

SETAC Ohio Valley Chapter Meeting Agenda
April 20th, 2018 OSU Museum of Biological Diversity

- 8:00 – 8:55 Registration Open
9:00 – 9:15 Welcome and OVC Regional Chapter Introduction
Roman Lanno, The Ohio State University
9:15 – 10:00 Plenary – Unintended Consequences: Perspectives on Synthetic Biology Risk Assessment
Mariana Cains, Indiana University Student
10:00 – 10:45 Plenary – How the struggle for survival reveals molecular pathways of toxicity
Joe Shaw, Indiana University
10:45 – 11:00 Coffee Break

Platform Presentation Session #1

- 11:00 – 11:15 Overview of the USACE Water Quality Program Including work on New Technologies
Jade Young, U.S. Army Corps of Engineers
11:15 – 11:30 Modeling Microbial Growth in Carpet Dust at Varying Relative Humidity Levels using the
“Time-of-Wetness” Model.
Sarah Haines, Ohio State University Student
11:30 – 11:45 Zebrafish embryos as a model for ecological and human health immunotoxicity -
Preliminary data using PFOA as a case study
Alison Pecquet, University of Cincinnati Student
11:45 – 12:00 Scaling to organisms: modeling dynamic exposure in streams.
Kristi Weighman, Bowling Green State University Student
12:00 – 12:15 How to define exposure: Contribution of exposure paradigm characteristics to impairment
of aquatic organisms.
Alexandra Steele, Bowling Green State University Student
12:15 – 1:00 Lunch Onsite
1:00 – 2:15 **Poster Session (See page 2)**

Platform Presentation Session #2

- 2:15 – 2:30 Incorporating Diet into In Vitro Methods to Improve Prediction of Lead Bioavailability in
Wildlife
Alyssa Zearley, Ohio State University Student
2:30 – 2:45 Extrapolating the effects of food and silver nanoparticle stress on individuals to
populations of *Daphnia*: an empirical and theoretical approach
Louise Stevenson, Bowling Green State University
2:45 – 3:00 Application of Adverse Outcome Pathways to Non-Chemical Stressors: Assessing Effects of
Sea Lamprey Parasitism and Warmed Winter Water Temperatures
Tyler Firkus, Michigan State University Student
3:00 – 3:15 Nutrient mass balance for major Ohio watersheds into large endpoints
Dale White, Ohio Environmental Protection Agency
3:15 – 3:30 Using Mass Spectrometry to Vet Cyanotoxin Concentrations by Enzyme-Linked
Immunosorbent Assay (ELISA)
Judy Westrick, Wayne State University
3:30 – 3:45 Quantifying and Modeling Microcystin Concentration across a Gradient of Michigan Inland
Lakes
David Szlag, Oakland University
3:45 – 4:00 Break (Judges confer)
4:00 – 4:15 Award Presentations and Acknowledgments
4:15 – 5:00 Chapter Business Meeting

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Posters

1. Fungi and bacteria in different aerosol particle size fractions on the International Space Station (ISS)
Ashleigh Bope, The Ohio State University Student
2. Extraction and analysis of perfluoroalkyl substances from water using specialized organosilica adsorbents.
Paul Edmiston, The College of Wooster
3. Quantifying Ecosystem Responses to Anthropogenic Stress: An Environmental DNA (eDNA) Approach.
James Feller, The Ohio State University Student
4. Microcystin treatment by chemisorption to a thiol and amine functionalized organosilica: Comparison to powder activated carbon
Amy Graham, The College of Wooster Student
5. Habitat Alteration from Land Use: Stono River Estuary
Renan Havill, Indiana University Student
6. Total microcystin values do not reflect Ohio HAB toxicity
Carissa Hipsher, The Ohio State University Student
7. Relative Risk Assessment of Mercury Contaminated Fish Consumption
Madison Howell, Indiana University Student
8. Determining the effects of water hardness and sub-lethal levels of calcium- and magnesium-based deicing agents to the toxicity of sodium chloride using the aquatic amphipod *Hyalella azteca*.
Kelsey Kidd, Ashland University Student
9. Impacts of Microplastics on Benthic Invertebrate Feeding Ecology and Nutrition
Whitney King, The Ohio State University Student
10. Quantifying aqueous phase PAH degradation during ultrasound remediation
Danielle Kohan, The Ohio State University
11. Destruction and Detoxification of Microcystins (Cyanotoxins) by UV/Chlorine Process.
Minghao Kong, University of Cincinnati Student
12. Effects of insecticide-fungicide combinations commonly applied to almonds during bloom on honey bee larval development
Reed Johnson, The Ohio State University
13. Exploring therapeutic and toxic effects of an oral propolis supplement on Varroa-infested honey bees.
Stephanie Murray, The Ohio State University Student
14. Bioinformatic workflow for taxonomic analysis of arthropod COI sequences: Comparison of accuracy and sensitivity of various approaches
Rodney Richardson, The Ohio State University Student
15. Toxicological Effects by Cadmium In *Prochilodus magdalenae*.
Lucellys Sierra-Marquez, University of Cartagena Student
16. Predicting the toxicity of mixtures of chloride-based deicing agents to *Hyalella azteca* using mathematical models.
Jordin Vidmar, Ashland University Student
17. TBA
Emily Walker, Indiana University Student
18. Meta-analysis of nanoparticle
Robert Wheeler, Ohio State University Student
19. Methods Development for the Characterization of Carbonyl Compounds in Rainwater and the Evaluation of Their Multiphase Reactions to Form Brown Carbon.
Kevin Wokosin, The College of Wooster Student
20. Human Health Risk Assessment of water pollution in swimming area of Charleston Harbor Watershed in South Carolina

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Jiayu Zhang, Indiana University Student

21. Investigating the possible TFM-resistance of sea lampreys with a history of TFM exposure

Rui Zhang, Purdue University Student