



# Ohio Valley Chapter of SETAC

“Emerging Contaminants: Impacts, Challenges, and Advances”

April 4 – 5, 2019

US Army Corps of Engineers

Romano Mazzoli Federal Building, Louisville Kentucky

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## Wednesday April 3<sup>rd</sup>

6:00 PM Meet and Greet at the Bluegrass Brewing Company (at own cost)

## Thursday April 4<sup>th</sup>

8:00 – 8:55 Registration Opens

9:00 – 9:15 U.S. Army Corps of Engineers Welcome

*Shelton Poole, U.S. Army Corps of Engineers*

OVC Regional Chapter Introduction

*Brandon Armstrong, Michigan Department of Environmental Quality*

SETAC North America Board Presentation

*Roman Lanno, The Ohio State University*

9:15 – 9:45 United States Army Corps of Engineers: Missions, Visions, and General Organizations

*John Bock, U.S. Army Corps of Engineers*

9:45 – 10:15 Overview of USACE Water Quality Program including work on new technologies

*Jade Young, U.S. Army Corps of Engineers*

10:15 – 10:30 Coffee Break

10:30 – 11:15 Plenary – The Manhattan Project's environmental legacy and associated emerging contaminants: We're still cleaning up some 75 years later

*Karen Keil, U.S. Army Corps of Engineers*

11:15 – 12:00 Plenary – Emerging Contaminants and the Formerly Used Defense Sites (FUDS) Program

*Judy Strawhecker, U.S. Army Corps of Engineers*

12:00 – 1:30 **Networking Lunch (USACE Cafeteria; Provided onsite for all attendees)**

Networking Presentation: Getting into the workforce and improving your resume

## **Platform Presentation Session #1**

1:30 – 2:15 What are Contaminants of Emerging Concern (CECs): Examples of biological and chemistry approaches to their detection, exposure and effects.

*Jim Lazorchak, U.S. Environmental Protection Agency*

2:15 – 2:30 Analytical approaches to emerging contaminants: PFAS and 1,4-Dioxane

*Corey Knox, U.S. Army Corp of Engineers*

2:30 – 2:45 Mapping dynamic exposure in artificial streams.

*Kristi K. Weighman, MS Student, Bowling Green State University*

2:45 – 3:00 What's in your soil? It may end up on your plate. Challenges for protecting the food chain from environmental contamination.

*Kay L. Fritz, Michigan Department of Agriculture and Rural Development*

3:00 – 3:15 Evaluating the ability of probabilistic exposure models to predict sewage treatment plant effluent concentrations for chemicals disposed down the drain.

*Jennifer Z. Menzies, The Proctor and Gamble Company*

3:15 – 3:30 Coffee Break



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## Platform Presentation Session #2

- 3:30 – 3:45 Uptake and Bioactivity of Chitosan/Double-Stranded RNA Polyplex Nanoparticles in *Caenorhabditis elegans*  
*Stuart S. Lichtenberg, PhD Candidate, University of Kentucky*
- 3:45 – 4:00 Development and completion of Threshold of Toxicological Concern (TTC) database for use in hazard assessment  
*Jessica L. Brill, The Proctor and Gamble Company*
- 4:00 – 4:15 Environmental Medicine  
*David Brancato, U.S. Army Corps of Engineers*
- 6:00 – 9:00 **Networking Mixer at the Falls of Ohio**

## Friday April 5<sup>th</sup>

- 8:00 – 8:55 Registration Opens

## Platform Presentation Session #3

- 9:00 – 9:15 Adsorption of Perfluoroalkyl Substances to modified organosilica adsorbents.  
*Eva K. Stebel, Undergraduate Student, The College of Wooster*
- 9:15 – 9:30 Presence of pharmaceuticals and personal care products in northern Michigan waters and their relationship to land use.  
*Carrie O. Coy, MS Student, Bowling Green State University*
- 9:30 – 9:45 Is shyness strength? Individuals expressing bold personalities display increased behavioral sensitivity to dynamic exposure to atrazine.  
*Alexandra N. Steele, PhD Candidate, Bowling Green State University*
- 9:45 – 10:30 Plenary – Contaminants of Emerging Concern During De Facto Water Reuse  
*Susan Glassmeyer, U.S. Environmental Protection Agency*

## Poster Presentation Session

- 10:30 – 12:00 See next page for list of posters
- 12:00 – 1:00 **Networking Lunch (Poster Session Room; Lunch provided onsite for Student attendees)**
- 1:00 – 1:15 **Award Ceremony**
- 1:15 – 1:45 **OVC Business Meeting**



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## Poster Session

1. A human health risk assessment of *Vibrio vulnificus* and *Vibrio parahaemolyticus* during extreme flooding events  
*Alex M. Frank, Undergraduate Student, Indiana University*
2. Human health risk assessment in Charleston Harbor Watershed swimming areas  
*Kate Zhang, Undergraduate Student, Indiana University*
3. Pollution characteristics of Microcystins in source water in China and human health risk assessment  
*Yan Liu, University of Cincinnati*
4. Using UV/chlorine as drinking water barrier in harmful algal bloom events: effects and concerns.  
*Minghao Kong, PhD Student, University of Cincinnati*
5. Social vulnerability of community in response to sea-level rise in coastal ecoregion of South Carolina.  
*Madison M. Howell, Undergraduate Student, Indiana University*
6. Sex-dependent impact of prenatal cigarette smoke exposure on phenotypic characteristics and hepatic SIRT1 protein expression.  
*Kendall Stocke, PhD Candidate, University of Louisville*
7. Uptake of cephalexin from water to three vegetables.  
*Geoff Rhodes, PhD Student, Michigan State University*
8. Sex-specific gene expression associated with zinc homeostasis in squirrelfish  
*Tawni C. Ricker, Undergraduate Student, Northern Kentucky University*
9. Quantifying ecosystem responses to stress: An Environmental DNA (eDNA) Approach  
*James Feller, PhD Student, Ohio State University*
10. *Daphnia magna* demonstrate severe toxicity to storm water  
*Lauren Wedel, Undergraduate Student, University of Cincinnati*
11. PFAS Emerging Contaminants – Perspectives and Policies  
*Raychel Bahnick, Undergraduate Student, University of Louisville*
12. Characterization and remediation of PFAS contaminated sediments/media (*tentative*)  
*Marc Mills,, U.S. Environmental Protection Agency*