Academy of Science, Annual Meeting. Toledo, Ohio, 12 April.
- Conroy, J.D.**, J.C.S. Denlinger, R.S. Hale, and R.A. Stein. 2008. *Working at the intersection of wildlife, people, and habitat: building a conceptual model of how reservoirs work*. Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 21 February.
- Conroy, J.D.** 2008. *Quantifying the potential for restoring Sandusky Bay, Lake Erie: a mere dream?* The 48<sup>th</sup> Ohio Fish and Wildlife Conference. Columbus, Ohio, 1 February.

### 2007

- Conroy, J.D.** 2007. *Recent changes in the lower trophic levels of Lake Erie: the roles of external phosphorus load, exotic mussels, and algal loading*. Department of Zoology Seminar Series, Miami University. Oxford, Ohio, 1 October. **Invited.**
- Jacob, A.P.**, J.D. Conroy, K.S. Tew, and D.A. Culver. 2007. *Can decreased phosphorus fertilization rates increase juvenile percid production?* American Fisheries Society, 137<sup>th</sup> Annual Meeting. San Francisco, California, 3 September. Poster.
- Crane, V.C.**, J.D. Conroy, E.A. Marschall, J. Tyson, R. Knight, and D.A. Culver. 2007. *Spatial differences in control of year-class formation in Lake Erie percids*. American Fisheries Society, 137<sup>th</sup> Annual Meeting. San Francisco, California, 3 September.
- Culver, D.A.**, J.D. Conroy, J.T. Tyson, V.C. Crane, and H. Zhang. *Optimal P loading in large lakes affects fish communities: do you prefer walleye or yellow perch?* International Society of Theoretical and Applied Limnology, 30<sup>th</sup> Congress. Montreal, Canada, 17 August.
- Conroy, J.D.** 2007. *Connecting watersheds and large lakes: algal loading affects primary productivity in Lake Erie*. International Society of Theoretical and Applied Limnology, 30<sup>th</sup> Congress. Montreal, Canada, 13 August.
- Conroy, J.D.** 2007. *Phosphorus, cyanobacteria, and hypoxia, oh my! Continued impairments in Lake Erie*. F.T. Stone Laboratory Research Brief. Put-in-Bay, Ohio, 26 July.

- Culver, D.A.**, H. Zhang, J.D. Conroy, L. Boegman, and W.J. Edwards. 2007. *Process-oriented approaches to determining hypoxia impacts in large lakes*. International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 1 June.
- Crane, V.C.**, J.D. Conroy, E.A. Marschall, J.T. Tyson, R. Knight, and D.A. Culver. 2007. *Spatial variation in lower trophic level impacts on Lake Erie yellow perch recruitment*. International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 31 May.
- Conroy, J.D.**, R.T. Heath, and D.A. Culver. 2007. *The importance of a large tributary (Sandusky River) as a source of cyanobacteria to a large lake (Lake Erie)*. International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 31 May.
- Conroy, J.D.**, C.C. Clevinger, R.T. Heath, and D.A. Culver. 2007. *Phosphorus loading from a large tributary (Sandusky River) of Lake Erie: expansion of the classic model*. International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 29 May.
- Clevinger, C.C.**, J.D. Conroy, and R.T. Heath. 2007. *Analysis of microbial community structure and ecosystem functions in Sandusky Bay*. International Association of Great Lakes Research, Annual Meeting. State College, Pennsylvania, 29 May.
- Conroy, J.D.**, C.C. Clevinger, R.T. Heath, and D.A. Culver. 2007. *Phosphorus limitation of phytoplankton growth along a transect from the Sandusky River to Lake Erie*. Ohio Academy of Science, Annual Meeting. Highland Hills, Ohio, 21 April.
- Marasco, M.C.\***, J.D. Conroy, D.D. Kane, L.E. Hitchcock, and D.A. Culver. 2007. *Does tributary-derived organic phytoplankton biomass influence hypolimnetic hypoxia in the Sandusky subbasin of Lake Erie?* Ohio Academy of Science, Annual Meeting. Highland Hills, Ohio, 21 April.
- Culver, D.A.**, H. Zhang, J.D. Conroy, L. Boegman, and W.J. Edwards. 2007. *Hydromechanics and the impact of hypoxia on Lake Erie plankton, benthos, and fish*. Ecological Impacts of Hypoxia on Living Resources, National Oceanic and Atmospheric Administration. Bay St. Louis, Mississippi, 26 March. Poster. **Invited**.
- Culver, D.A.**, J. Conroy, and K. Tew. 2007. *Ecological approaches to optimize saugeye aquaculture in hatchery ponds*. Columbus Naturalist Society. Columbus, Ohio 12 February. **Invited**.
- Conroy, J.** and D.A. Culver. 2007. *Cyanobacteria loading to Lake Erie: what is it good for?* Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 25 January.

## 2006

- Conroy, J.**, D. Kane, E. Quinlan, M. Thomas, M. Beam, M. Dufour, and S. Percival. 2006. *The influence of algal loading on hypolimnetic hypoxia: the Sandusky Subbasin 'Dead Zone'*. Ohio Lake Erie Conference: Lake Erie Protection and Restoration – Our Achievements, Our Challenges. Elyria, Ohio, 7 September. Poster.
- Kane, D.D.**, J.D. Conroy, E.L. Quinlan, W.J. Edwards, M.A. Thomas, and D.A. Culver. 2006. *Cyanobacterial loading to Lake Erie: nutrient and light effects in the Sandusky System*. International Association of Great Lakes Research, Annual Meeting. Windsor, Ontario, Canada, 26 May.
- Quinlan, E.L.**, J.D. Conroy, D.D. Kane, and D.A. Culver. 2006. *A corridor to invasion: Cyndrospermopsis in Lake Erie*. International Association of Great Lakes Research, Annual Meeting. Windsor, Ontario, Canada, 25 May.
- Conroy, J.D.**, E.L. Quinlan, M.A. Thomas, D.D. Kane, W.J. Edwards, and D.A. Culver. 2006. *Sandusky subbasin (Lake Erie) hypoxia – causes, development, and consequences*. International Association of Great Lakes Research, Annual Meeting. Windsor, Ontario, Canada, 23 May.
- Conroy, J.D.** 2006. *From streams to reservoirs and rivers to lakes: the effect of people on water resources*. Earth Day Environmental Justice Conference, Kent State University – East Liverpool. East Liverpool, Ohio, 22 April. **Invited**.
- Conroy, J.D.** and D.A. Culver. 2006. *Crossing a threshold in a large lake ecosystem – the Lake Erie “flip-flop”*. Darwin Award Competition, Department of EEOB, The Ohio State University, Columbus, Ohio, 6 April.
- Conroy, J.D.**, D.D. Kane, E.L. Quinlan, and D.A. Culver. 2006. *Seeing is believing – synergy amongst Lake Erie plankton and nutrients, exotic species, and climate change*. Fourth Biennial Lake Erie Millennium Network Conference. Windsor, Ontario, Canada, 28 February. **Invited**.
- Stanford, K.M.** and **J.D. Conroy**. 2006. *Are you experienced? Research experience for undergraduates program at F.T. Stone Laboratory*. Friends of Stone Laboratory and Ohio Sea Grant College Program Winter Program. Columbus, Ohio, 22 February. **Invited**.
- Conroy, J.D.**, **V.C. Crane**, D.D. Kane, E.L. Quinlan, and D.A. Culver. 2006. *Cyanobacteria, zooplankton, and young-of-year percids: re-eutrophication and re-recruitment in Lake Erie*. Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 24 January.

## 2005

- Conroy, J.**, D. Kane, E. Quinlan, M. Thomas, M. Beam, M. Dufour, and S. Percival. 2005. *The influence of algal loading on hypolimnetic hypoxia: the Sandusky Subbasin 'Dead Zone'*. Ohio Sea Grant Program Assessment. Columbus, Ohio, 21 August. Poster.
- Conroy, J.D.** 2005. *Watershed connections to Lake Erie: the Algal Loading Hypothesis*. F.T. Stone Laboratory Research Brief. Put-in-Bay, Ohio, 11 August.
- Conroy, J.D.** 2005. *Lake Erie ecosystem change: phytoplankton communities*. Ohio Academy of Science, Annual Meeting. Bowling Green, Ohio, 2 April.
- Conroy, J.D.**, R.A. Pontius, W.J. Edwards, and D.A. Culver. 2005. *Excretion by invasive dreissenid mussels: evidence for changes in Lake Erie*. American Society of Limnology and Oceanography Aquatic Sciences Meeting. Salt Lake City, Utah, 22 February.
- Conroy, J.D.** and D.A. Culver. 2005. *Crossing a threshold in a large lake ecosystem – the Lake Erie “flip-flop”*. American Society of Limnology and Oceanography Aquatic Sciences Meeting. Salt Lake City, Utah, 21 February.
- Conroy, J.D.**, N. Gargasz, and D.A. Culver. 2005. *Back to the future – lower trophic levels in Lake Erie*. Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 28 January.
- Jacob, A.P.**, J.D. Conroy, A. Voigt, R.P. Lanno, M. Hosack, K.S. Tew, and D.A. Culver. 2005. *Avast! Catfish, copper sulfate, sonar, saugeye, and stonewort (but no zebra mussels)*. Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 28 January.
- Culver, D.A.**, J.D. Conroy, and A.P. Jacobs. 2005. *Fish recruitment, water quality, and introduced species: it's not just Lake Erie anymore*. Ohio Department of Natural Resources, Division of Wildlife Annual Research Review. Columbus, Ohio, 27 January.
- Conroy, J.D.** and D.A. Culver. 2005. *The role of invasive mussels, Dreissena spp., on Lake Erie ecosystem processes*. Darwin Award Competition, Department of EEOB, The Ohio State University, Columbus, Ohio, 13 January.
- Conroy, J.D.**, A.P. Jacob, M. Hosack, K.S. Tew, and D.A. Culver. 2005. *Percid production and fertilization rates: maximizing yield while minimizing cost*. Coolwater Fish Culture Workshop. Newark, Ohio, 10 January.
- Jacob, A.P.**, J.D. Conroy, A. Voigt, R.P. Lanno, M. Hosack, K.S. Tew, and D.A. Culver. 2005. *An evaluation of the effects and effectiveness of herbicides in aquaculture ponds*. Coolwater Fish Culture Workshop, Newark, Ohio, 10 January.

## 2004

- Culver, D.A.**, J.D. Conroy, W.J. Edwards, and R.A. Pontius. 2004. *The impact of dreissenid ammonia and phosphate excretion on Lake Erie*. The 13<sup>th</sup> International Conference on Aquatic Invasive Species. Ennis, County Clare, Ireland, 24 September.
- Culver, D.A.** and J.D. Conroy. 2004. *Differential excretion of ammonia and phosphate by three dreissenid taxa*. The 13<sup>th</sup> International Conference on Aquatic Invasive Species. Ennis, County Clare, Ireland, 24 September.
- Edwards, W.J.**, J.D. Conroy, D.D. Kane, D.M. Dolan, M.N. Charlton, and D.A. Culver. 2004. *Recent increases in Lake Erie phytoplankton biomass: roles of external phosphorus loading and exotic dreissenid mussels*. International Association of Great Lakes Research, Annual Meeting. Waterloo, Ontario, Canada, 27 May.
- Conroy, J.D.** and D.A. Culver. 2004. *The role of invasive mussels, Dreissena spp., on Lake Erie ecosystem processes*. Midwest Ecology and Evolution Conference. South Bend, Indiana, 7 March.
- Conroy, J.D.**, K.S. Tew, and D.A. Culver. 2004. *Improving the reliability of percid production ponds by varying fertilization regimes*. Ohio Department of Natural Resources, Division of Wildlife annual research review. Columbus, Ohio, 27 February.
- Culver, D.A.**, N. Gargasz, and J.D. Conroy. 2004. *Lake Erie lower trophic level impacts on fish recruitment: is Lake Erie getting worse or better?* Ohio Department of Natural Resources, Division of Wildlife annual research review. Columbus, Ohio, 26 February.
- Culver, D.A.**, J.D. Conroy, H. Zhang, D.M. Dolan, and M.N. Charlton. 2004. *Eutrophication of coastal waters: a large lake perspective*. American Society of Limnology and Oceanography Ocean Research Conference. Honolulu, Hawai'i, 17 February.
- Tew, K.S., **J.D. Conroy**, and D.A. Culver. 2004. *Reduced inorganic phosphorus fertilization and percid pond production: does less equal more?* The 44<sup>th</sup> Ohio Fish and Wildlife Conference. Columbus, Ohio, 6 February.

## 2003

- Conroy, J.D.**, D.A. Culver, W.J. Edwards, D.D. Kane, R.A. Pontius, J.N. Richey, J.F. Shea, and H. Zhang. 2003. *Excretion in two dreissenid congeners: implications for the Lake Erie ecosystem*. Darwin Award Competition, Department of EEOB, The Ohio State University, Columbus, Ohio, 30 October.
- Culver, D.A.**, J.D. Conroy, and W.J. Edwards. 2003. *The contributions of lower trophic level dynamics, dreissenid mussels, and physical processes to Lake Erie trophic structure – western basin is dominant*. Progress meeting of United States EPA funded grant investigating Lake Erie trophic structure. Windsor, Ontario, Canada, 10 November.
- Conroy, J.D.**, D.A. Culver, W.J. Edwards, D.D. Kane, R.A. Pontius, J.N. Richey, J.F. Shea, and H. Zhang. 2003. *Differences in excretion by dreissenid congeners: implications for the nearshore ecosystem*. International Association of Great Lakes Research, Annual Meeting. Chicago, Illinois, 25 June.
- Culver, D.A.**, J.D. Conroy, W.J. Edwards, D.D. Kane, R.A. Pontius, J.N. Richey, J.F. Shea, and H. Zhang. 2003. *Do dreissenid mussels cause the Lake Erie “Dead Zone”?* International Association of Great Lakes Research, Annual Meeting. Chicago, Illinois, 24 June.
- Edwards, W.J.**, J.D. Conroy, G. Matisoff, H. Carrick, and D.A. Culver. 2003. *Sensitivity of hypolimnetic oxygen concentrations to recent changes in the Lake Erie ecosystem*. International Association of Great Lakes Research, Annual Meeting. Chicago, Illinois, 24 June.
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