

6PPD-Q Spatial PAC agenda March 30th, 2022

Where should we focus our resources first?

When, where and how does 6PPD-Quinone and Aquatic Life Converge?

Acute toxicity to several fish species has been shown, what other aquatic species are impacted?

Tire Wear Particles are persistent microplastics that are bioaccumulated

9:00 Thorsten Reemsta

Head of the Department of Analytical Chemistry

Helmholtz-Centre for Environmental Research – UFZ, Germany

Tire wear particles and associated chemicals in the environment

Thorsten Reemsta specializes in development of analytical methods for organic and polar contaminants in environmental systems, and behavior of trace pollutants in natural and engineered systems. Dr. Reemsta is a member of the Division of Environmental Chemistry and Ecotoxicology of the German Society. Thorsten has authored hundreds of peer-reviewed papers, including several recent papers on TRWP and associated organic contaminants in the environment.

[*Aging of tire and road wear particles in terrestrial and freshwater environments*](#)

9:20 Markus Hecker

Professor & Canada Research Chair

University of Saskatchewan

Toxicology Centre and School of the Environment & Sustainability

Occurrence of 6PPD-quinone in cold-climate urban runoff and acute toxicity to four fishes of commercial, recreational and cultural relevance

Markus Hecker is a Professor and Canada Research Chair in Predictive Aquatic Toxicology, with 25 years of experience in conducting research in ecotoxicology and chemical hazard assessment. He is considered a global expert in environmental risk assessment, ecotoxicogenomics, hazard characterization of contaminants in native fishes and amphibians, and development of alternatives to live animal testing. Dr. Hecker is a member of the College of the Royal Society of Canada, and a visiting/guest professor at Xiamen University, China. He is the co-Editor-in-Chief of Aquatic Toxicology and serves/served as an advisor/expert to several national and international organizations including Environment and Climate Change Canada, Health Canada, the U.S. Environmental Protection Agency, the European Food Security Agency and the Organization for Economic Cooperation and Development. Markus has authored or co-authored over 200 peer-reviewed papers, review articles, editorials and book chapters over his career.

Including the recent paper "[Acute Toxicity of the Tire Rubber-Derived Chemical 6PPD-Quinone to Four Fishes of Commercial, Cultural, and Ecological Importance](#)".

9:40 Chad Larson

Washington State Department of Ecology

Examining the direct and indirect impacts of anthropogenic stressors on stream macroinvertebrate communities at multiple spatial scales: a structural equation modeling approach.

Natural Resource Scientist in the Environmental Assessment Program and project lead for biological monitoring for several stream monitoring studies occurring throughout the state

[Stream Biological Monitoring](#)

10:00 Coffee Break

10:10 Christy Rains

Fish Passage Section Manager
Washington State Fish & Wildlife

WDFW's Fish Passage Barrier Inventory & Assessment Program – An Overview

[Fish passage inventory, assessment, and prioritization](#)

10:30 Braeden Van Deynze

Postdoctoral Research Associate
University of Washington School of Marine and Environmental Affairs

Analyzing and applying cost information in restoration planning

Dr. Braeden's research applies econometric and microeconomic methods to better inform conservation planning, with a recent focus on fish passage issues in the Pacific Northwest.

10:50 Robert McKane & Jonathan Halama (Speakers)

Environmental Protection Agency & Oregon State University
Additional Authors: Vivian Phan, Allen Brookes, Kevin Djang, Edward Kolodziej, Katherine Peter, Zhenyu Tian.

VELMA model green infrastructure applications for reducing 6PPD-quinone concentrations in Puget Sound urban streams.

[VELMA](#)

11:20 Break - "Elevenzies"

11:30 Updates & Discussion

12:00 Wrap up

SAVE THE DATE: May 18th (*Updated Teamvite coming soon*)

NOAA updates

6PPD Proviso updates

Monitoring Strategy & Coordination

Next steps

Thank you everyone!

Link to our shared folder for presentation uploads for those willing to share:

[6PPD PAC Folder](#)

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