

TECHNICAL SESSION SCHEDULE

TUESDAY - JUNE 13, 2023

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WORKSHOP REGISTRATION & ROOM CHECK-IN

Opening Remarks & Keynote Speaker Introduction

Keynote - TBA

Panel Discussion - TBA

Michigan & Superior Level Sponsor Introductions

LUNCH - SPONSORED BY BARR ENGINEERING

BREAKOUT SESSIONS

Session A Emerging Contaminants	Session B Site Investigation	Session C Remediation
Statewide PFAS Monitoring of Ambient Groundwater and Widespread Impacts from an Industrial PFAS Facility Michael Ranck, PG (Fishbeck); Andy Neal (NC DEQ)	Identification of Geologic Controls on Multiple Migration Pathways for Fuel Hydrocarbon Contaminants in a Residential Setting Richard Raetz PE, Rex Johnson PhD, CPG (GRT, Inc.)	ZVI Application to Till Via Environmental Fracturing Derrick Lingle, Kayla Rooney (Fishbeck)
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 Keith Gaskill (Regenesis)	Furthering Hydrologic Characterization by Visual Mapping of Injection Data Andrew Kavanagh LPG, Seth Benson (Regenesis)	Effective Use of Colloidal Activated Carbon In Situ to Reach Site Closure Ryan Moore (Regenesis)
Networking Break - Sponsored by -		
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)	Soil Heterogeneity and the basics of Incremental Sampling Chris Christensen, CPG (EGLE RRD)	Chlorinated Solvents in Soil and Groundwater Reduced >95% by in-situ Remediation Techniques to Eliminate Vapor Intrusion Risk Pathways Joel Parker PE, Jeff Crum (Hamp Matthew & Associates) & Ryan Moore (Regenesis)
Plasma-Based PFAS Destruction Study of Groundwater Infiltrating into a Chrome Plating Facility Basement Selman Mujovic (Purafide), Nick Swiger PE, CPG (EGLE RRD), Barry Harding, CPG (AECOM)	ISM and In-Vitro Bioaccessibility Sampling for Exposure Risk Evaluation at a Former Orchard Steve Zayko, Jeff Crum (Hamp Matthews & Associates), Chris Christensen, CPG, Eric Wildfang PhD (EGLE RRD)	Do You Know Your Site? Qualitative Characterization, Modeling, and Remediation to Predict Site Closure Roger Paulson (Southern Environmental Management & Specialties), Bill Brab, CPG (AST Environmental)

Closing Remarks

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

DINNER

SPONSORED BY - ENVIRONMENTAL RESOURCES GROUP &

TECHNICAL DEMONSTRATIONS/INFORMAL Q&A
Vapor Pin® Sampling Device Demonstration - Vapor Pin
Volatilization to the Indoor Air Pathway: Challenges and Creative Approaches - Matt Williams (EGLE RRD)
HRSC Demo - Eagle Synergistic
Geotech Environmental Equipment Demo - Geotech

SOCIAL EVENT

LIVE MUSIC, REFRESHMENTS, BONFIRES, Shuttle Transportation to Hotels
SPONSORS:

TECHNICAL SESSION SCHEDULE

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