

Douglas D. Kane
Curriculum Vitae

Office: 131 Bareis Hall
Heidelberg University
Tiffin, OH 44883
419-783-2593 (office)

dkane@heidelberg.edu

Residence: 4166 Niagara Ln.
Perrysburg, OH 43551

614-937-8811 (cell)

Work Experience

Assistant Professor *Fall 2020- Present*
Department of Biology and Environmental Science
Research Scientist *Summer 2020- Present*
National Center for Water Quality Research
Heidelberg University

Professor *Fall 2016- Summer 2020,*
Associate Professor *Fall 2012- Summer 2016,*
Assistant Professor *Fall 2007- Summer 2012*
Division of Natural Science, Applied Science, and Mathematics
Defiance College

Fall 2013, 2014, 2019
Adjunct Instructor
Department of Biological Sciences
Bowling Green State University

Fall 2019-present
Graduate Faculty- Adjunct
Department of Biological Sciences
Bowling Green State University

Spring 2014-present
Graduate Faculty- External Affiliate
Department of Environmental Sciences
University of Toledo

Summers 2005-2019
Visiting Lecturer and Visiting Scientist
F.T. Stone Laboratory
The Ohio State University

Summers 2017-2019
Visiting Researcher
Lake Erie Center
Department of Environmental Sciences
University of Toledo

Spring 2017

Visiting Professor

Department of Zoology
São Paulo State University (UNESP)- Botucatu, Brazil

Fall 2006-Spring 2007

Visiting Assistant Professor

Department of Biology/Toxicology and Environmental Science Program
Ashland University

Autumn 2005-Winter 2006

Visiting Assistant Professor

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

Winter 2005, Spring 2005, 2006

Lecturer

Life and Earth Sciences Department
Otterbein College (now Otterbein University)

Autumn 2004

Visiting Lecturer

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

Summer 2004

Visiting Instructor

F.T. Stone Laboratory, The Ohio State University

Summer 1999- Summer 2004

Graduate Teaching Associate/ Research Associate

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

Research Interests

- My research interests include broadly aquatic and terrestrial ecology, and more narrowly biology and ecology of phytoplankton, zooplankton, benthic macroinvertebrates, terrestrial insects, and forest tree communities. I am interested in applied issues dealing with human-induced changes to aquatic and terrestrial communities, ecosystems, and landscapes including causes and consequences of eutrophication on river and lake ecosystems and invasive species' effects on lake and forest communities and lake ecosystems. My major research systems for which I have secured research funding have been the Maumee and Sandusky River watersheds, Lake Erie's western, central, and eastern basins, and islands specifically looking at Harmful Algal Blooms and watershed-river & lake interactions.

Education

Doctor of Philosophy

The Ohio State University

Evolution, Ecology, and Organismal Biology

Graduation Date: August 2004

Dissertation Title: *The Development of a Planktonic Index of Biotic Integrity for Lake Erie*

Link: http://rave.ohiolink.edu/etdc/view?acc_num=osu1092242571

Doctoral Advisor: David A. Culver

Master of Science (Non-thesis)

The Ohio State University

Evolution, Ecology, and Organismal Biology

Graduation Date: June 2002

Bachelor of Science

The Ohio State University

Major: Zoology

Minors: Plant Biology and History of Art

Graduation Date: June 1999

Graduated Magna Cum Laude and with Honors in the Liberal Arts

Certificate:

Geographic Information Systems

Columbus State Community College

Graduation Date: June 2008

Honors Diploma

Westlake High School

Westlake, Ohio

Graduation Date: June 1995

Permit:

ODNR-Division of Wildlife Educational Animal Permit 17-206- Permitted to collect fishes and macroinvertebrates- Lake Erie and its tributaries

Courses Taught at Heidelberg University

Biology 124- Biology II- 40 Students- Lecture and Lab
Biology 312- Evolution- 15 Students- Lecture
Environmental Science 101- Introduction to Environmental Science- 30 Students- Lecture
Environmental Science 101L- Introduction to Environmental Science- 15 Students- Lab
Environmental Science 234- Ecology- 4 Semester Hours- 10 Students- Lecture and Lab
Environmental Science 393- Independent Study
Watershed Science 235- Freshwater Ecology- 4 Semester Hours- 15 Students- Lecture and Lab
Watershed Science 305- Wetlands- 3 Semester Hours- 10 Students- Lecture

Courses Taught At Defiance College

Art 202/402- Topics in Art History: Art of the Italian Renaissance- 3 Semester Hours- 15 Students- Lecture
Biology 113- The Environment Around Us- 4 Semester Hours- 10-30 Students- Lecture and Lab
Biology 120- Principles of Biology I- 4 Semester Hours- 30-50 Students- Lecture and Lab
Biology 129- Principles of Biology II- 4 Semester Hours- 10-20 Students- Lecture and Lab
Biology 250- Field Zoology- 4 Semester Hours- 5-10 Students- Lecture and Lab
Biology 270- Field Botany- 4 Semester Hours- 5-10 Students- Lecture and Lab
Biology 320- Ecology- 4 Semester Hours- 15-30 Students- Lecture and Lab
Biology 350- Fisheries and Wildlife Management-4 Semester Hours-5-10 Students-Lecture and Lab
Biology 420- Restoration Ecology I- 4 Semester Hours- 5 Students- Lecture and Lab
Biology 421- Restoration Ecology II- 4 Semester Hours- 2-5 Students- Lecture and Lab
Biology 422- Restoration Ecology III- 4 Semester Hours- 2 Students- Lecture and Lab
Core 220- Inquiry in Science- 4 Semester Hours- 5 Students- Lecture and Lab
Forensic Science 343- Forensic Science I- Forensic Entomology/ Forensic Limnology- 3 Semester Hours- Lab (part)
Freshman Studies 101- First Year Experience- 1 Semester Hour- Workshop- 15 students
McMaster School for Advancing Humanity- New Orleans Learning Community 373- 1-3 Semester Hours- 5 Students- Workshop
Natural Sciences 201- Development of Life on Earth- 4 Semester Hours- 20 Students- Lecture and Lab
Natural Sciences 220- Inquiry in Science- 4 Semester Hours- 10 Students- Lecture and Lab
Natural Sciences 310- Geographic Information Systems- 4 Semester Hours- 10 Students- Lecture and Lab
Natural Sciences 378- Junior Science Seminar- 2 Semester Hour- 9-25 Students- Workshop

Courses Taught at Bowling Green State University

BIOL 4250- Limnology- 3 Semester Hours- 15 Students- Lecture and Lab (part)
BIOL 4720/5590- Ecology of Fishes- 3 Semester Hours- 12 students- Lab only

Courses Taught at Ohio State University- Stone Laboratory Campus

Plankton Identification Workshop- Non-credit Workshop- Workshop

EEOB 3410/ 503.03/ 413.03- Ecology- 4 Semester Hours/ 6/5 Quarter Hours- 6- 12 Students-
Lecture and Lab

EEOB 4950/ 513- Field Ecology- 2 Semester Hours/ 3 Quarter Hours- 6-12 Students Lecture and
Lab

EEOB 652- Limnology- 5 Quarter Hours- 4-10 Students- Lecture and Lab

Courses Taught at Ohio State University- Main Campus

EEOB 413.01- Introduction to Ecology- 3 Quarter Hours- 107-141 Students- Lecture

EEOB 413.02- Introduction to Ecology- 2 Quarter Hours- 15 Students- Lab

EEOB 647- Plankton- 5 Quarter Hours- 8 students- Lecture and Lab

Courses Taught At Ashland University

Biology 110- Ecology and the Human Environment- 4 Semester Hours- 15-20 Students- Lecture
and Lab

Biology 411- Limnology- 4 Semester Hours- 4 students- Lecture and Lab

Courses Taught At Otterbein University

Life Science 103- Animals and Ecology- 5 Quarter Hours- 15-20 students- Lab

Life Science 204- Environmental Biology- 5 students- Lecture and Lab

Integrative Studies 350- Being in Nature-5 Quarter Hours- 50 students- Lecture

Guest Lectures:

Arts and Humanities 295- Screening Disability (*One Flew Over the Cuckoo's Nest*)

History 204- Europe: The Italian Renaissance to the Present History- Italian Renaissance to
Present (*Italian Renaissance Art*) (twice)

Music 230- History of Rock and Roll (*Progressive Rock in the 1970's and Progressive Rock in
the 1980's*) (thrice)

Professional Societies:

Aquatic Ecosystem Health and Management Society

Association for the Sciences of Limnology and Oceanography

International Association for Great Lakes Research

Ohio Academy of Science

Ohio Lake Management Society

Sigma Xi

Water Management Association of Ohio

Editorial Boardmember:

Aquatic Ecosystem Health and Management

Open Journal of Ecology

Guest Associate Editor

Lake Erie- Watershed to Open Lake - Journal of Great Lakes Research Special Section- Volume

Manuscript Reviewer for:

Aquatic Ecosystem Health and Management
Annales de Limnologie - International Journal of Limnology
Canadian Journal of Microbiology
Case Studies in the Environment
Climate
Ecological Indicators
Encyclopedia of Water: Science, Technology, and Society
Environmental Management
Environmental Monitoring and Assessment
Environmental Science: Processes & Impacts
Environmental Science and Pollution Research
Environmental Science and Technology
Freshwater Biology
Harmful Algae
Humanities
Hydrobiologia
ICES Journal of Marine Science
Inland Waters
International Journal of Environmental Research and Public Health
Journal of Applied Phycology
Journal of Ecology and the Natural Environment
Journal of Environmental Management
Journal of Great Lakes Research
Journal of Limnology
Knowledge and Management of Aquatic Ecosystems
Lake and Reservoir Management
Limnology and Oceanography
Marine Environmental Research
Ohio Journal of Science
Open Journal of Applied Science
Open Journal of Ecology
PLOS One
Polish Journal of Environmental Studies
Science
Scientific Reports
Sustainability
Toxins
Water
Water Research

Grant Reviewer for:

Illinois-Indiana Sea Grant

Maryland Sea Grant

Michigan Sea Grant

National Science Foundation (NSF)- Division of Ocean Sciences- Biological Oceanography Program

Natural Sciences and Engineering Research Council of Canada (NSERC)- Discovery Grant

Ohio Agricultural Research and Development Center SEEDs Program

Ohio Sea Grant

Wisconsin Sea Grant

Research and Consulting Funding

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2020)- \$1,596

University of Toledo Visiting Researcher Grant (2019)- \$6,000

University of Toledo Visiting Researcher Grant (2018)- \$5,000

Ohio Department of Higher Education (2018-2020)- Co- Principal Investigator- \$199,108

University of Toledo Visiting Researcher Grant (2017)- \$4,750

Ohio Water Resources Center (2016-2017)- Co- Investigator- \$33,139

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2016)- \$4,515

Lake Erie Protection Fund Grant (2016)- Co-Investigator- \$15,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2015)- ~\$8,700

Ohio Department of Higher Education (2015-2017)- Associate Investigator- \$250,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2014)- ~\$9,000

Lake Erie Protection Fund Grant (2014)- Co-Investigator- \$3,130

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2013)- ~\$9,000

Great Lakes Innovative Stewardship through Education Network (GLISTEN) (2013-2014)-
Subgrantee- \$4,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2012)- ~\$6,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2011)- ~\$7,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2010)- ~\$13,800

Department of Fisheries and Oceans, Canada (2010)- \$4,000

Great Lakes Innovative Stewardship through Education Network (GLISTEN) (2010-2011) – Co-
Investigator- \$90,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2009)- ~\$15,000

Lake Erie Protection Fund Grant (2009)- Co-Investigator- \$167,040

United States Environmental Protection Agency Grant (2009)- Co-Investigator- \$101,304

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2008)- ~\$20,000

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2007)- \$15,294

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2006)- \$19,412

Visiting Scientist/REU Grant- F.T. Stone Laboratory (2005)- \$17,700

Recent Collaborators

R. M. McKay, University of Windsor; M.G. Nogueira, São Paulo State University; T. W. Davis, G. Bullerjahn, Bowling Green State University; J. Conroy, Ohio Division of Wildlife; D. Culver, J. Chaffin, S. Ludsin, The Ohio State University; T. Bridgeman, C. Mayer, University of Toledo; D. Bade, Kent State University, T.P. Simon (deceased), Indiana University, C. Lenhart, University of Minnesota, M. Munawar, Department of Fisheries and Oceans; D. Baker (deceased), P. Richards (retired), Heidelberg University.

Research Gate Profile- https://www.researchgate.net/profile/Douglas_Kane/

Google Scholar Profile- <http://scholar.google.com/citations?user=fk4QM7kAAAAJ&hl=en>

Scopus Profile- <http://www.scopus.com/authid/detail.url?authorId=7101753192>

Publications:

Peer-Reviewed Manuscripts

(Impact Factor (Year (if not 2020)), # of Citations as of 8/12/20, (Web of Science-based))

Kane, D.D., Manning, N.F., Johnson, L.T. 2022. When it snows it pours: Increased chloride concentrations in the Cuyahoga River during the last half century. 46 manuscript pp. Target Journal: Journal of Great Lakes Research. **In Preparation.**

Laiveling, A., Nauman, C., Stanislawczyk, K., Bair, H., **Kane, D.D.**, Davis, T.W., Chaffin, J.D. 2022. Potamoplankton of the Maumee River during 2018 and 2019: The relationship between cyanobacterial toxins and environmental factors. 42 manuscript pp. Journal of Great Lakes Research. **In Review.**

Chaffin, J.D., **Kane, D.D.**, Johnson, A. 2020. Effectiveness of a fixed-depth sensor deployed from a buoy to estimate water-column cyanobacterial biomass depends on wind speed. Journal of Environmental Sciences 93: 23-29. DOI: 10.1016/j.jes.2020.03.003. **(4.302, 0)**

Chaffin, J.D., Stanislawczyk, K., **Kane, D.D.**, Lambrix, M. 2020. Nutrient addition effects on chlorophyll a, phytoplankton biomass, and heterocyte formation in Lake Erie's central basin during 2014-2017: Insights into diazotrophic blooms in high nitrogen water. Freshwater Biology 65: 2154-2168. DOI: 10.1111/fwb.13610. **(3.404, 0)**

Matson, P.G., Boyer, G.L., Bridgeman, T.B., Bullerjahn, G.S., **Kane, D.D.**, McKay R.M.L., McKindles, K.M., Raymond, H.A., Snyder, B.K., Stumpf, R.P., Davis, T.W. 2020. Biophysical drivers facilitating a toxigenic cyanobacterial bloom in a major Great Lakes tributary. Limnology and Oceanography 65: 2866-2882. DOI: 10.1002/lno.11558. **(3.778, 0)**

Chaffin, J.D., Mishra, S., **Kane, D.D.**, Bade, D.L., Stanislawczyk, K., Slodysko, K.N., Jones, K.W., Parker, E.M., and Fox, E.L. 2019. Cyanobacterial blooms in the central basin of Lake Erie: Potentials for cyanotoxins and environmental drivers. *Journal of Great Lakes Research* 45: 277-289. <https://doi.org/10.1016/j.jglr.2018.12.006>. **(1.933, 6)**

Pomari, J., **Kane, D.D.**, Ferreira, R.A.F., and Nogueira, M.G. 2019. A new tool to assess ecosystem health in large subtropical reservoirs: development and validation of a Planktonic Index of Biotic Integrity. *Aquatic Ecosystem Health and Management* 22: 15-29. <https://doi.org/10.1080/14634988.2019.1562837>. **(0.761, 0)**

Chaffin, J.D., **Kane, D.D.**, Stanislawczyk, K., and Parker, E. M. 2018. Accuracy of data buoys for measurement of cyanobacteria, chlorophyll, and turbidity in a large lake (Lake Erie, North America): Implications for estimation of cyanobacterial bloom parameters from water quality sonde measurements. *Environmental Science and Pollution Research* 25: 25175–25189. doi: 10.1007/s11356-018-2612-z. **(3.056, 5)**

Pomari, J., **Kane, D.D.**, and Nogueira, M.G. 2018. Application of multiple-use indices to assess reservoirs water quality and the use of plankton community data for biomonitoring purposes. *International Journal of Hydrology* 2: 173-184. **(0, 0)**

Conroy, J.D., **Kane, D.D.**, Quinlan, E.L. Edwards, W.J., and Culver, D.A. 2017. Abiotic and biotic controls of phytoplankton biomass dynamics in a freshwater tributary, estuary, and large lake ecosystem: the Sandusky Bay (Lake Erie) chemostat. *Inland Waters* 7: 473-492. doi: 10.1080/20442041.2017.1395142. **(1.516, 6)**

Perello, M.M., **Kane, D.D.**, Golnick, P., Hughes, M.C., Thomas, M.A, and Conroy, J.D. 2017. Effects of local weather variation on water-column stratification and hypoxia in the western, Sandusky, and central basins of Lake Erie. *Water* 9, 279. doi:10.3390/w9040279. **(2.544, 6)**

Simpson, K.E., Edwards, W.J., and **Kane, D.D.** 2016. Population dynamics of *Leptodora kindtii* in the island region of western Lake Erie before and after the invasion of the predacious cladoceran *Bythotrephes longimanus*. *Ohio Journal of Science* 116: 51-58. **(0.114 (2009), 0)**

Kane, D.D., Ludsin, S.A., Briland, R.D., Culver, D.A., and Munawar, M. 2015. Ten+ years gone: Continued degradation of offshore planktonic communities in U.S. waters of Lake Erie's western and central basins (2003–2013). *Journal of Great Lakes Research* 41: 930-933. doi:10.1016/j.jglr.2015.06.002. **(1.933, 8)**

Perello, M.M., Simon, T.P., Thompson, H.A., and **Kane, D.D.** 2015. Feeding ecology of the invasive round goby, *Neogobius melanostomus* (Pallas 1811), based on laboratory size preference and field diet associated depth differences in the western basin of Lake Erie. *Aquatic Invasions* 10: 463-474. **(1.856, 2)**

Conroy, J.D., **Kane, D.D.**, Briland, R.D., and Culver, D.A. 2014. Systemic, early-season *Microcystis* blooms in western Lake Erie and its agricultural tributaries (Maumee and Sandusky rivers). *Journal of Great Lakes Research* 40: 518-523. doi: 10.1016/j.jglr.2014.04.015.

(1.933, 23)

Kane, D.D., Conroy, J.D., Richards, R.P., Baker, D.B., and Culver, D.A. 2014. Re-eutrophication of Lake Erie: correlation of tributary nutrient loads and phytoplankton biomass. *Journal of Great Lakes Research* 40: 496-501. doi: 10.1016/j.jglr.2014.04.004. (1.933, 117) **HIGHLY CITED PAPER**

Bridgeman, T.B., Chaffin, J.D., **Kane, D.D.**, Conroy, J.D., Panek, S.E., and Armenio, P. 2012. From river to lake: phosphorus and algal transformations in western Lake Erie. *Journal of Great Lakes Research* 38: 90-97. doi:10.1016/j.jglr.2011.09.010. (1.933, 69)

Kutovaya, O.A., McKay, R.M.L., Beall, B., Wilhelm, S.W., **Kane, D.D.**, Chaffin, J.D., Bridgeman, T.B., and Bullerjahn, G.S. 2012. Evidence against fluvial seeding of recurrent toxic blooms of *Microcystis* spp. in Lake Erie's western basin. *Harmful Algae* 15: 71-77. doi:10.1016/j.hal.2011.11.007. (3.707, 25)

Munawar, M., Fitzpatrick, M., Munawar, I.F., Niblock, H., and **Kane, D.** 2012. Assessing ecosystem health impairments using a battery of ecological indicators: Bay of Quinte, Lake Ontario example. *Aquatic Ecosystem Health and Management* 15:430-444. doi:10.1080/14634988.2012.731367. (0.761, 14)

Chaffin, J.D., and **Kane, D.D.** 2010. Burrowing mayfly (Ephemeroptera: Ephemeridae: *Hexagenia* spp.) bioturbation and bioirrigation: a source of internal phosphorus loading in Lake Erie. *Journal of Great Lakes Research* 36: 57-63. (1.933, 24)

Kane, D.D., Gordon, S.I., Munawar, M., Charlton, M.N., and Culver, D.A. 2009. The Planktonic Index of Biotic Integrity (P-IBI): a new technique for assessing lake ecosystem health. *Ecological Indicators* 9: 1234-1247. (4.229, 54)

Conroy, J.D., **Kane, D.D.**, and Culver, D.A. 2008. Declining Lake Erie ecosystem health? Evidence from a multi-year, lake-wide, plankton study. Pp. 369-408. In: M. Munawar and R. Heath (eds.), *Checking the Pulse of Lake Erie*. Ecovision World Monograph Series.

Kane, D.D., Gordon, S.I., Munawar, M., Charlton, M.N., and Culver, D.A. 2008. A Planktonic Index of Biotic Integrity (P-IBI) for Lake Erie: a new technique for checking the pulse of Lake Erie. Pp. 347-367. In: M. Munawar and R. Heath (eds.), *Checking the Pulse of Lake Erie*. Ecovision World Monograph Series.

Conroy, J.D., Quinlan, E.L., **Kane, D.D.**, and Culver, D.A. 2007. *Cylindrospermopsis* in Lake Erie: testing its association with other cyanobacterial genera and limnological parameters. *Journal of Great Lakes Research*. *Journal of Great Lakes Research* 33: 519-533. (1.933, 36)

Conroy, J.D., **Kane, D.D.**, Dolan, D.M., Edwards, W.J., Charlton, M.N., and Culver, D.A. 2005. Temporal trends in Lake Erie plankton biomass: roles of external phosphorus loading and dreissenid mussels. *Journal of Great Lakes Research* 31 (Supplement 2): 89-110. (1.933, 109)

Conroy, J.D., Edwards, W.J., Pontius, R.A., **Kane, D.D.**, Zhang, H., Shea, J.F., Richey, J.N., and Culver, D.A. 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. **(3.404, 103)**

Kane, D.D., Gannon, J.E., and Culver, D.A. 2004. The status of *Limnocalanus macrurus* (Copepoda: Calanoida: Centropagidae) in Lake Erie. *Journal of Great Lakes Research* 30(1): 22-30. **(1.933, 16)**

Kane, D.D., Haas, E.M., and Culver, D.A. 2003. The characteristics and potential ecological effects of the exotic crustacean zooplankter *Cercopagis pengoi* (Cladocera: Cercopagidae), a recent invader of Lake Erie. *Ohio Journal of Science* 103(4): 79-83. COVER ARTICLE. **(0.114 (2009), 4)**

Therriault, T.W., Grigorovich, I.A., **Kane, D.D.**, Haas, E.M., Culver, D.A., and MacIsaac, H.J. 2002. Range expansion of the exotic zooplankter *Cercopagis pengoi* (Ostroumov) into western Lake Erie and Muskegon Lake. *Journal of Great Lakes Research* 28(4): 698-701. **(1.933, 22)**

Kane, D.D. 2002. Science in the art of the Italian Renaissance I: Ghiberti's *Gates of Paradise*-linear perspective and space. *Ohio Journal of Science* 102(5): 110-112. **(0.114 (2009), 0)**

Kane, D.D. 2002. Science in the art of the Italian Renaissance II: Leonardo DaVinci's representations of animals in his works. *Ohio Journal of Science* 102(5): 113-115. **(0.114 (2009), 0)**

Introductory Article for Special Section of Journal

Pennuto, C.M., Dayton, L., **Kane, D.D.**, and Bridgeman, T.B. 2014. 2014. Lake Erie nutrients: From watersheds to open water. *Journal of Great Lakes Research* 40: 469-472. doi: 10.1016/j.jglr.2014.07.002. **(1.933, 4)**

In Memoriam

Kane, D.D. 2017. In Memoriam- Thomas Paul Simon. *Fisheries* 42: 176. **(2.701, 0)**

Manuscripts in Preparation for Submission in 2022

Yanos, C.L., Qian, S.S., Rogers, M.W., **Kane, D.D.**, and Mayer, C.M. 2022. Classification and regression trees elicit fish community structure in Lake Erie. 19 manuscript pp. **In Revision.**

Peer-Reviewed/ Published Abstracts and Erratum

Kane, D., and Bridgeman, T. 2020. Comparison of 2 methods for rapid bioassessment of cyanobacterial Harmful Algal Blooms in Lake Erie's western basin. Ohio Journal of Science 120(1): A-5. MEETING ABSTRACT.

Laiveling, A., **Kane, D.D.**, Kieley, C., and Chaffin, J.D. 2020. Investigating the environmental drivers of phytoplankton community composition in the Maumee River. Ohio Journal of Science 120(1): A-5. MEETING ABSTRACT.

Johnson, A.J., **Kane, D.D.**, and Chaffin, J.D. 2018. Depth distribution of phytoplankton in western Lake Erie: correlations between buoy and fluoroprobe-derived data. Ohio Journal of Science 118(1): A-38. MEETING ABSTRACT.

Kane, D.D., Bridgeman, T.B., McKay, R.M.L., and Davis, T.W. 2018. Maumee River potamoplankton: cyanobacteria and their toxicity. Ohio Journal of Science 118(1): A-10. MEETING ABSTRACT.

Chaffin, J.D., and **Kane, D.D.** 2017. Accuracy of data buoys for monitoring Harmful Algal Blooms in Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Cincinnati, Ohio. Ohio Journal of Science 117(1): A-5. MEETING ABSTRACT.

Kane, D.D., and Gurule, R. 2016. Mammals and birds attracted to pig (*Sus scrofa*) carrion at Thoreau Wildlife Sanctuary (Defiance County, OH). Ohio Journal of Science 116(1): A-10. MEETING ABSTRACT.

Kane, D.D., Moore, K.M., and Chaffin, J.D. 2016. Effectiveness of data buoys for sampling cyanobacterial harmful algal blooms in Lake Erie. Ohio Journal of Science 116(1): A-8. MEETING ABSTRACT.

Atkinson, T.L., and **Kane, D.D.** 2015. Dissolved oxygen dynamics in Lake Erie's Sandusky Subbasin: a ten-year analysis. Ohio Journal of Science 115(1): A-46. MEETING ABSTRACT.

Pomari, J., **Kane, D.D.**, Ferreira, R.A.R., and Nogueira, M.G. 2015. Using ecological indicators to assess ecosystem health in tropical reservoirs in Brazil. Journal of Environmental Indicators 9:60-61. MEETING ABSTRACT.

Rifenburgh, A.M., **Kane, D.D.**, and Singer, S. 2015. Water quality monitoring on the Upper Maumee River. Ohio Journal of Science 115(1): A-5 and A-46. MEETING ABSTRACT.

Stierwalt, K.E., **Kane, D.D.**, and Chaffin, J.D. 2015. Nutrient limitation in the Central Basin of Lake Erie. Ohio Journal of Science 115(1): A-5 and A-46. MEETING ABSTRACT.

Miller, K.M., **Kane, D.D.**, and Chaffin, J.D. 2014. Nutrient dynamics in Lake Erie during Harmful Algal Bloom initiation. Ohio Journal of Science 114(1): A-7. MEETING ABSTRACT.

Perello, M.M., **Kane, D.D.**, Hughes, M.C. and Golnick, P. 2013. Effects of local weather variation on water-column stratification and hypoxia in the western, central, and Sandusky basins of Lake Erie. Ohio Journal of Science 113(1): A-10. MEETING ABSTRACT

Hughes, M.C., Golnick, P., and **Kane, D.D.** 2012. Dissolved oxygen in Lake Erie: temporal, spatial, and weather influenced trends in the central basin, Sandusky subbasin, and western basin. Ohio Journal of Science 112(1): A-9. MEETING ABSTRACT

Kane, D.D., Conroy, J.D., Richards, R. P., Baker, D.B., and Culver, D.A. 2012. Continued decline in Lake Erie water quality: increasing cyanobacterial biomasses over time (1996-2010). Ohio Journal of Science 112(1): A-10. MEETING ABSTRACT

Golnick, P., and **Kane, D.D.** 2011. Comparing dissolved oxygen dynamics in the western basin, Sandusky subbasin, and central basin of Lake Erie. Ohio Journal of Science 111(1): A-5. MEETING ABSTRACT

Kane, D.D., Gordon, D., Kohls, A., Lakes, R., Coburn-Griffis, A., and Vargo, R. 2011. Declining Maumee River water quality: evidence from longterm biomonitoring of benthic macroinvertebrates. Ohio Journal of Science 111(1): A-5. MEETING ABSTRACT

Conroy, J.D., Bade, D.L., Edwards, W.J., **Kane, D.D.**, Gover, T.R., Hershey, K.M., and Culver, D.A. 2010. Determining *Microcystis* bloom trigger points in the Maumee and Sandusky Ecosystems. Ohio Journal of Science 110(1): A-7. MEETING ABSTRACT

Elking, B.A., **Kane, D.D.**, and Conroy, J.D. 2010. Lake Erie hypoxia” comparison of oxygen dynamics in the western basin with the Sandusky subbasin. Ohio Journal of Science 110(1): A-9. MEETING ABSTRACT

Kane, D.D., Conroy, J.D., Chaffin, J.D., and Bridgeman, T.B. 2010. Lake Erie source tracking of harmful algal blooms. Ohio Journal of Science 110(1): A-8. MEETING ABSTRACT

Kirkpatrick, H.R., Clevinger, C.C. Moitra, M., Bade, D.L., Conroy, J.D., Culver, D.A., Edwards, W.J., and **Kane, D.D.** 2010. Evaluating phosphorus limitation from the Maumee and Sandusky Rivers into Lake Erie. Ohio Journal of Science 110(1): A-7. MEETING ABSTRACT

Primer, S.B., and **Kane D.D.** 2010. Evidence for the presence of the Emerald Ash Borer (*Agilus planipennis*) on the forest community of the Lake Erie islands III: North Bass Island. Ohio Journal of Science 110(1): A-12. MEETING ABSTRACT

Kane, D.D., Miller, A.C., and Rose, S.J. 2009. Effects of the emerald ash borer (*Agilus planipennis*) on the forest community of the Lake Erie Islands II: South Bass and Gibraltar Islands. Ohio Journal of Science 109(1): A-7. MEETING ABSTRACT

Viterna, J.L., **Kane, D.D.**, and Conroy, J.D. 2009. Diel variation in dissolved oxygen in the Sandusky subbasin of Lake Erie. Ohio Journal of Science 109(1): A-5. MEETING ABSTRACT

Conroy, J.D. Dubelko, G.L., Lehman, S.B., **Kane, D.D.**, and Culver, D.A. 2008. The importance of light penetration and chlorophyll concentration on metalimnetic oxygen maxima (MOM) development in Lake Erie. Ohio Journal of Science 108(1): A-9. MEETING ABSTRACT

Eckardt, M.A., and **Kane, D.D.** 2008. Potential changes in the forest community structure of the Lake Erie islands due to the invasion of the Emerald Ash Borer (*Agrilus planipennis*). Ohio Journal of Science 108(1): A-10. MEETING ABSTRACT

Kane, D.D., Conroy, J.D., Richards, R.P., Baker, D.B., and Culver, D.A. 2008. Declining water quality in western Lake Erie: correlations between soluble reactive phosphorus (SRP) loading and phytoplankton biomass. Ohio Journal of Science 108(1): A-8. MEETING ABSTRACT

Chaffin, J.D., and **Kane, D.D.** 2007. Burrowing mayfly (*Hexagenia* spp.) bioturbation and bioirrigation: a neglected source of internal phosphorus loading in Lake Erie. Ohio Journal of Science 107(1): A-27. MEETING ABSTRACT

Kane, D.D., Sizemore, J.A., Nguyen, H.T., Reider, K.E., and Culver, D.A. 2007. The Volumetric Index of the Plankton (VIP): a rapid method to monitor plankton. Ohio Journal of Science 107(1): A-27. MEETING ABSTRACT

Marasco, M.C., Conroy, J.D., **Kane, D.D.**, Hitchcock, L.E., and Culver, D.A. 2007. Does tributary-derived phytoplankton biomass influence hypolimnetic hypoxia in the Sandusky Subbasin of Lake Erie? Ohio Journal of Science 107(1): A-27. MEETING ABSTRACT

Kane, D.D., Kilbane, G.M., Porter, J.A., and Culver, D.A. 2006. *Hexagenia* mayfly nymph bioturbation and its potential effects on internal nutrient loading in Lake Erie. Ohio Journal of Science 106(1): A-50. MEETING ABSTRACT

Nguyen, H., and **Kane, D.D.** 2006. Evidence for diel horizontal migration (DHM) of crustacean zooplankton in the western basin of Lake Erie. Ohio Journal of Science 106(1): A-50. MEETING ABSTRACT

Baers, R.C., Hoggarth, M.A., and **Kane, D.D.** 2005. A comparison of the impact of zebra mussels (*Dreissena polymorpha*) on two central Ohio streams. Ohio Journal of Science 105(1): A-15. MEETING ABSTRACT

Kane, D.D., Gannon, J.E., Jude, D.J., and Culver, D.A. 2005. Diel variation in the horizontal distribution of crustacean zooplankton in the western basin of Lake Erie. The Ohio Journal of Science 105(1): A-32. MEETING ABSTRACT

Kane, D.D., Phipps, T.L., and Culver, D.A. 2005. *Daphnia retrocurva* size at maturity in the western basin of Lake Erie: a comparison before and after the invasion of *Dreissena* spp. The Ohio Journal of Science 105(1): A-32. MEETING ABSTRACT

Kane, D.D., Gannon, J.E., and Culver, D.A. 2004. The status of *Limnocalanus macrurus* (Copepoda: Calanoida: Centropagidae) in Lake Erie. *Journal of Great Lakes Research* 30(2): 344-345. ERRATUM

Professional Presentations

Invited

Kane, D.D. 2018. A Decade in Defiance: the Re-Eutrophication and Restoration of Lake Erie. Paper presented at the McMaster Symposium, Defiance, OH.

Kane, D.D. 2017. From Lake to River: Using Plankton to Assess Water Quality in Lake Erie and Its Tributaries. Paper presented at University of Toledo's Lake Erie Center, Oregon, OH.

Chaffin, J.D., and **Kane, D.D.** 2017. Accuracy of data buoys for tracking cyanobacterial blooms in Lake Erie. Paper presented at the 8th Lake Erie Millennium Network meeting at University of Windsor, Windsor, Ontario, Canada.

Chaffin, J., **Kane, D.**, and Bade, D. 2017. An investigation of central basin Harmful Algal Blooms. Paper presented at Ohio Department of Higher Education Algae Meeting. Bowling Green State University- Firelands College, Huron, Ohio.

Kane, D.D., Chaffin, J.D., Conroy, J.D., and Culver, D.A. 2017. The re-eutrophication of Lake Erie: degradation, adaptation, and restoration. Paper presented at São Paulo State University (UNESP)- Botucatu, Brazil.

Kane, D.D. 2016. Lake Erie Hypoxia. Paper presented at the 2016 Ohio Department of Health Annual Midwest Workshop in Environmental Health, Columbus, Ohio.

Kane, D.D., Chaffin, J.D., Conroy, J.D., and Culver, D.A. 2016. Lake Erie's re-eutrophication: degradation, adaptation, and restoration. Paper presented at the 2016 Phycological Society of America meeting, University Heights, Ohio.

Kane, D.D. 2013. Algae Propagation in Lake Erie and its Watershed: Consequences and Control. Paper presented at the 2013 Keystone Power Conference, Pittsburgh, Pennsylvania.

Kane, D.D. 2013. Algae: a potential threat to water resources in Ohio? Paper presented at the Operator Training Committee of Ohio (OTCO) workshop, Mt. Sterling, Ohio.

Kane, D.D. 2012. Algae and microbial propagation and control in water systems or turning a problem into a solution. Paper presented at the 2012 Keystone Power Conference, Pittsburgh, Pennsylvania.

Bridgeman, T.B., Gruden, C.L., Conroy, J.D., **Kane, D.D.**, Winston, G.W., Chaffin, J.D., Panek, S.E., and Mayer, C.M. 2011. Lake Erie Algal Source Tracking (LEAST). Paper presented at the Lake Erie Phosphorus Research Forum, University of Toledo, Lake Erie Center.

Culver, D.A., Conroy, J.D., Bade, D.L., Edwards, W.J., **Kane, D.D.**, Takahashi, M., and Graham, J. 2011. Connecting P load, transport, and biological use in Lake Erie: How does *Microcystis* use P and where is the bloom trigger point? Paper presented at the Lake Erie Phosphorus Research Forum, University of Toledo, Lake Erie Center.

Kane, D.D. 2011. Lake Erie re-eutrophication: multiple tributary contributions. Paper presented at the Ohio State University, Columbus, Ohio.

Kane, D.D. 2011. Harmful Algal Blooms: from watershed to walleye, why fishermen should care. Ohio Charter Captains Conference, Huron, Ohio.

Kane, D.D., Conroy, J.D., Bade, D. L., and Culver, D.A. 2011. Re-eutrophication of Lake Erie: multiple contributions by two agricultural tributaries. Paper presented at the 2011 Conference on Great Lakes Research, Duluth, Minnesota.

Bridgeman, T.B., Conroy, J.D., Gruden, C.L., **Kane, D.D.**, Kramer, J.W., Mayer, C.M, and Winston, G.W. 2010. Lake Erie Algal Source Tracking 2009 (LEAST). Paper presented at Sixth Biennial Lake Erie Millennium Network Conference, Windsor, Ontario.

Bridgeman, T.B., Conroy, J.D. Gruden, C.L., **Kane, D.D.**, Kramer, J.W., Mayer, C.M, and Winston, G.W. 2010. Lake Erie Algal Source Tracking (LEAST). Paper presented at the Lake Erie Phosphorus Research Forum, University of Toledo, Lake Erie Center.

Culver, D.A., Conroy, J.D., Bade, D.L., Edwards, W.J., and **Kane, D.D.** 2010. Connecting P load, transport, and biological use in Lake Erie: How does *Microcystis* use P and where is the bloom trigger point? Paper presented at the Lake Erie Phosphorus Research Forum, University of Toledo, Lake Erie Center.

Kane, D.D. 2010. Lake Erie re-eutrophication: evidence from the Maumee and Sandusky systems. Paper presented at the Franz Theodore Stone Laboratory, Put-In-Bay, Ohio.

Kane, D.D., Conroy, J.D., Bade, D.L., Edwards, W.J., Culver, D.A., Chaffin, J.D., Wambo, K., Gruden, C.L., and Bridgeman, T.B. 2010. Monitoring mechanisms and macronutrients: *Microcystis* in the Maumee and Sandusky systems. Paper presented at Sixth Biennial Lake Erie Millennium Network Conference, Windsor, Ontario.

Kane, D.D., Conroy, J. D., Richards, R.P., Baker, D.B., and Culver, D.A. 2009. Western Lake Erie Nuisance Algae: Correlations between Nutrient Load and Total Phytoplankton and Cyanobacterial Biomass. Paper presented at the 2009 Conference on Great Lakes Research, Toledo, Ohio.

Kane, D.D., and Mavroidis, S. 2009. Restoration Ecology and Defiance College's Thoreau Wildlife Sanctuary: ecological restoration as part of the undergraduate collegiate curriculum. Paper presented at the Society for Ecological Restoration International- Midwest-Great Lakes Chapter Conference, Indianapolis, Indiana.

Kane, D.D., Mavroidis, S., and Carlisle, K. 2009. Involving undergraduate students in Great Lakes stewardship: water quality monitoring in the Western Lake Erie Basin workshop- past, present, and future. Paper presented at the Meeting the Challenges of Great Lakes Stewardship: SENCER Approaches Conference, Cleveland, Ohio.

Kane, D.D., Mavroidis, S., and Reed, D. 2008. Integrating habitat restoration into collegiate curricula: restoration ecology and Defiance College's Thoreau Wildlife Sanctuary. Paper presented at the 2008 Ohio Fish and Wildlife Conference, Columbus, Ohio.

Kane, D.D., Conroy, J.D., Culver, D.A., Richards, R.P., and Baker, D.B. 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.

Kane, D.D., and Culver, D.A. 2007. Assessing the State of the Strait using plankton communities: Planktonic Index of Biotic Integrity (P-IBI) trends in western Lake Erie. Paper presented at the 2007 Conference on Great Lakes Research, University Park, Pennsylvania.

Kane, D.D., and Chaffin, J.D. 2007. A neglected source of Lake Erie internal phosphorus loading: the impact of *Hexagenia* bioturbation and bioirrigation. Paper presented at the 2007 Conference on Great Lakes Research, University Park, Pennsylvania.

Kane, D.D. 2006. From the Lake Erie ecosystem to the biosphere: what plankton can tell us about our environment. Paper presented at the Franz Theodore Stone Laboratory, Put-In-Bay, Ohio.

Conroy, J.D., **Kane, D.D.**, Quinlan, E.L., and Culver D.A. 2006. Seeing is believing-synergy amongst Lake Erie plankton and nutrients, exotic species, and climate change. Paper presented at Fourth Biennial Lake Erie Millennium Network Conference, Windsor, Ontario.

Kane, D.D. 2006. What can plankton communities tell us about the Lake Erie ecosystem? Paper presented at Otterbein College, Westerville, Ohio.

Kane, D.D. 2006. A planktonic index of biotic integrity (P-IBI) for Lake Erie: a new method for assessing Great Lakes ecosystem health. Paper presented at Canisius College, Buffalo, New York.

Kane, D. D. 2006. A planktonic index of biotic integrity (P-IBI) for Lake Erie: a new method for assessing Great Lakes ecosystem health. Paper presented at SUNY Fredonia, Fredonia, New York.

Kane, D.D. 2005. A planktonic index of biotic integrity (P-IBI) for Lake Erie: a new method for assessing Great Lakes ecosystem health. Paper presented at Oberlin College, Oberlin, Ohio.

Kane, D.D. 2005. A planktonic index of biotic integrity (P-IBI) for Lake Erie: a new method for assessing Great Lakes ecosystem health. Paper presented at DePauw University, Greencastle,

Indiana.

Kane, D. D. 2004. The Planktonic Index of Biotic Integrity: a new method for assessing the health of Lake Erie's open waters. Paper presented at the Environmental Sciences Graduate Program Current Research in Environmental Sciences Seminar Series, The Ohio State University, Columbus, Ohio.

Kane, D. D. and Culver, D.A. 2001. The use of plankton to measure the biotic integrity of Lake Erie. Paper presented at the Franz Theodore Stone Laboratory, Put-In-Bay, Ohio.

Contributed

Spence, K., Adkins, J., **Kane, D.**, Johnson, L. 2021. Effect of sample holding time on Fluoroprobe-assessed biomass and community composition of Sandusky River potamoplankton. Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program. **Second Place (Tie)- Best Student Poster.**

Spence, K., Adkins, J., **Kane, D.**, Johnson, L. 2021. Spatial and temporal distribution of potamoplankton in the Sandusky River during the summer of 2021. Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program.

Kane, D., Manning, N., and Johnson, L. 2021. When it snows it pours (or what I did during my summer pandemic). Paper presented Virtually at Heidelberg University Faculty Research Symposium, Tiffin, Ohio.

Kane, D.D., Manning, N., Razzano, M., and Johnson, L.T. 2021. When it snows it pours: recent increases in chloride in Lake Erie tributaries with a focus on the Cuyahoga River. Paper Presented Virtually at the 2021 Conference on Great Lakes Research, Houghton, Michigan.

Kane, D., Manning, N., and Johnson, L. 2020. Pouring salt into the waters: recent increases in chloride in Lake Erie tributaries. Paper Presented Virtually at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program.

Kane, D.D., Kieley, C. Nauman, C., Davis, T. and Chaffin, J.D. 2019. Linking the land and the lake: Maumee River nutrients, cyanobacteria, and toxins. Paper Presented at the 2019 Conference on Great Lakes Research, Brockport, New York.

Kieley, C.M., **Kane, D.D.**, and Chaffin, J.D. 2019. Planktonic algal community composition of the Maumee River: environmental factors and their relation to toxin-producing cyanobacteria. Paper presented at the University of New England College of Arts and Sciences 20th Annual Spring Research Symposium, Biddeford, Maine.

Matson, P.G., Bullerjahn, G.S., McKay R.M.L, Bridgeman, T.B., Boyer, G.L., Raymond, H.A., **Kane, D.D.**, and Davis, T.W. 2019. Elucidating cyanotoxins, cyanobacteria, and potential abiotic drivers of the 2017 Maumee River bloom. Paper Presented at the 2019 Conference on Great Lakes Research, Brockport, New York.

Johnson, A.J., **Kane, D.D.**, and Chaffin, J.D. 2018. Depth distribution of phytoplankton in western Lake Erie: correlations between buoy and fluoroprobe-derived data. Paper presented at the Ohio Academy of Science Meeting, Bowling Green, Ohio.

Kane, D.D., Bridgeman, T.B., McKay, R.M.L., Davis, T.W., Bullerjahn, G.S., Boyer, G.L., Cody, W., and Matson, P.G. 2018. Toxic Toledo and Maumee *Microcystis*: was the unprecedented cHAB in 2017 lake or river derived? Paper presented at the International Symposium of the North American Lake Management Society, Cincinnati, Ohio.

Kane, D.D., Bridgeman, T.B., McKay, R.M.L., and Davis, T.W. 2018. Maumee River potamoplankton: cyanobacteria and their toxicity. Paper presented at the Ohio Academy of Science Meeting, Bowling Green, Ohio.

Manoukian, C., Kutschbach-Brohl, L., and **Kane, D.** 2018. Changes in forest composition in lowland island forests after the Emerald Ash Borer. Paper presented at the Ohio Academy of Science Meeting, Bowling Green, Ohio.

Kane, D.D., Chaffin, J.D., Bridgeman, T.B., and McKay, R.M.L. 2017. OH BUOY! (Fluoro)probing cHABS in Western Lake Erie and the Maumee River Using in-situ and In-vivo Technology. Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio.

Chaffin, J.D., and **Kane D.D.** 2017. Accuracy of data buoys for monitoring Harmful Algal Blooms in Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Cincinnati, Ohio.

Chaffin, J.D., Bade, D.L., and **Kane, D.D.** 2017. Cyanobacterial blooms in Lake Erie's central basin. Paper Presented at the 2017 Conference on Great Lakes Research, Detroit, Michigan.

Kane, D.D., and Chaffin, J.D. 2017. YEAH BUOY?!? Monitoring cHABS in western Lake Erie using in-situ technology. Paper Presented at the 2017 Conference on Great Lakes Research, Detroit, Michigan.

Lenhart, C.L., **Kane, D.**, and Gordon, B. 2017. Tradeoffs between water storage, nutrient removal and plant community diversity in restored wetlands within agricultural watersheds. Paper presented at the Society for Ecological Restoration International- Midwest-Great Lakes Chapter Conference, Grand Rapids, Michigan.

Rifenburgh, A.M., **Kane, D.D.**, and Singer, S. 2017. Water quality of the Upper Maumee River: a two year assessment. Paper Presented at the 2017 Conference on Great Lakes Research, Detroit, Michigan.

Kane, D.D., and Gurule, R. 2016. Mammals and birds attracted to pig (*Sus scrofa*) carrion at Thoreau Wildlife Sanctuary (Defiance County, OH). Paper presented at the Ohio Academy of Science Meeting, Athens, Ohio.

Kane, D.D., Haydett, K., Homan, M., Lazarus, C., McMonigal, M., Menyhart, A., Ploughe, W., and Stoepfel, S. 2016. Water quality issues: local to global. Paper presented at the McMaster Symposium, Defiance, Ohio.

Kane, D.D., and Chaffin, J.D. 2016. Accuracy of data buoys for monitoring cyanobacterial blooms in Lake Erie. Paper Presented at the 2016 Conference on Great Lakes Research, Guelph, Ontario.

Kane, D.D., and Chaffin, J.D. 2016. Let's Hear It for the Buoys?- Accuracy of data buoys for monitoring cyanobacterial blooms in Lake Erie. Paper Presented as part of Great Lakes HABS Collaboratory Webinar Series- HABS Data & Modeling. <http://glc.org/projects/water-quality/habs/habs-events/>

Kane, D.D., Moore, K.M., and Chaffin, J.D. 2016. Effectiveness of data buoys for sampling cyanobacterial harmful algal blooms in Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Athens, Ohio.

Lenhart, C., **Kane, D.**, McMonigal, S., and Lenhart, P. 2016. Nutrient removal by constructed and restored wetlands in the Maumee River watershed of Northwest Ohio. Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio.

Yanos, C.L., Qian, S.S., Mayer, C.M., Rogers, M.W., and **Kane, D.D.** 2016. Effects of productivity gradients on fish-community structure in Lake Erie. Paper presented at the American Fisheries Society Meeting, Kansas City, Missouri.

Yanos, C.L., Qian, S.S., Mayer, C.M., Rogers, M.W., and **Kane, D.D.** 2016. Drivers of fish-community structure in Lake Erie. Paper presented at 7th Annual Midwest Graduate Research Symposium, Toledo, Ohio. (last two co-authors not included in program)

Yanos, C.L., Qian, S.S., Mayer, C.M., Rogers, M.W., and **Kane, D.D.** 2016. Evaluating importance of nutrient and productivity gradients on Lake Erie fish-community structure. Paper Presented at the 2016 Conference on Great Lakes Research, Guelph, Ontario.

Atkinson, T.L., and **Kane, D.D.** 2015. Dissolved oxygen dynamics in Lake Erie's Sandusky Subbasin: a ten-year analysis. Paper presented at the Ohio Academy of Science Meeting, Bexley, Ohio.

Kane, D.D., 2015. 15 years of watershed events: tributary effects on the re-eutrophication of Lake Erie. Poster presented at Global Solutions to Regional Problems: Collecting Global Expertise to Address the Problem of Harmful Algal Blooms- NSF/ NOAA Sponsored Workshop at Bowling Green State University, Bowling Green, Ohio.

Kane, D.D., Ludsin, S.A., Briland, R.D., Culver, D.A., Fitzpatrick, M., Rozon, R., Niblock, H., and Munawar, M. 2015. Ten Years Gone: continued degradation of plankton communities in lakes Erie and Ontario. Paper Presented at the 2015 Conference on Great Lakes Research, Burlington, Vermont.

Pomari, J., **Kane, D.D.**, Ferreira, R.A.R., and Nogueira, M.G. 2015. Using ecological indicators to assess ecosystem health in tropical reservoirs in Brazil. Paper Presented at the 2015 International Conference on Environmental Indicators, Windsor, Ontario.

Rifenburgh, A.M., **Kane, D.D.**, and Singer, S. 2015. Water quality monitoring on the Upper Maumee River. Paper presented at the Ohio Academy of Science Meeting, Bexley, Ohio.

Stierwalt, K.E., **Kane, D.D.**, and Chaffin, J.D. 2015. Nutrient limitation in the Central Basin of Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Bexley, Ohio.

Lenhart, C., **Kane, D.** Lenhart, P., Dangler, A., Rifenburgh, A., Gurule, R., Stoepfel, S., and Parrett, T. 2015. Ecological restoration, research and education on farmland in the former Great Black Swamp of Ohio. Paper presented at the Society for Ecological Restoration International-Midwest-Great Lakes Chapter Conference, Chicago, Illinois.

Chaffin, J.D., and **Kane, D.D.** 2014. Excess nitrogen stimulates cyanobacteria growth and toxin production. Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program.

Rifenburgh, A., **Kane, D.D.**, and S. Singer. 2014. Water Quality Monitoring on the Upper Maumee River. Lake Erie Binational Public Forum Conference, Oregon, OH.

Rifenburgh, A., **Kane, D.D.**, and S. Singer. 2014. Water Quality Monitoring on the Upper Maumee River. National Center for Science and Civic Engagement 2014 Washington Symposium, Washington D.C.

Conroy, J.D., **Kane, D.D.**, Briland, R.D., and Culver, D.A. 2014. *Microcystis* blooms and phosphorus dynamics in two of Lake Erie's agricultural tributaries (Maumee and Sandusky rivers). Paper Presented at the 2014 Conference on Great Lakes Research, Hamilton, Ontario.

Miller, K.M., **Kane, D.D.**, and Chaffin, J.D. 2014. Nutrient dynamics in Lake Erie during Harmful Algal Bloom initiation. Paper presented at the Ohio Academy of Science Meeting, North Canton, Ohio.

Kane, D.D. 2013. Thoreau Wildlife Sanctuary: Ecological Restoration in the Historic Great Black Swamp (NW Ohio). Paper presented at the 5th World Conference on Ecological Restoration, Madison, Wisconsin.

Kane, D.D., (Conroy, J.D., Richards, R.P., Baker, D.B., Thomas, M.A., Culver, D.A.) 2013. The Importance of Long-term Lake Data, Paper Presented at the Water Management Association of Ohio (WMAO)/ Ohio Lake Management Society (OLMS) Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program.

Kane, D.D., Conroy, J.D., Richards, R.P., Baker, D.B., Thomas, M.A., Culver, D.A. 2013. HABs, Hypoxia, and History: The Re-Eutrophication of Lake Erie. Paper Presented at the 2013 Conference on Great Lakes Research, West Lafayette, Indiana.

Kane, D. D., Perello, M. M., Hughes, M. C., Golnick, P., Thomas, M. A., and Conroy, J. D. 2013. Lake Erie as a sentinel for climate change: weather affects stratification and hypoxia formation. Paper presented at Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, Louisiana.

Perello, M.M., **Kane, D.D.** Hughes, M.C. and Golnick, P. 2013. Effects of local weather variation on water-column stratification and hypoxia in the western, central, and Sandusky basins of Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Findlay, Ohio.

Hughes, M.C., Golnick, P., and **Kane, D.D.** 2012. Dissolved oxygen in Lake Erie: temporal, spatial, and weather influenced trends in the central basin, Sandusky subbasin, and western basin. Paper presented at the Ohio Academy of Science Meeting, Ashland, Ohio.

Kane, D.D., (Conroy, J.D., Culver, D.A. Richards, R. P., Baker, D.B.). 2012. 15 years of watershed events: tributary effects on the re-eutrophication of Lake Erie. Paper presented at the Water Management Association of Ohio Annual Meeting, Columbus, Ohio. Note: co-authors not listed in program.

Kane, D.D., Conroy, J.D., Richards, R. P., Baker, D.B., and Culver, D.A. 2012. Continued decline in Lake Erie water quality: increasing cyanobacterial biomasses over time (1996-2010). Paper presented at the Ohio Academy of Science Meeting, Ashland, Ohio.

Kane, D.D., Conroy, J.D., and Thomas, M.A. 2012. Morphometry, meteorology, and Metalimnetic Oxygen Maxima: monitoring dissolved oxygen dynamics in the Sandusky Subbasin of Lake Erie. Paper presented at the 2012 Conference on Great Lakes Research, Cornwall, Ontario.

Golnick, P., and **Kane, D.D.** 2011. Comparing dissolved oxygen dynamics in the western basin, Sandusky subbasin, and central basin of Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Westerville, Ohio.

Kane, D.D., Coburn-Griffis, Vargo, R., Gordon, D., Kohls, A., and Lakes, R. 2011. Ohio Stream Quality Monitoring Project: volunteer monitoring and undergraduate research. Paper presented at the 2011 Conference on Great Lakes Research, Duluth, Minnesota.

Kane, D.D., Conroy, J.D., Culver, D.A., Bridgeman, T.B., Chaffin, J.D., Bade, D.L., Edwards, W.J., McKay, R.M.L., Richards, R.P., Baker, D.B., and Kramer, J.W. Re-Eutrophication of Lake Erie: Insights from the Maumee and Sandusky Systems. 2011. Paper presented at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, San Juan, Puerto Rico.

Kane, D.D., Mavroidis, S.M., Maxcy, J., Golnick, P., McKay, R.M., Griggs, N.D., and Czech, M. 2011. See the Maumee River GLISTEN! Paper presented at the 2011 Conference on Great Lakes Research, Duluth, Minnesota.

Kane, D.D., Gallagher, M., Deskins, J., Haller, L., Golnick, P., Kibler, A., and Tuttle, T. 2011. New Orleans Learning Community. Paper presented at the McMaster Symposium, Defiance, Ohio.

Kane, D.D., Gordon, D., Kohls, A., Lakes, R., Coburn-Griffis, A., and Vargo, R. 2011. Declining Maumee River water quality: evidence from longterm biomonitoring of benthic macroinvertebrates. Paper presented at the Ohio Academy of Science Meeting, Westerville, Ohio.

Kane, D.D., Maxcy, J., Mavroidis, S.M., Czech, M., McKay, R.M.L., and Griggs, N.D. 2011. Collegiate service learning using Laurentian Great Lakes tributary water quality monitoring: making the Maumee River GLISTEN. Paper presented at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, San Juan, Puerto Rico.

Kane, D.D., Mavroidis, S.M., Maxcy, J., and Czech, M. 2010. Making the Maumee River GLISTEN: undergraduate service learning through water quality monitoring at Defiance College. Association of College and University Biology Educators Annual Meeting, Sylvania, Ohio.

Bridgeman, T.B., Gruden, C.L., Conroy, J.D., **Kane, D.D.**, Winston, G.W., Chaffin, J.D., Panek, S.E., and Mayer, C.M. 2010. Lake Erie Algal Source Tracking (LEAST): contributions of the Maumee River and lake sediments to *Microcystis* blooms. Paper presented at the 2010 Conference on Great Lakes Research, Toronto, Ontario.

Conroy, J.D., Bade, D.L., Edwards, W.J., **Kane, D.D.**, Gover, T.R., Hershey, K.M., and Culver, D.A. 2010. Determining *Microcystis* bloom trigger points in the Maumee and Sandusky Ecosystems. Paper presented at the Ohio Academy of Science Meeting, Ada, Ohio.

Elking, B.A., **Kane, D.D.**, and Conroy, J.D. 2010. Lake Erie hypoxia- comparison of oxygen dynamics in the western basin with the Sandusky subbasin. Paper presented at the Ohio Academy of Science Meeting, Ada, Ohio.

Kane, D.D., Conroy, J.D., Bade, D.L., Edwards, W.J., and Culver, D.A. 2010. The problem starts earlier and farther upstream than expected: *Microcystis* upstream in Lake Erie tributaries early in the year. Paper presented at the 2010 Conference on Great Lakes Research, Toronto, Ontario.

Kane, D.D., Conroy, J.D., Chaffin, J.D., Wambo, K., Gruden, C.L., and Bridgeman, T.B. 2010. The LEAST we can do is study HABS: tracking of harmful algal blooms in the Maumee River. Paper presented at the 2010 Conference on Great Lakes Research, Toronto, Ontario.

Kane, D.D., Conroy, J.D., Chaffin, J.D., and Bridgeman, T.B. 2010. Lake Erie source tracking of harmful algal blooms. Paper presented at the Ohio Academy of Science Meeting, Ada, Ohio.

Kane, D.D., Culver, D.A., and Munawar, M. 2010. The Planktonic Index of Biotic Integrity (P-IBI): a technique for linking ecosystem-based science to management in the great lakes of the world. Paper presented at the Great Lakes of the World International Symposium VI, Incline Village, Nevada.

Kane, D.D., Mavroidis, S.M., Maxcy, J., and Czech, M. 2010. Making the Maumee River GLISTEN: undergraduate service learning through water quality monitoring at Defiance College. Paper presented at the Association of College and University Biology Educators Annual Meeting, Sylvania, Ohio.

Kane, D.D., Tabit, M.M., Dalke, D.E., Burden, S.R., Carlisle, K.M., Creighton, J.L., Gordon, B.K., Zimmerman, A.A., Moreau, R.J., Greene, M.C., Stouder, F.M., Reno, H.H., Maygarden, D.F., Egger, H.L., and Schieble, C.S. 2010. Collegiate service learning using large lake restoration. Paper presented at the 2010 Conference on Great Lakes Research, Toronto, Ontario.

Kirkpatrick, H.R., Clevinger, C.C. **Moitra, M.**, **Bade, D.L.**, **Conroy, J.D.**, **Culver, D.A.**, **Edwards, W.J.**, and **Kane, D.D.** 2010. Evaluating phosphorus limitation from the Maumee and Sandusky Rivers into Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Ada, Ohio.

Munawar, M., **Fitzpatrick, M.**, **Kane, D.**, **Munawar, I.F.**, **Niblock, H.**, and **Lorimer, J.** 2010. Application of ecological indicators as a tool for assessing Beneficial Use Impairments towards delisting of the Great Lakes Areas of Concern: Bay of Quinte example. Paper presented at the 2010 Conference on Great Lakes Research, Toronto, Ontario.

Primer, S.B., and **Kane D.D.** 2010. Evidence for the presence of the Emerald Ash Borer (*Agrilus plannipennis*) on the forest community of the Lake Erie islands III: North Bass Island. Paper presented at the Ohio Academy of Science Meeting, Ada, Ohio.

Tabit, M., **Kane D.**, **Golden, S.**, **Billings, J.**, **Derov, L.**, **Gates, B.**, **Gordon, B.**, and **Demland, A.** 2010. New Orleans Learning Community. Paper presented at the McMaster Symposium, Defiance, OH.

Kane, D., **Mavroidis, S.**, and **Carlisle, K.** 2009. Maumee River Watershed Water Quality: A Challenge to Sustainable Development in Our Backyard. Paper presented at the McMaster Symposium, Defiance, OH.

Kane, D.D., Miller, A.C., and Rose, S.J. 2009. Effects of the emerald ash borer (*Agrilus planipennis*) on the forest community of the Lake Erie Islands II: South Bass and Gibraltar Islands. Paper presented at the Ohio Academy of Science Meeting, Springfield, Ohio.

Viterna, J.L., **Kane, D.D.**, and Conroy, J.D. 2009. Diel variation in dissolved oxygen in the Sandusky subbasin of Lake Erie. Paper presented at the Ohio Academy of Science Meeting, Springfield, Ohio.

Kane, D.D., Mavroidis, S., and Carlisle, K. 2009. Involving undergraduate students in Great Lakes stewardship: water quality monitoring in the Western Lake Erie Basin. Paper presented at the Meeting the Challenges of Great Lakes Stewardship: SENCER Approaches Conference, Cleveland, Ohio.

Tabit, M., **Kane D.**, **Brooke, K.**, **Burden, S.**, **Carlisle, K.**, **Creighton, J.**, **Delarber, B.**, and **Zimmerman, A.** 2009. New Orleans Learning Community. Paper presented at the McMaster Symposium, Defiance, OH.

Conroy, J.D., Dubelko, G.L., Lehman, S.B., **Kane, D.D.**, and Culver, D.A. 2008. The importance of light penetration and chlorophyll concentration on metalimnetic oxygen maxima (MOM) development in Lake Erie. Ohio Academy of Science Meeting, Toledo, Ohio.

Eckardt, M.A., and **Kane, D.D.** 2008. Potential changes in the forest community structure of the Lake Erie islands due to the invasion of the Emerald Ash Borer (*Agrilus planipennis*). Ohio Academy of Science Meeting, Toledo, Ohio.

Kane, D.D., Conroy, J.D., Richards, R.P., Baker, D.B., and Culver, D.A. 2008. Declining water quality in western Lake Erie: correlations between soluble reactive phosphorus (SRP) loading and phytoplankton biomass. Ohio Academy of Science Meeting, Toledo, Ohio.

Kane, D.D., Mavroidis, S., and Reed, D. 2008. Integrating habitat restoration into collegiate curricula: restoration ecology and Defiance College's Thoreau Wildlife Sanctuary. Paper presented at the 2008 Ohio Fish and Wildlife Conference, Columbus, Ohio.

Chaffin, J.D., and **Kane, D.D.** 2007. Burrowing mayfly (*Hexagenia* spp.) bioturbation and bioirrigation: a neglected source of internal phosphorus loading in Lake Erie. Paper presented at the 2007 Ohio Academy of Science Meeting, Highland Hills, Ohio.

Kane, D.D., Sizemore, J.A., Nguyen, H.T., Reider, K.E., and Culver D.A. 2007. The Volumetric Index of the Plankton (VIP): a rapid method to monitor plankton. Paper presented at the 2007 Ohio Academy of Science Meeting, Highland Hills, Ohio.

Marasco, M.C., Conroy, J.D., **Kane, D.D.**, Hitchcock, L.E., and Culver, D.A. 2007. Does tributary-derived phytoplankton biomass influence hypolimnetic hypoxia in the Sandusky Subbasin of Lake Erie? Paper presented at the 2007 Ohio Academy of Science Meeting, Highland Hills, Ohio.

Conroy, J.D., Quinlan, E.L., Thomas, M.A., **Kane, D.D.**, Edwards, W.J., and Culver, D.A. 2006. Sandusky Subbasin (Lake Erie) hypoxia- causes, development, and consequences. Paper presented at the 2006 Conference on Great Lakes Research, Windsor, Ontario.

Kane, D.D., Conroy, J.D., Quinlan E.L., Edwards, W.J., Thomas, M.A., and Culver, D.A. 2006. Cyanobacterial loading to Lake Erie: nutrient and light effects in the Sandusky System. Paper presented at the 2006 Conference on Great Lakes Research, Windsor, Ontario.

Kane, D.D., Kilbane, G.M., Porter, J.A., and Culver, D.A. 2006. *Hexagenia* mayfly nymph bioturbation and its potential effects on internal nutrient loading in Lake Erie. Paper presented at the 2006 Ohio Academy of Science Meeting, Dayton, Ohio.

Nguyen, H., and **Kane D.D.** 2006. Evidence for Diel Horizontal Migration (DHM) of crustacean zooplankton in the western basin of Lake Erie. Paper presented at the 2006 Ohio Academy of Science Meeting, Dayton, Ohio.

Quinlan, E.L., Conroy, J. D., **Kane, D.D.**, and Culver, D.A. 2006. A corridor to invasion: *Cylindrospermopsis* in Sandusky Bay (Lake Erie). Paper presented at the 2006 Conference on Great Lakes Research, Windsor, Ontario.

Simpson, K.E., **Kane, D.D.**, and Edwards, W.J. 2006. Abundance and production of *Leptodora kindtii* before and after the invasion of the predacious cladoceran, *Bythotrephes longimanus*. Paper presented at the 2006 Fall Scientific Paper Session of the Rochester Academy of Science, Rochester, New York.

Baers, R.C., Hoggarth, M.A., and **Kane, D.D.** 2005. A comparison of the impact of zebra mussels (*Dreissena polymorpha*) on two central Ohio streams. Paper presented at the 2005 Ohio Academy of Science Meeting, Bowling Green, Ohio.

Kane, D.D., Gannon, J.E., Jude, D.J., and Culver, D.A. 2005. Diel variation in the horizontal distribution of crustacean zooplankton in the western basin of Lake Erie. Paper presented at the 2005 Ohio Academy of Science Meeting, Bowling Green, Ohio.

Kane, D.D., Phipps, T.L., and Culver, D.A. 2005. *Daphnia retrocurva* size at maturity in the western basin of Lake Erie: a comparison before and after the invasion of *Dreissena* spp. Paper presented at the 2005 Ohio Academy of Science Meeting, Bowling Green, Ohio.

Edwards, W.J., Conroy, J.D., **Kane, D.D.**, Dolan, D.M., Charlton, M.N., and Culver, D.A. 2004. Recent increases in Lake Erie plankton biomass: roles of external phosphorus loading and dreissenid mussels. Paper presented at the 2004 Conference on Great Lakes Research, Waterloo, Ontario.

Conroy, J.D., Culver, D.A., Edwards, W.J., **Kane, D.D.**, Pontius, R.A., Richey, J.N., Shea, J.F., and Zhang, H. 2003. Differences in excretion by dreissenid congeners: implications for nearshore ecosystems. Paper Presented at the 2003 Conference on Great Lakes Research, Chicago, Illinois.

Conroy, J.D., Culver, D.A., Edwards, W.J., **Kane, D.D.**, Pontius, R.A., Richey, J.N., Shea, J.F., and Zhang, H. 2003. Differences in excretion by dreissenid congeners: implications for the Lake Erie ecosystem. Paper presented at the 2003 Midwest Evolution and Ecology Conference, Akron, Ohio.

Culver, D.A., Conroy, J.D., Edwards, W.J., **Kane, D.D.**, Pontius, R.A., Richey, J.N., Shea, J.F., and Zhang, H. 2003. Do dreissenid mussels cause the Lake Erie “Dead Zone?” Paper presented at the 2003 Conference on Great Lakes Research, Chicago, Illinois.

Culver, D.A., Conroy, J.D., Edwards, W.J., **Kane, D.D.**, Pontius, R.A., Richey, J.N., Shea, J.F., and Zhang, H. 2003. Do dreissenid mussels cause the Lake Erie “Dead Zone?” Paper presented at the 2003 Aquatic Sciences meeting of the American Society of Limnology and Oceanography, Salt Lake City, Utah.

Kane, D.D., Culver, D.A., Munawar, M., and Gordon, S.I. 2003. A Planktonic Index of Biotic Integrity (P-IBI) for Lake Erie: development, validation, and application opportunities. Paper presented at the 2003 Conference on Great Lakes Research, Chicago, Illinois.

Pontius, R.A., Conroy, J.D., Culver, D.A., **Kane, D.D.**, Zhang, H., Richey, J.N., Shea, J.F., and Zhang, H. 2003. Long-term changes in dreissenid clearance and excretion rates in western Lake Erie. Paper presented at the 2003 Conference on Great Lakes Research, Chicago, Illinois.

Kane, D. D. and Culver, D.A. 2001. Development of a Planktonic Index of Biotic Integrity for Lake Erie. Paper presented at the 2001 Conference on Great Lakes Research, Green Bay, Wisconsin.

Boerner, R.E.J., Averett, J., Beck, T., Fair, B., Fairchild, M., Heck, D., **Kane, D.**, Lenoue, M., Phillips, J., Pippin, C., Reagon, M., Sablak, G., Selbo, S., Smith, A.E., Smith, A.M., and Young, A. 2001. Using Suessian poetry to teach ecology at the graduate level. Paper presented at the 2001 meeting of the Soil Ecology Society, Callaway Gardens, Georgia. Abstract: Proceedings of the Eighth Biannual Soil Ecology Conference, Coleman, D.C. (ed.): 33-34.

Community Presentations and Demonstrations

Kane, D.D. 2021. Environmental Threats to Lake Erie- Past, Present, and Future. Kelleys Island Audubon. Kelleys Island, OH.

Kane, D.D. 2019. Mighty Muddy Maumee- *Microcystis* and Microcystins. Purdue-Fort Wayne Aquatic Biology class. Fort Wayne, IN.

Kane, D.D. 2021. 2019. Science Saturday- Kelleys Island Field Station- Plankton Demonstration at Kelleys Island State Park. Twice (Memorial Day and Labor Day Weekends).

Kane, D.D. 2019, 2018. Wild Tuesday- Lake Erie Islands Nature & Wildlife Center- Plankton Demonstration on South Bass Island

Kane, D.D., Chaffin, J.D., Bridgeman, T.B., and McKay, R.M.L. 2018. Cyanobacterial Harmful Algal Bloom detection in western Lake Erie and the Maumee River using sensor technology. Upper Maumee Watershed Partnership, Hicksville, OH.

Kane, D.D. 2017. Re-eutrophication of Lake Erie and restoration of wetlands in the Maumee River watershed of northwest Ohio. Lakewood High School Watters Seminar, Lakewood, OH.

Kane, D.D. 2015. These Go to 11: Harmful Algal Blooms in Lake Erie in 2015. Upper Maumee Watershed Partnership, Hicksville, OH.

Kane, D.D. 2015. Harmful Algal Blooms in Lake Erie: Causes, Consequences, and Corrections. Rotary Club of Wauseon, Wauseon, OH.

Kane, D.D. 2015. All In: Nutrients Exported from the Maumee River Watershed Drive Harmful Algal Blooms in Lake Erie. 2015 Land to Lake meeting. Defiance College, Defiance, OH.

Kane, D.D. 2015. Fort to Port (and Beyond) Water Quality and What We Can Do To Improve It. Implementation Conference for the Upper Maumee Watershed Management Plan. Indiana Tech Law School, Fort Wayne, IN.

Kane, D.D. 2014. Cyanoabacterial Harmful Algal Blooms (CHABs) and the Toledo Water Crisis. Freshwater and Marine Ecology Class (Fr. Dr. J.F.Shea), Creighton University, Omaha, Nebraska (given via Skype).

Kane, D.D. 2014. Ecology, Sustainability, and the Case for Northwest Ohio. Debating Defiance, Defiance College, Defiance, OH.

Kane, D.D. 2014. Harmful Algal Blooms and the Toledo Water Crisis. Rotary Club of Defiance, Defiance, OH.

Kane, D.D. 2014. What Is This Green Slime in Lake Erie, Why Is It There, and What Can Be Done to Get Rid of It? Kids Tech University, Bowling Green State University, Bowling Green, OH.

Rifenburgh, A., and **Kane, D.D.** 2014. Water quality monitoring on the Upper Maumee River. Upper Maumee Watershed Partnership, Hicksville, OH.

Golnick, P. and **Kane, D.D.** 2012. Water quality monitoring on the Maumee. Upper Maumee Watershed Partnership, Hicksville, OH.

Kane, D.D. 2012. From the Maumee River to Lake Erie: Causes and Consequences of the Re-Eutrophication of Lake Erie. Defiance County Fish and Game Association, Defiance, OH.

Maxcy, J. and **Kane, D.D.** 2011. Spending the summer making the Maumee River GLISTEN. Upper Maumee Watershed Partnership, Antwerp, OH.

Kane, D.D. 2009. Restoration Ecology and the Importance of Water Quality in Northwest Ohio Rivers on Lake Erie. Defiance Current Events Club, Defiance, OH.

Publications- Not Peer Reviewed

Muenich, R.L., Johnson, L., Bratton, J. DeVanna Fussell, K., **Kane, D.**, Kalcic, M., Robertson, D., Eberts, S., Evans, M.E., and Gibbons, K. 2017. "Phosphorus (P) and HABs: Sources of P from the Maumee River" Fact Sheet- Great Lakes HAB Collaboratory <https://www.glc.org/work/habs-collaboratory/publications>

Kane, D.D. 2012. Developing a Zooplankton Salinity Index. The McMaster School for Advancing Humanity Journal 7: 52. (abstract)

Kane, D.D. 2011. Preliminary development of a Zooplankton Salinity Index (ZSI) for the Lake Maurepas/ Lake Pontchartrain estuarine ecosystem. The McMaster School for Advancing Humanity Journal 6: 130-140.

Reports- Not Peer Reviewed

Kane, D.D., and Bridgeman, T.B. 2018. Volumetric Index of the Plankton (VIP)- Rapid Bioassessment of Plankton in the Western Basin of Lake Erie. Final Report for Visiting Faculty Researcher Program. 9 pp.

Kane, D.D., and Bridgeman, T.B. 2017. Basic and Applied Research on Cyanobacterial Harmful Algal Blooms (cHABS) in the Maumee River and Lake Erie: Final Report for Visiting Faculty Researcher Program. 10 pp.

Chaffin, J.D., and **Kane, D.D.** 2017. Effectiveness of data buoys as early warning systems for cHABs (cyanobacterial Harmful Algal Blooms) in Lake Erie. Progress Report to Ohio Water Resources Center. 14 pp.

Lenhart, C. **Kane, D.**, McMonigal, S., Canelon D., and Lenhart, P. 2017. Nutrient removal by constructed and restored wetlands in the Maumee River basin of northwest Ohio. Final report for the Ohio Lake Erie Commission (Grant number SG-503-2015). 23 pp.

Kane, D.D. 2016. Thoreau Wildlife Sanctuary. 2015-16 Annual and Final Report to Defiance College and Diehl Family Foundation. 7 pp.

Kane, D.D. 2015. Thoreau Wildlife Sanctuary. 2014-15 Annual Report to Defiance College and Diehl Family Foundation. 14 pp.

Kane, D.D., Ludsin, S.A., Briland, R.D., and Culver, D.A. 2014. Updating the Planktonic Index of Biotic Integrity (P-IBI) for Lake Erie. Final Report to the Ohio Lake Erie Commission

Lake Erie Protection Fund (Grant Number 483-14). 15 pp.

Kane, D.D. 2014. Thoreau Wildlife Sanctuary. 2013-14 Annual Report to Defiance College and Diehl Family Foundation. 9 pp.

Kane, D.D. 2013. Thoreau Wildlife Sanctuary. 2012-13 Annual Report to Defiance College and Diehl Family Foundation. 58 pp.

Lake Erie Biodiversity Conservation Strategy Core Team. 2012. Returning to a Healthy Lake: An International Biodiversity Conservation Strategy for Lake Erie. 328 pp. I am one of over 100 contributors to this technical report.

Kane, D.D. 2012. Thoreau Wildlife Sanctuary. 2011-12 Annual Report to Defiance College and Diehl Family Foundation. 42 pp.

Kane, D.D. 2011. Thoreau Wildlife Sanctuary. 2010 Annual Report to Defiance College and Diehl Family Foundation. 8 pp.

Reutter, J.M., Ciborowski, J., DePinto, J., Bade, D., Baker, D., Bridgeman, T.B., Culver, D.A., Davis, S., Dayton, E., **Kane, D.**, Mullen, R.W., and Pennuto, C.M. 2011. Lake Erie Nutrient Loading and Harmful Algal Blooms: Research Findings and Management Implications. Ohio Sea Grant College Program. The Ohio State University Technical Summary Number: OHSU-TS-060. 17 pp.

Kane, D.D. 2010. Thoreau Wildlife Sanctuary. 2009 Annual Report to Defiance College and Diehl Family Foundation. 18 pp.

Kane, D.D. 2009. Thoreau Wildlife Sanctuary. 2008 Annual Report to Defiance College and Diehl Family Foundation. 7 pp.

Kane, D.D. 2008. Thoreau Wildlife Sanctuary. 2007 Annual Report to Defiance College and Diehl Family Foundation. 10 pp.

Kane, D.D. 2006. The use of Microsoft OneNote and HP Tablet PCs in education and research at a freshwater biological field station (F.T. Stone Laboratory, Lake Erie). Final Report to Technology Enhanced Learning and Research at the Ohio State University. 12 pp.

Kane, D.D., and Culver, D.A. 2003. The development of a Planktonic Index of Biotic Integrity for the offshore waters of Lake Erie. Final Report to Lake Erie Protection Fund. Grant- LEQI 01-05. 149 pp.

Kane, D.D. 2001. Lake Erie Monitoring Network Survey responses: requirements, current data collection, and historical data. Prepared for: Ohio Lake Erie Commission and Ohio Sea Grant College Program with Funding from Ohio Sea Grant. 26 pp.

Graduate Student Committee Membership/ Fellowship Advising

University of Toledo

Phoenix Golnick (MS- 2015)

“Spatial and temporal trends in thermal structure and oxygen depletion in western Lake Erie”

<http://utdr.utoledo.edu/cgi/viewcontent.cgi?article=3002&context=theses-dissertations>

Casey Yanos (MS- 2017)

“Effects of Productivity Gradients on Fish Community Structure in Lake Erie”

https://etd.ohiolink.edu/pg_10?0::NO:10:P10_ETD_SUBID:120553

São Paulo State University

Juliana Pomari (Ph.D.-2017) “Evaluation of the efficiency of index and biological indicators – WQA, Zooplankton and Phytoplankton – used in a monitoring program of a reservoir cascade in Paranapanema River (SP/PR – Brazil)” CAPES Foundation- Study Abroad Fellowship

Undergraduate Student Research Advisees

2021

Kaiden Murphy- Use of aquatic macroinvertebrates to assess the water quality of Rock Creek

Kelly Spence/ Jess Adkins (Heidelberg University- NCWQR interns)- Potamoplankton of the Sandusky River during the summer of 2021

2020

Aleena Hess (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Diet composition of Yellow Perch (*Perca flavescens*) and White Perch (*Morone americana*) in the western basin of Lake Erie: Are *Bythotrephes longimanus* becoming more important in their diets?

2019

Audrey Laiveling (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Investigating the environmental drivers of phytoplankton community composition and cyanotoxin production in recreational and drinking source waters of the Maumee River

2018

Crista Kieley (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Planktonic algal community composition of the Maumee River: environmental factors and their relation to toxin-producing cyanobacteria

Logan Scott (Defiance College- Senior Capstone Project)- Water Quality of the New River and New River Lagoon (Belize)

2016-2018

William Ploughe (Defiance College- Senior Capstone Project- Effectiveness of Distilled Vinegar as an Herbicide on the Multiflora Rose (*Rosa multiflora*) at Thoreau Wildlife Preserve

2017

Alex Johnson (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Depth distribution of phytoplankton in western Lake Erie: Correlations between buoy and Fluoroprobe-derived data

2016

Morgan Potts (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Effectiveness of data buoys for detecting CHABs (cyanobacterial harmful algal blooms) in western Lake Erie

2014-2016

Adam Dangler (Defiance College- Senior Capstone Project)- Emerald Ash Borer (*Agrilus planipennis*) Survey of the Thoreau Wildlife Sanctuary

Susanna Stoepfel (Defiance College- Senior Capstone Project)- Grassland Arthropod Community Composition of Agricultural and Urban Locations: A Comparison Between Thoreau Wildlife Sanctuary and the Defiance College Back 40

2015

Kayla Moore (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- The effectiveness of data buoys for sampling cyanobacteria

2013-2014/2015

Rikki Gurule (Defiance College- Senior Capstone Project)- Mammals attracted to pig carrion at Thoreau Wildlife Sanctuary in Defiance, Ohio

Troy Parrett (Defiance College- Senior Capstone Project)- Control of invasive autumn olive (*Elaeagnus umbellata*) at Thoreau Wildlife Sanctuary

Alison Rifenburg (Defiance College- Senior Capstone Project)- Water Quality Monitoring on the Upper Maumee River

2014

Tiffany Atkinson (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Dissolved oxygen dynamics in the Lake Erie Sandusky subbasin: a ten-year analysis

Kathryn Stierwalt (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Nutrient limitation in the central basin of Lake Erie

2012-2014

Brad Moffett (Defiance College- Senior Capstone Project)- Project Title: A Comparison of Current and Historical Fish Assemblages of the Upper Maumee River

Stephanie Phillips (Defiance College- Senior Capstone Project)- Project Title: A survey of *Apis mellifera* Colony Collapse Disorder: Mapping of locations and potential causes in Ohio

2013-2014

Susie Stoeffel (Defiance College- Honors Project)- Digitizing the Defiance College Herbarium

2013

Kayla Miller (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: The Effect of Weather on Stratification and Destratification in Lake Erie's Western,
Sandusky and Central Basins

2011-2013

Allie Beck (Defiance College- Senior Capstone Project)- Project Title: Effectiveness of
Herbicide Applications and Cutting of Stalks to Control Common Teasel (*Dipsacus sylvestris*)

Andy Kibler (Defiance College- Senior Capstone Project)- Project Title: White-tailed deer
(*Odocoileus virginianus*) Population Estimate and Management Recommendations at Thoreau
Wildlife Sanctuary, Defiance County, OH

2012

Melanie Perello (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: Effects of local weather variation on water-column stratification and hypoxia in the
Western, Central and Sandusky basins of Lake Erie

2010-2012

Coleen Cross (Defiance College- Senior Capstone Project) (Co-Advisor with N. Griggs)- Project
Title: An Epidemiological Examination of the Distribution of Guillain-Barre Syndrome

Amy Leaders (Defiance College- Senior Capstone Project)- Project Title: Effects of an Aeration
System on Farm Pond Water Quality

Thomas Studer (Defiance College- Senior Capstone Project)- Project Title: Water Quality
Survey of Select Tributaries to the Lower Maumee River

2011

Maya Hughes (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: Dissolved Oxygen in Lake Erie: Temporal, Spatial, and Weather Influenced Trends
in the Central Basin, Sandusky Subbasin, and Western Basin

2009-2011

Robbie Lakes (Defiance College- Senior Capstone Project)- Project Title: Using Benthic
Macroinvertebrate Bio-monitoring to Assess Water Quality in the Maumee River Watershed
Jessica Maxcy (Defiance College- Senior Capstone Project)- Project Title: Changes in the Fish
Fauna of Gordon Creek during the Last Century (1887-2010)

Greg McNutt (Defiance College- Senior Capstone Project)- Project Title: Applying Biological
Controls for Pest Management: Companion Planting of French Marigold (*Tagetes patula*)

2010

Phoenix Golnick (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: Comparing Dissolved Oxygen Dynamics in the Western Basin,
Sandusky Subbasin, and Central Basin

Joanne Neugebauer (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: Entomological Collections at Stone Laboratory: A living library for the Lake Erie
Islands

2008-2010

Andy Kohls (Defiance College- Senior Capstone Project)- Project Title: Stream Quality
Monitoring in the Maumee Watershed Using Benthic Macroinvertebrates

2009

Brie Elking (F.T. Stone Laboratory- Research Experience for Undergraduates Program)- Project
Title: Lake Erie Hypoxia: do oxygen dynamics in the western basin compare with the Sandusky
subbasin?

Samantha Primer (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-
Project Title: Potential effects of the Emerald Ash Borer (*Agrilus planipennis*) (Coleoptera:
Buprestidae) on tree community composition of North Bass Island
(Ottawa County, Ohio)

2007-2009

Chris Brown (Defiance College- Senior Capstone Project)-Project Title: Investigating methods
of control for the common teasel (*Dipsacus sylvestris*)

Kasey Carlisle (Defiance College- Senior Capstone Project)-Project Title: Water quality
assessment of Thoreau Wildlife Sanctuary

Dalton Gordon (Defiance College- Senior Capstone Project)-Project Title: Analysis of Maumee
River tributary water quality through Stream Quality Monitoring

Amanda Zimmerman (Defiance College- Senior Capstone Project)-Project Title: Potential
Effects of Emerald Ash Borer (*Agrilus planipennis*) on the Ash Tree Community of Defiance
College

2008

Amy Miller (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper
Title: The Emerald Ash Borer on South Bass Island: a Study of Forest Community Composition
and Ash Tree Health

Sarah Rose (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper
Title: Alterations of the forest communities of the South Bass Island due to
Emerald Ash Borer (*Agrilus planipennis*) Infestation

Jamie Viterna (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Diel Variation in Dissolved Oxygen in the Sandusky Subbasin of Lake Erie

2007

Gwen Dubelko (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: The Presence of Metalimnetic Oxygen Maxima (MOM) in the Sandusky subbasin of Lake Erie and their Impact on Dissolved Oxygen Concentrations

Megan Eckardt (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Effects of the Emerald Ash Borer (*Agrilus planipennis*) on the Forest Communities of the Lake Erie Islands

Sophie Lehman (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Correlation of the Metalimnetic to Hypolimnetic Dissolved Oxygen Ratio with Light Penetration in Lake Erie's Sandusky Subbasin

2006

Justin Chaffin (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Burrowing mayfly (*Hexagenia* spp.) bioturbation and bioirrigation: a neglected source of internal phosphorus loading to lakes

Lauren Hitchcock (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Using the Sandusky System as a model for oxygen depletion in the central basin of Lake Erie

Mary Marasco (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Effects of phytoplankton biomass on hypoxia in the Sandusky Subbasin hypolimnion

Jessica Sizemore (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: The Volumetric Index of the Plankton (VIP): a rapid way to monitor zooplankton densities

2005-2006

Hong Nguyen (The Ohio State University- Undergraduate Honors Project)- Thesis Title: Evidence for Diel Horizontal Migration (DHM) of crustacean zooplankton in the western basin of Lake Erie.

<https://kb.osu.edu/dspace/bitstream/1811/6575/1/HongNguyenFinalSeniorHonorsThesis2.pdf>

2005

Melinda Beam (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: The effect of chlorophyll *a* concentrations on dissolved oxygen depletion in Lake Erie's Sandusky Subbasin hypolimnion

Mark Dufour (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Algal loading: light-limited tributary algae and

nutrient-limited offshore algae

Hong Nguyen (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: Diel Horizontal Migration of crustacean zooplankton in the western basin of Lake Erie

Shannon Percival (Co-Advisor) (F.T. Stone Laboratory- Research Experience for Undergraduates Program)-Paper Title: The effects of algal loading on hypolimnetic hypoxia

2004-2005

Robert Baers (Co-Advisor) (Otterbein College)- Thesis Title: A comparison of the impact of zebra mussels (*Dreissena polymorpha*) on two central Ohio streams. Winner of the George J. Phinney Award for Outstanding Achievement in Environmental Science at Otterbein College.

Popular Press Articles

Kane, D. 2015. Lake Erie Update. Land to Lake Magazine. Spring 2015 2.
http://landtolake.com/wp-content/uploads/LtoL_issue2_digital.pdf

Kane, D. 2006. Friends of Stone Lab President's Letter. Twinline: the educational letter of the Ohio Sea Grant college program. Spring Edition 28(2): 10.

Kane, D. 2005. Friends of Stone Lab President's Letter. Twinline: the educational letter of the Ohio Sea Grant college program. Winter Edition 28(1): 10.

Kane, D. 2005. Friends of Stone Lab President's Letter. Twinline: the educational letter of the Ohio Sea Grant college program. Fall Edition 27(4): 10.

Kane, D. 2003. Buckeye Island Hop 2003. Twinline: the educational letter of the Ohio Sea Grant college program. November/December 25(6): 7.

Kane, D. 2002. Buckeye Island Hop. Twinline: the educational letter of the Ohio Sea Grant college program. November/December 24(6): 6.

Kane, D. 2002. Researching, learning, and living aboard the R/V *Lake Guardian*. Twinline: the educational letter of the Ohio Sea Grant college program. November/December 24(6): 7.

Popular Press Coverage

Henry, T. *Toledo Blade*. April 19, 2021. David Bruce Baker (1935-2021). I was interviewed about Dave Baker's work for this obituary article.

<https://www.toledoblade.com/local/environment/2021/04/20/toledo-obituaries-david-bruce-baker-heidelberg-university-renowned-water-quality-expert/stories/20210419122>

Funderburg, J. WQCT AM. May 15, 2018. I was interviewed about Defiance College's Restoration Ecology program and Lake Erie Harmful Algal Blooms for an approximately hour-long show. <https://youtu.be/cPwHxPAfWG0>

Anonymous. January 2018. Defiance Professor spends summer researching HABs. Lake Erie Center Newsletter. This article details the work I did while I was a visiting researcher at the Lake Erie Center during 2017.

Anonymous. 2017. Working Together For Cleaner Water Solutions- Panel Discussions. Land to Lake Magazine. Fall 2017- 7. This article covers the panel discussion I was a part of dealing with water quality issues in the Maumee River and Lake Erie. I am also pictured on the cover.

http://landtolake.com/wp-content/uploads/LtoL_issue07_digital.pdf

Henry, T. *Toledo Blade*. May 19, 2017. Lake Erie algae issues may strike Cleveland. This article covers a talk that I gave at the Conference on Great Lakes Research in Detroit, MI, as well as other talks from the session I co-chaired. <http://www.toledoblade.com/local/2017/05/19/Lake-Erie-algae-issues-may-strike-Cleveland.html>

Rosenkrans, N. *Toledo Blade*. October 29, 2016. Removal of Ballville Dam gets approval. This article quotes from my comments made in the supplemental Environmental Impact Statement assembled by the US Fish and Wildlife Service.

<http://www.toledoblade.com/local/2016/10/29/Removal-of-Ballville-Dam-gets-approval.html>

Center for Great Lakes Literacy. Fall 2016. <http://www.cgll.org/scientistspotlight/doug-kane/> I was featured under their scientist spotlight.

Funderburg, J. WQCT AM. August 10, 2016. I was interviewed about Lake Erie Harmful Algal Blooms for an approximately hour-long show. https://www.youtube.com/watch?v=gNpJ-8rqw_Q

Nicely, L. *The Crescent-News*. May 12, 2016. Partnership proposes Maumee River Water Trail. This article covers the proposed Water Trail on the Maumee River. I am quoted on the mission of the Upper Maumee Watershed Partnership. http://www.crescent-news.com/news/local_news/partnership-proposes-maumee-river-water-trail/article_c9394f34-e3ce-5807-9732-5a35e8562bfe.html

Egan, D. *Cleveland.com*. July 4, 2015. Lake Erie's early warning system grows in battle against toxic algal blooms. This article mentions an Ohio Board of Regents-funded project that I am involved on with scientists from Bowling Green State University, F.T. Stone Laboratory, and Kent State University.

http://www.cleveland.com/outdoors/index.ssf/2015/07/lake_eries_early_warning_syste.html

13 ABC News Toledo. June 20, 2015. Mayflies are back: “They’re a sign of a healthy Lake Erie” I was interviewed about the annual return of mayflies to the shores of Lake Erie.

<http://www.13abc.com/home/headlines/Mayflies-are-back-Theyre-a-sign-of-a-healthy-Lake-Erie-308575401.html>

Smith, K. *Port Clinton News Herald*. June 12, 2015. Ohio joins Michigan, Ontario in plan to stop toxic algae. This article mentions an Ohio Board of Regents-funded project that I am involved on with scientists from Bowling Green State University, F.T. Stone Laboratory, and Kent State University.

<http://www.portclintonnewsherald.com/story/news/local/lake-erie/2015/06/12/ohio-joins-michigan-ontario-plan-stop-toxic-algae/71149578/>

Staff. *Sentinel-Tribune*. February 17, 2015. BGSU biologists lead water project. This article mentions an Ohio Board of Regents-funded project that I am involved on with scientists from Bowling Green State University, F.T. Stone Laboratory, and Kent State University.

http://www.sent-trib.com/news/bgsu-biologists-lead-water-project/article_f820374a-b6aa-11e4-a05f-8bbd49cdb4d8.html

Jackson, T. *Sandusky Register*. January 29, 2015. Scientists to study algal blooms in Sandusky Bay. This article mentions an Ohio Board of Regents-funded project that I am involved on with scientists from Bowling Green State University, F.T. Stone Laboratory, and Kent State University. <http://www.sanduskyregister.com/news/environment/7582741>

Northwest Ohio Journal. Episode: Local Water Quality. First Aired 10/2/2014. WBGU-TV, Bowling Green, OH. I was a member of a scientific panel discussing water quality in NW Ohio in the time post-Toledo Water Crisis. <http://video.wbgu.org/video/2365336228/>

Derringer, J. *The Crescent-News*. August 7, 2014. DC biology professor weighs in on Lake Erie algae issue. I was interviewed regarding the Toledo Water Crisis and the contribution of the Maumee River to the algae problems in Lake Erie.

International Association for Great Lakes Research. August 5, 2014.

Toledo drinking water ban highlights need for sound science. Press release addressing the Toledo Water Crisis in which I am quoted. <http://iaglr.org/docs/items/2014ToledoWaterBan.pdf>

International Association for Great Lakes Research. July 29, 2014. Ecosystems and Hockey Players in Transition. Press release that mentions that I dropped the puck for IAGLR hockey event as incoming President. http://iaglr.org/docs/items/IAGLR_Hockey_2014.pdf

Markey, M. *Toledo Blade*. October 7, 2013. Fighting harmful algae in Lake Erie takes a Rocket scientist. I was interviewed about a former student who has become a researcher on Harmful Algal Blooms on Lake Erie.

<http://www.toledoblade.com/MattMarkey/2013/10/08/Fighting-harmful-algae-in-Lake-Erie-takes-a-Rocket-scientist.html#kgTfBCrOe18RQcVV.03>

Odenbrett, G. *SENCER (Science Education For New Civic Engagements and Responsibilities) eNews Newsletter* Volume 13: Issue 11. May 2013. From Black Swamp to Green Soup: Campus/Community Partnership Aims for Blue Lake. This article deals with the collaboration between Defiance College and the Upper Maumee Watershed Partnership through the GLISTEN (Great Lakes Innovative Stewardship through Education Network).

Smith, A. *The Crescent-News*. September 19, 2013. Many people aware of algal problems. I was interviewed for this article that discusses the Harmful Algal Blooms on Lake Erie and efforts being done at Stone Lab to combat them.

Tinker, M. Spring 2013. Back to nature. *Defiance College: The Magazine* Edition: 103(1). I was interviewed for this piece about Restoration Ecology and the Thoreau Wildlife Sanctuary.

Wines, M. *The New York Times*. March 14, 2013. Spring Rain, Then Foul Algae in Ailing Lake Erie. There is a picture of me in a motor boat on the second page of this article. http://www.nytimes.com/2013/03/15/science/earth/algae-blooms-threaten-lake-erie.html?pagewanted=1&_r=1&ref=todayspaper

Gillies, J. Winter 2012. From river to lake: studying the source of Lake Erie's algae woes. *Environmental Monitor* Winter 2012 Edition: 4-5. This article covers research on how riverine algae from the Maumee River affects Lake Erie and highlights a research project I worked on with University of Toledo and Ohio State researchers. <http://www.fondriest.com/news/river-lake-studying-source-lake-erie-algae.htm>

Lawson, T. *The Crescent-News*. September 20, 2012. Pesticides: 50 years after the alarm sounded. I was interviewed for this article on the 50th anniversary of the publication of Rachel Carson's *Silent Spring*.

Nicely, L. *The Crescent-News*, November 8, 2012. Celebrating 40 Years of Clean Water Act. I was interviewed by the author for this article on the 40th anniversary of the Clean Water Act.

Prince, D. *The Crescent-News*. February 5, 2012. Weather shift for planting. I was interviewed about global climate change and the mild winter of 2011-12 and how this may affect planting of garden plants and crops.

Smith Horn, K. March 31, 2012. *Port Clinton News Herald*. Farms hold key to limiting toxic algae blooms. I was interviewed for this article on the link between farm runoff and cyanobacterial harmful algal blooms in Lake Erie. <http://www.portclintonnews herald.com/apps/pbcs.dll/article?AID=2012203310301>

Smith Horn, K. April 2, 2012. *Port Clinton News Herald*. Harmful algal blooms can cause rash, illness. I was interviewed for this article on human health effects of cyanobacterial harmful algal blooms in Lake Erie. <http://www.portclintonnews herald.com/article/20120402/NEWS01/204020313/Harmful-algal-blooms-can-cause-rash-illness>

Anonymous. *Toledo Blade*. April 17, 2011. Restoration: a major in science and art. Campus Connection Supplement. This article details the restoration ecology program at Defiance College of which I am in charge.

Forte, M. 2011. Going to the source- fighting harmful algal blooms begins by finding where they start. *Twinline: the educational letter of the Ohio Sea Grant college program*. Spring/Summer 33(2): 3-5. This article details research that I conducted as part of a team that was looking at Harmful Algal Blooms in northwest Ohio and Lake Erie/

Golowenski, D. *Columbus Dispatch*. July 3, 2011. Lake Erie shows signs of returning to the past. This article has a section mentioning research that I conducted with researchers at Ohio State (although my name is not stated directly).

Nicely, L. *The Crescent-News*. August 14, 2011. DC professor part of Lake Erie team examining waters. I was interviewed by the author for the article about my research.
Comer, D. 2010. Immersed in research and teaching. *Defiance College: The Magazine* Summer Edition: 10-13. I was interviewed for this piece that covered the Restoration Ecology major at Defiance College. http://www.defiance.edu/magazine/summer_10/restoration5.pdf

Nicely, L. *The Crescent-News*. December 9, 2010. 'Stop, look & GLISTEN' This article covers the GLISTEN (Great Lakes Innovative Stewardship through Education Network) grant and work that we have done at Defiance College. I was interviewed by the author for the article.

Gillies, J. December 3, 2009. Scientists: Mayflies may amplify oxygen and algae problems, but don't blame the bugs. *Great Lakes Echo*- <http://greatlakesecho.org/2009/12/03/scientists-mayflies-may-amplify-oxygen-and-algae-problems-but-dont-blame-the-bugs>. The Chaffin and Kane article on mayflies is mentioned and my co-author is quoted.

Henry, T. *Toledo Blade*. May 26, 2009. Great Lakes research, laws are shifting focus. A presentation I gave at the Annual Conference on Great Lakes Research is mentioned.

Orzolek, J. *The Crescent-News*. July 2, 2009. Oh, gee its algae. I was interviewed for this piece on algae.

Punches, K. 2008. Immersed in research and teaching. *Defiance College: The Magazine* Summer Edition: 13-14. I was interviewed for this piece that covered my background and arrival at Defiance College.

Unger, G. *WPAU 1620 AM*. March 31 and April 1, 2008. Interview. Half-hour interview covering my presentation at OAS, research, and various local and national water quality issues.

Orzolek, J. *The Crescent-News*. March 22, 2008. DC professor to discuss findings at Ohio meeting. I discuss my research regarding Lake Erie and the tie between soluble reactive phosphorus and blue-green algal blooms.

Palmer, J. *The Crescent-News*. August 30, 2007. DC event marks two-year anniversary of Katrina. I am pictured with Dr. Dalke and Professor Reed.

Nordin, D. 2007. Stone Lab's new summer offerings- entomology REU scholarship program. *Twinline: the educational letter of the Ohio Sea Grant college program*. Winter 29 (1): 11. This articles details a new Stone Lab REU project that I started in 2007.

Henry, T. *Toledo Blade*. September 6, 2006. Researchers hatch theory that mayflies add to Lake Erie algae woes. This article discusses the implications of some of the research done by myself and my REU student, Justin Chaffin at Stone Lab. Our names are not mentioned but Dr. Reutter, the Director of Stone Lab talks about our research.

Lafferty, M. *Columbus Dispatch*. August 8, 2006. Deep Trouble- Scientists scramble to find out why Lake Erie's dead zone is growing. I was interviewed for this article pertaining to hypoxia in Lake Erie.

Nordin, D. 2006. Burrowing mayflies: a possible source of phosphorus loading. *Twinline: the educational letter of the Ohio Sea Grant college program*. Summer/Fall 28 (3/4): 16. This article summarizes the research that an REU student performed with me during the summer of 2006.

Stromberg, P.C. 2006. Research Experience for Undergraduates 2006. *Twinline: the educational letter of the Ohio Sea Grant college program*. Summer/Fall 28 (3/4): 21. This article summarizes the research that a number of REU students performed with me last summer dealing with Lake Erie hypoxia and mayflies as a source of internal phosphorus

Toledo Blade Staff. *Toledo Blade*. September 1, 2003. New lake pest could star in 'Alien.' Toledo Blade- Health and Science Section- Latest Finds. I was interviewed for this article pertaining to the invasion of *Cercopagis pengoi* into the western basin of Lake Erie.

Honors and Awards

- Ohio Lake Management Society- Innovation in Lake Management Award (2021)
- Dr. Richard W. Stroede Distinguished Faculty Citation- Defiance College (2017)
- Defiance College- 5 Years and 10 Years of Service Award
- Fellow- Ohio Academy of Science (elected 2014)
- Recipient of International Association of Great Lakes Research “Certificate of Appreciation” for service to the IAGLR Board of Directors (2014-2016) (2016)
- Early Career Travel Award- American Society of Limnology and Oceanography (2011) Aquatic Sciences meeting in Puerto Rico
- Gibraltar Island Honorary Deed (2)- Friends of Stone Laboratory
- Highly Cited Author Award (2005-2009)- Journal of Great Lakes Research- for Conroy, J.D., **Kane, D.D.**, Dolan, D.M., Edwards, W.J., Charlton, M.N., and Culver, D.A. 2005. Temporal trends in Lake Erie plankton biomass: roles of external phosphorus loading and dreissenid mussels. Journal of Great Lakes Research 31 (Supplement 2): 89-110.
- Who's Who Among Executives and Professionals
- Who's Who in Sciences Higher Education
- Graduate Honoraries: Phi Kappa Phi
- Undergraduate Honoraries: Phi Beta Kappa, Alpha Lambda Delta, Phi Eta Sigma, Golden Key, Helix- Ohio State’s Biological Sciences Honorary
- Recipient of International Association of Great Lakes Research Travel Grant (2003)
- Recipient of Raymond C. Osborn Memorial Graduate Fellowship (Summer Quarter 2002)
- Winner of EEOB Outstanding Teaching Award (2002), Nominee for Award (2000 and 2001)

Service Activities

Professional

- International Association for Great Lakes Research- Past President (2015-2016), President (2014-2015), Vice President (2013-2014), Nominations Committee (2012-2017), Publications Committee (2013-2016), Conference Committee (2013-2016), Awards Committee (2014-2015)
- Ohio Lake Management Society- Board of Directors (2012-2015), (2016-Present), President- (2017- 2019), Past President (2019-2021)
- Water Management Association of Ohio- Board of Directors (2017-2019)
- Ohio Academy of Science- Board of Trustees (2011-2017)
- Upper Maumee River Watershed Partnership- Chair (2016-2017), Steering Committee (2009-2020)
- Great Lakes HABs Collaboratory (Great Lakes Commission- USGS)- Participant (2015-Present)
- Western Lake Erie Report Card Workshop- Participant (2019-2020)
- Convener of All Academy Lecture Panel Discussion for Ohio Academy of Science Annual Meeting (2019)- *Lake Erie: Ohio's Great Lake-Status, Trends, and Threats*
- North American Lake Management Society- 38th Annual International Symposium Program Co-Chair (2018)
- “Voice of the Lake” Panel Discussion on Water Quality- Cleveland, OH- Invited Participant (2017)
- Water Quality Panel Discussion- Land to Lake meeting, Defiance, OH- Invited Participant (2017)
- Global Solutions to Regional Problems: Collecting Global Expertise to Address the Problem of Harmful Algal Blooms- NSF/ NOAA Sponsored Workshop at Bowling Green State University, Bowling Green, Ohio- Invited Participant (2015)
- Algae Panel Discussion- Ohio Academy of Science Meeting, Bexley, Ohio- Invited Panelist (2015)
- Phosphorus along the land-river-lake continuum workshop held by the National Center for Water Quality Research (NCWQR) at Heidelberg University- Invited Participant (2014)
- Ohio Nutrient WQS Technical Advisory Group (2014)- Outside Observer

- Ohio Sea Grant External Review Panel for Grant Proposals (2013, 2015, 2017, 2019)
- The Nature Conservancy- Lake Erie Biodiversity Conservation Strategy Project- Lake Erie Expert (2011-2012)
- American Society of Limnology and Oceanography Emerging Issues Workshop on Integrating Terrestrial and Aquatic Phosphorus Science- Invited Participant (2011)
- State of Ohio Harmful Algal Bloom Response Strategy (2011)- Reviewer
<http://www.epa.state.oh.us/LinkClick.aspx?fileticket=RFoj4n2Ytdg%3d&tabid=5146>
- Ohio Environmental Protection Agency Harmful Algal Bloom Initiative Participant (2008-2011)
- Ohio Sea Grant Ad Hoc Maumee Bay Dredging Team Participant (2010)
- Session Co-chair for *Great Lakes Tributaries: Connecting Land and Lakes* at Conference on Great Lakes Research, Brockport, New York (2019)
- Session Co-chair for *Lake Erie Harmful Algal Bloom Research Initiatives: Field to Faucet and Beyond* at Conference on Great Lakes Research, Detroit, Michigan (2017)
- Session Co-chair for *The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework* Session at Conference on Great Lakes Research, West Lafayette, Indiana (2013)
- Session Co-chair for *Science, Civic Engagement, and Undergraduate Education Initiatives* Session at Conference on Great Lakes Research, Duluth, Minnesota (2011)
- Session Chair for Aquatics and General Biology Session at Ohio Academy of Science Meeting, Westerville, Ohio (2011)
- Friends of Stone Lab- Past President (2006-2008, 2009-2010), President (2005-2006), Vice President (2004-2005), Board Member (2001-2008, 2009-2010)

Heidelberg University

- Co-advisor for Alliance for Sustainability (AFS) (2021-Present)
- Community Engagement Committee (2021-Present)

Defiance College

- Advisor to Ecology Club (2011-2020)
- Promotion and Tenure Committee (2012-2013, 2014-2016, 2019-2020)
- Ad hoc Program Additions Task Force (2018-2019)
- Ad hoc Promotion and Tenure Task Force (2017)
- College Place Renovation Meeting Participant (2017)
- Academic Partnerships Key Results Area (KRA)- Strategic Planning Process (2016)
- Retention Performance Management Retreat- Social/Co-curricular Domain (2016)
- Thoreau Wildlife Sanctuary- Management and Oversight (2007-2015)
- Forensic Science Advisory Board (2011-2015)
- Veterinarian Advisory Board (2013-2015)
- Imagine Initiatives Committee and DC EDventures Committee (2011-2015)
- Technology Integration Group (2009-2011)
- Teacher Education Committee (2009-2013)
- McMaster Council (2011-2013)
- UCC Local Youth Event- Water Quality Speaker and Coordinator (2014)
- UCC Regional Youth Event- Thoreau Wildlife Sanctuary Speaker and Coordinator (2010)
- Faculty Affairs Committee (2011-2012)
- Environmental Science Faculty Search Committee (2019)
- Biology Faculty Search Committee (2011-2012, 2019)
- Criminal Justice Faculty Search Committee (2012-2014)

- Dr. Richard W. Stroede Distinguished Faculty Citation Selection Committee (2011, 2018, 2019)
- Dialoging in Defiance Selection Committee (2011)
- McMaster Symposium Committee (2007-2008)
- McMaster Fellow- New Orleans Learning Community (2009-2011)
- McMaster Associate Fellow- New Orleans Learning Community (2008-2009)
- Co-Advisor to Phi Sigma Chi Fraternity (2008-2011)

Student Judging

- Judge of Student Presentations at the Defiance College Honors Symposium (2019)
- Judge of Student Posters at the Society for Ecological Restoration International-Midwest-Great Lakes Chapter Conference, Chicago, Illinois (2015)
- Judge of Student Posters at Water Management Association of Ohio Annual Meeting, Columbus, Ohio (2021)
- Judge of Student Posters at Water Management Association of Ohio Annual Meeting, Columbus, Ohio (2017)
- Judge of Student Posters at Water Management Association of Ohio Annual Meeting, Columbus, Ohio (2016)
- Judge of Student Posters at Water Management Association of Ohio Annual Meeting, Columbus, Ohio (2014)
- Judge of Student Posters at Water Management Association of Ohio Annual Meeting, Columbus, Ohio (2013)
- Judge of Student Posters at American Society of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, Louisiana (2013)
- Judge of Student Posters at American Society of Limnology and Oceanography Aquatic Sciences Meeting, San Juan, Puerto Rico (2011)

- Judge of Student Posters at Conference on Great Lakes Research, Brockport, New York (2019)
- Judge of Student Presentations/Posters at Conference on Great Lakes Research, Detroit, Michigan (2017)
- Judge of Student Posters at Conference on Great Lakes Research, Burlington, Vermont (2015)
- Judge of Student Presentations at Conference on Great Lakes Research, Hamilton, Ontario (2014)
- Judge of Student Presentations/Posters at Conference on Great Lakes Research, West Lafayette, Indiana (2013)
- Judge of Student Presentations at Conference on Great Lakes Research, Cornwall, Ontario (2012)
- Judge of Student Presentations at Conference on Great Lakes Research, Duluth, Minnesota (2011)
- Judge of Student Presentations/Posters at Conference on Great Lakes Research, Toronto, Ontario (2010)
- Judge of Student Presentations/Posters at Conference on Great Lakes Research, Toledo, Ohio (2009)
- Judge of Student Presentations/Posters at Conference on Great Lakes Research, Windsor, Ontario (2006)
- Judge of Melvin Scholars (Pre-College) Posters at Ohio Academy of Science Meeting, Westerville, Ohio (2011)
- Judge of Melvin Scholars (Pre-College) Posters at Ohio Academy of Science Meeting, Springfield, Ohio (2009)