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UNIVERSITY

Department of Civil and Environmental Engineering  
Case Western Reserve University  
Bingham Bldg. Room 208  
10900 Euclid Ave  
Cleveland, OH 44106

## Civil and Environmental Engineering Department Seminar

### Curious Incidences of PFAS at Environmental Interfaces

**Jennifer A Field**

Professor

Department of Environmental & Molecular Toxicology  
Oregon State University

**Date:** Thursday May 6, 2021, 12:45 – 2:00 PM

**Meeting ID:** 925 0263 5986 **Passcode:** 151477

<https://cwru.zoom.us/j/92502635986?pwd=dkZEMWVocGZWL0UvQlJudlM4bHl5Zz09>

**Abstract:** The unique chemistry of per- and polyfluoroalkyl substances (PFAS) is presented in the context of their use in fire fighting foams. The composition of AFFF, AFFF history, and its application are presented as a means to introduce the behavior of PFAS at interfaces including the nonaqueous phase liquid interface with water in the subsurface and at the air-water interface of surface waters in the form of foam and at the surface microlayer and in groundwater wells.

**Biosketch:** Dr. Field has a Ph.D. in geochemistry from the Colorado School of Mines. Her current research focuses on the development and application of quantitative analytical methods for organic micropollutants and their transformation products in natural and engineered systems with a focus on per- and polyfluoroalkyl substances (PFAS). Early in her career, she focused on field-based research to investigate the fate and transport of surfactants in groundwater and wastewater treatment systems. She is considered a pioneer in the area of PFAS occurrence and behavior and has focused on groundwater contaminated by fire-fighting foams and PFAS in municipal wastewater treatment systems and in municipal landfill. Current work focuses on the development of PFAS fingerprinting sources, characterizing PFAS in landfill gas, and PFAS on specialized textiles and other materials. She serves as an Executive Editor for Environmental Science and Technology and was an editor for Water Research from 2004-2008.

