

NAC-SETAC 2021 Annual Meeting Schedule

Monday, April 5, 2021 **SHORT COURSE PART I (pre-registered participants only)**

Dr. Juanita Urban-Rich, Associate Professor of Zooplankton Ecology, School for the Environment
Graduate Program Director for Environmental Sciences and Marine Science & Technology, University of
Massachusetts, Boston

10:00 – 10:30 Introduction to Microplastics

10:30 – 11:00 Hands on Demonstration

11:00 – 12:00 Sampling Methods and Ecotoxicology

Tuesday, April 6, 2021 **FIRST DAY OF CONFERENCE**

1:00 – 1:15 **Welcome and Overview of North Atlantic Regional Chapter and SETAC**

1:15 – 3:15 **Session 1 Platform Presentations**

Water Quality

Betsy Henry, Anchor QEA, *Assessing the Relative Success of Multiple Interventions at Onondaga Lake to Reduce Mercury Bioaccumulation*

Charles Menzie, Exponent, *Application of Causal Analyses to Evaluating Ecological Changes in a River and Estuarine System Associated with Changes in Freshwater Flows*

Bianca Ross, USEPA, *Modeling the Environmental Fate and Transport of Nanocopper in Surface Waters*

Environmental Fate and Transport Research

Emma Shipley, Student, University of Connecticut, *Development and Testing of Two Polymers for in situ Passive Sampling of Munitions Compounds*

Thivanka Ariyaratna, Student, University of Connecticut Groton, *Sorption and removal kinetics of 2,4-dinitroanisole and 3-nitro-1,2,4-triazol-5-one in Contrasting fresh-water sediments: Batch Studies*

Brian DiMento, Bigelow Labs, *Photochemical Degradation of Short-Chain Chlorinated Paraffins in Aqueous Solution*

3:15 – 3:45 Break

3:45 – 4:15 **Session 2 Platform Presentations**

Microplastics

Shannon Hogan, Student, University of Massachusetts Boston, *Microplastic Pollution on Nantucket Island*

Huxley Conner, Maine Maritime Academy, *A Spatial Analysis of Microplastics and Sorbed Polybrominated Diphenyl Ethers in the Penobscot Bay Estuary, Maine*

4:15 – 4:55 Poster Session

Colby Peters, Student, Roger Williams University, *Spatial and Temporal Variations in the Mercury Content of Narragansett Bay Sediments (RI, USA)*

Sandra Robinson, USEPA, *Validating the Hot Needle Method for Determining the Presence of Microplastics*

Tara Burke, USEPA, *Using Killifish (*Fundulus heteroclitus*) Early Life Stage Assessment to Connect Mechanisms of Toxicity to Adverse Outcomes*

Joshua Mogus, Student, University of Massachusetts Amherst, *Communication Breakdown: The Endocrine Disruptors, BDE-47 and BPS, Alter Long Term Gene Expression in Mouse Brain Hormone Feedback Control When Exposed Developmentally*

4:55 – 5:00 Break

5:00 – 6:00 Keynote Speaker and Social

Walter Berry, USEPA, Keynote Speaker

Games and Prizes!

Wednesday, April 7, 2021 SECOND DAY OF CONFERENCE

9:00 – 10:45 Session 3 Platform Presentations

PFAS

Michaela Cashman, USEPA, *Reconstructed Trends of PFAS in Sediment Cores in Narragansett Bay, Rhode Island, USA*

Jonathan Ali, New Hampshire Department of Environmental Services, *Opportunities and Pitfalls for Addressing PFAS in Surface Waters: A New England Perspective*

Lisa McIntosh, Woodard & Curran, *Understanding PFAS Ecotoxicity: Where We Are and Where We Need to Go*

Amy Rosenstein, US Army Corps of Engineers, *PFAS and Human Health Toxicity Complexities*

Air Quality

Greg Drozd, Colby College, *The Surprising Sources of Pollution in Today's Air, From Car Exhaust to Personal Care Products*

10:45 – 11:00 Break

11:00 – 11:30 **Session 4 Platform Presentations**

Invertebrate Toxicity

Garrett Evensen, Student, University of Massachusetts Boston, *Effects of 17 α -Ethinylestradiol (EE2) and Ketoconazole (KZ) on Mytilus edulis Sex Differentiation Gene Expression*

Marissa Giroux, USEPA, *Using Environmental DNA and RNA to Evaluate the Impacts of Nanoplastics on Benthic Invertebrate Communities*

11:30 – 12:00 **Student Awards and Conference Conclusion**

Tuesday, May 11, 2021 [SHORT COURSE PART II \(pre-registered participants only\)](#)

Dr. J. Evan Ward, Professor and Department Head of Marine Sciences, University of Connecticut

Dr. Sandra Shumway, Research Professor of Marine Sciences, University of Connecticut

10 – 11:30 Microplastics & Marine Shellfish