

TECHNICAL SESSION SCHEDULE

TUESDAY - JUNE 13, 2023

7:30 AM
9:20 AM
9:30 AM
9:40 AM
9:50 AM
10:00 AM
10:10 AM
10:20 AM
10:30 AM
10:40 AM
10:50 AM
11:00 AM
11:10 AM
11:20 AM
11:30 AM
11:40 AM
11:50 AM
12:00 PM
12:10 PM
12:20 PM
12:30 PM
12:40 PM
12:50 PM

1:00 PM
1:10 PM
1:20 PM
1:30 PM
1:40 PM
1:45 PM
1:55 PM
2:05 PM
2:15 PM
2:25 PM
3:05 PM
3:00 PM
3:10 PM
3:20 PM
3:30 PM
3:40 PM
3:45 PM
3:55 PM
4:05 PM
4:15 PM
4:25 PM
4:30 PM
5:10 PM
5:20 PM
5:30 PM
5:40 PM
6:10 PM
6:20 PM
6:30 PM
6:40 PM
6:50 PM
7:00 PM
7:10 PM
7:20 PM
7:30 PM
7:40 PM
7:50 PM
8:00 PM

11:00 PM
12:00 AM

WORKSHOP REGISTRATION & ROOM CHECK-IN

Opening Remarks & Keynote Speaker Introduction

Keynote - John F. Bratton, PhD, PG (LimnoTech)

Using Statistical Modeling and Python to Efficiently Create 3D Deliverables and Design Remedial Options
Jim Depa (Jacob and Hefner Associates, Inc.)

Factors Affecting the Fate and Transport of PFAS – Lessons Learned Investigating and Remediating PFAS in Michigan
Len Mankowski (WSP)

LUNCH

Sponsored by - **BARR ENGINEERING**

BREAKOUT SESSIONS

SESSION A Emerging Contaminants	SESSION B Site Investigation	SESSION C Remediation
1:00 PM 1:10 PM 1:20 PM 1:30 PM 1:40 PM 1:45 PM 1:55 PM 2:05 PM 2:15 PM 2:25 PM 3:05 PM 3:00 PM 3:10 PM 3:20 PM 3:30 PM 3:40 PM 3:45 PM 3:55 PM 4:05 PM 4:15 PM 4:25 PM 4:30 PM 5:10 PM 5:20 PM 5:30 PM 5:40 PM 6:10 PM 6:20 PM 6:30 PM 6:40 PM 6:50 PM 7:00 PM 7:10 PM 7:20 PM 7:30 PM 7:40 PM 7:50 PM 8:00 PM	Identification of Geologic Controls on Multiple Migration Pathways for Fuel Hydrocarbon Contaminants in a Residential Setting Richard Raetz, PE and Rex Johnson, PhD (Global Remediation Technologies)	Effective Use of Colloidal Activated Carbon In Situ to Reach Site Closure Ryan Moore (Regenesis)
Utilizing a Multi-phase Finite-difference Multi-species Computer Model that Accommodates Dynamic Sorption and Competitive Interactions to Interpret and Predict PFAS Fate and Transport at Michigan Sites Owen Miller (Regenesis)	Soil Heterogeneity and the basics of Incremental Sampling Chris Christensen, CPG (EGLE)	ZVI Application to Till Via Environmental Fracturing Derrick Lingle, CPG, Kayla Rooney (Fishbeck)
Networking Break - Sponsored by - AECOM		
In-Situ Occurrence of Feammox Conditions and Anammox Bacteria within a PFAS Plume at the Groundwater-to-Surface Water Interface Barry Harding, CPG, James Buzzell (AECOM)	Furthering Hydrologic Characterization by Visual Mapping of Injection Data Andrew Kavanagh LPG, Seth Benson (Regenesis)	Do You Know Your Site? Qualitative Characterization, Modeling, and Remediation to Predict Site Closure Roger Paulson, PG (Southern Environmental Management & Specialties), Bill Brab, CPG (AST Environmental)
Plasma-Based PFAS Destruction Study of Groundwater Infiltrating into a Chrome Plating Facility Basement Selman Mujovic (Purafide), Nick Swiger, CPG, PE (EGLE), Barry Harding, CPG (AECOM)	ISM and In-Vitro Bioaccessibility Sampling for Exposure Risk Evaluation at a Former Orchard Steve Zayko, PE, CPG, Jeff Crum (Hamp, Mathews & Associates), Chris Christensen, CPG, Eric Wildfang, PhD (EGLE RRD)	Development of an Innovative and Cost-Effective Boron Adsorbent Media Rob Ferree, CPG (Geosyntec)

Closing Remarks

EVENING BREAK - Check-in at local hotel, Shuttle Service Available

DINNER (bar open)

Sponsored by - **ERG and TETRATECH**

TECHNICAL DEMONSTRATIONS/INFORMAL Q&A

Vapor Pin Sampling Device Demonstration - *Vapor Pin* - Kyle Chilcote, Austin Johnson
 Volatilization to the Indoor Air Pathway Roundtable - *Matt Williams* (EGLE-RRD)
 HRSC Demo - *Eagle Synergistic* - Janet Castle, Vince Kowalick
 Geotech Environmental Equipment Demo - *Geotech* - Justin Mack

SOCIAL EVENT

LIVE MUSIC, OPEN BAR, BONFIRES, Shuttle Transportation to Hotels

Sponsored by - **CN, Parsons, EDR Lightbox**

Live music ends @11PM

Last Call for Shuttle Service to Hotels

TECHNICAL SESSION SCHEDULE

WEDNESDAY - JUNE 14, 2023			
7:15 AM	Breakfast - Sponsored by - AECOM		
7:20 AM	SESSION A	SESSION B	SESSION C
7:50 AM	Emerging Contaminants	Site Investigation	Remediation
8:00 AM	Morning Coffee & Networking		
8:50 AM	Morning Coffee & Networking		
9:00 AM	The Role of Microbes on the Fate of PFAS in the Environment	Optimizing Investigations of Complex Co-Mingled Contaminates with Utilizing Subsurface Imaging Technologies to Efficiently Understand the Lithology, Hydrology, Contaminate Mass, Distribution, and Migratory Pathways	Navigating Processes that Drive Natural Attenuation Demonstrations for Inorganic Contaminants
9:10 AM	Len Mankowski (WSP), Timothy Repas (Fixed Earth), Janice Adams (EGLE RRD)	Janet Castle, PG, Vince Kowalick (Eagle Synergistic)	Brian Ares (Geosyntec)
9:20 AM			
9:30 AM			
9:40 AM			
9:45 AM	Bench- and Pilot-Scale Evaluation of Ozone Fractionation Treatment Technology for PFAS Impacted Landfill Leachate	Unified performance assessment metric for NAPL management - status quo or transition?	Chlorinated Solvents in Soil and Groundwater Reduced >95% by in-situ Remediation Techniques to Eliminate Vapor Intrusion Risk Pathways
9:55 AM	Christopher Peters, PG, CPG (Arcadis)	Ranga Muthu, PhD (Parsons Corporation)	Doug Spencer, Jeff Crum (Hamp, Mathews & Associates), Ryan Moore (Regensis)
10:05 AM			
10:15 AM			
10:25 AM	MORNING BREAK Sponsored by - TETRATECH		
10:35 AM	Microplastics: A Review of What They Are, Why We should Be Concerned, and Where They Will End Up	Flexible Investigation Tool for Emerging and Traditional Contaminants– GHD InSite	Treating PCE Groundwater Flux & Secondary Sources to Address the VIAP
10:45 AM	Michael Ellis, PE (Barr Engineering)	John Owens, Jonathan Eller (GHD)	Nick Rogers, Len Mankowski (WSP), Ashley Lesser (EGLE RRD)
10:55 AM			
11:05 AM			
11:15 AM			
11:20 AM	Transport and Effects of Microplastics	A Tale of Two Models: Combining Analytical and Numerical Modeling to Estimate Contaminant Arrival Time	Aerobic Dehalogenation of Organic Pollutants Using Site-Derived Microbes, BAM, and Electrooxidation
11:30 AM	Mala Hettiarachchi, PhD, PE (Environmental Resources Group)	Katy Lindstrom, PE (Barr Engineering)	Larry Kinsman (Orin Technologies), Timothy Repas (Fixed Earth)
11:40 AM			
11:50 AM			
12:00 PM	LUNCH Sponsored by - DUNE TECHNOLOGIES		
	SESSION A: Site Closure		
1:00 PM	Mine Closure Cost Estimations: A heart attack waiting to happen for those who don't plan ahead	EGLE's New Table of Contents for Mitigation Systems	Incorporating Green and Sustainable Remediation Metrics into a Remediation Feasibility Study
1:10 PM	Dawn Garcia, CPG (Stantec)	Matt Williams (EGLE RRD)	Howard Nichols, PE, Graham Crockford, CPG (TRC)
1:20 PM			
1:30 PM			
1:40 PM			
1:45 PM	Strategy for Closure at 79 Petroleum Sites	Measurement Uncertainty in Laboratory Test Results: Understanding What Your Results Really Mean...	Biotic and Abiotic Reduction to Achieve Green/Sustainable Groundwater Cleanup Objectives at Metals Contaminated Sites
1:55 PM	Michael Coram, CPG (Geosyntec), Elaine Pelc (EGLE RRD)	Taras Obal, Ph.D. (Metiri)	Vincent Buening, CPG, Scott Pawlukiewicz, PE (TRC)
2:05 PM			
2:15 PM			
2:25 PM	AFTERNOON BREAK - ICE CREAM SOCIAL		
2:35 PM	Sponsored by - EAGLE SYNERGISTICS		
2:45 PM	Sponsored by - EAGLE SYNERGISTICS		
2:55 PM	Michigan Case Study: Wolverine PFAS Investigations Karen Vorce (EGLE RRD)		
3:05 PM	EPA PFAS Criteria Revisions Abigail Hendershott (EGLE MPART)		
3:15 PM			
3:25 PM			
3:35 PM			
3:45 PM			
3:55 PM	Closing Remarks - Day 2		
4:05 PM	Raffle Drawing		
4:15 PM			