

THE DEPT OF FORESTRY & NATURAL RESOURCES PRESENTS

FALL 2025 SEMINAR SERIES

MONDAY, OCTOBER 6TH
WSLR 116 3:30 PM - 4:30 PM

JOIN US FOR A LECTURE AND CONVERSATION WITH

DR. DANIELE MIRANDA

The Forever Problem: PFAS in the Great Lakes Watersheds



Dr. Daniele Miranda studies the fate and transport of organic contaminants in aquatic ecosystems.

This series aims to stimulate discussion and create opportunities for collaborations. Everyone is welcome to attend.

Per- and polyfluoroalkyl substances (PFAS) are among the most concerning contaminants in aquatic environments, with serious implications for ecological and human health. Persistent and bioaccumulative, PFAS are widespread in the Great Lakes and frequently detected across multiple lake compartments. Understanding their movement and pathways is critical to assessing risks to public health. Top predators, including native and introduced salmonids, carry high PFAS burdens, posing threats to human consumers. Introduced Pacific salmon also transfer PFAS into spawning tributaries, where their eggs and carcasses expose fish, wildlife, and anglers, forming a "PFAS Lake-Riverine Cycle." A meta-analysis showed PFAS levels increase eastward across the Great Lakes. While PFOS concentrations have declined following its phase-out in the early 2000s, newer PFAS continue to emerge and persist. These contaminants threaten ecosystem services, including food supply, fisheries, and recreational economies, underscoring the urgency of continued monitoring and mitigation.

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IF YOU ARE INTERESTED IN MEETING WITH DR. DANIELE MIRANDA PLEASE CONTACT DR. SEPULVEDA OR DR. HOSKINS AT MARISEP@PURDUE.EDU AND TDHOSKINS@PURDUE.EDU.