

ENCOMPASSING THE REALM OF PFAS: PRODUCTION TO DESTRUCTION

Wednesday, October 12, 2022
12:30 PM EDT

Presentation Description

Background/Objectives

Per- and polyfluoroalkyl substances (PFAS) are a class of emerging contaminants that are being detected in a variety of matrices including soil, water, and air due to widespread historical use. Available technologies to treat PFAS-impacted matrices continue to evolve as regulations are being promulgated. More efficient and feasible treatment alternatives are required to eliminate short- and long-term PFAS risks and liabilities.

Approach/Activities

The regulatory, investigation, and remedial paradigms for emerging contaminants such as PFAS are continually evolving and require a robust understanding of regulatory and scientific developments. As PFAS destruction technologies are developed, the need for low-cost, flexible, and sustainable alternatives has become evident. In this presentation, we will explore multiple aspects of PFAS remediation and provide a window into Parsons' PFAS research and development program.

Results/Lessons Learned

This presentation will include a review of field-implemented, limited application, and developing PFAS treatment technologies. To meet the need for a more efficient remedial solution, Parsons is developing an in situ PFAS destruction technology. Our patent-pending technology employs the injection of warm water and catalyzed oxidants and has been successfully demonstrated on a wide range of PFAS in complex matrices.

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About the Presenters



RYAN THOMAS, PhD

Ryan Thomas, PhD, is an Emerging Contaminants Principal and Technical Director with 14 years of experience in research and professional consulting. He has provided technical solutions for clients, published peer-reviewed articles, and supported technology development.



AKSHAY PARENKY, PhD

Akshay Parenky, PhD, is an Emerging Contaminants Engineer and lead researcher on the Parsons in situ PFAS destruction technology. He has several peer-reviewed publications and assists clients with finding viable solutions to their PFAS challenges.