

**AIPG Michigan Section  
8th Annual  
Environmental Risk Management Workshop  
Emerging Contaminants & Pathways: A New Paradigm**

TUESDAY - JUNE 12, 2018

8:00 AM	<b>Workshop Registration</b>
9:30 AM	<i>Opening Remarks &amp; Keynote Speaker Introduction</i>
9:40 AM	<i>Keynote - <b>Aaron Johnson, Ph.D., AIPG National Executive Director</b></i>
10:30 AM	<i>Panel Discussion - Emerging Contaminants &amp; Pathways: Discovery, Risks, Management &amp; Policy: Experts in the Field</i>
12:00 PM	<b>Lunch - Sponsored by Dakota Technologies</b>
1:00 PM	<i>Michigan &amp; Superior Level Sponsor Introductions</i>
1:30 PM	<i>PFAS: Global Perspective New Remediation Technologies for Emerging Challenges Allan Horneman, Ph.D. - Arcadis</i>
2:10 PM	<b>Networking Break - Sponsored by BARR Engineering</b>

**BREAKOUT SESSIONS**

	Session A PFAS - Emerging Contaminant Management	Session B Volatilization to Indoor Air Pathway (VIAP)
2:30 PM	<i>PFAS Management Considerations for Reducing Liabilities Jay Mullet, PE, Saamih Bashir, PE, PMP - Wood, PLC</i>	<i>Remediation Strategies Focused on Indoor Air Protection from Chlorinated Compounds and Associated CSM Changes Affected by Active Sub-slab Depressurization Richard Raetz - Global Remediation Technologies &amp; Ray Spaulding - MDEQ Remediation and Redevelopment Division</i>
3:10 PM	<i>Risk Assessment - Challenges and Opportunities, using PFAS Exposure Assessment as an Example Jenny Phillips - TRC Environmental Corporation</i>	<i>New Tools for More Cost-Effective Vapor Intrusion Mitigation System Design Todd McAlary, Ph.D., PE, PG - Geosyntec Consultants</i>
3:50 PM	<i>Physical-Chemical Properties of PFAS: Implications for Understanding and Modeling of Fate and Transport Timothy Dekker, Ph.D., Scott Bell, PE - LimnoTech</i>	<i>The Part 201 MIOSHA Alternate: A Worker Protection Approach to VIAP Emily Bertolini - MDEQ Remediation &amp; Redevelopment Division</i>

4:30 PM	<b>Closing Remarks</b>
4:40 PM	Break - Hotel Check-in - (Shuttle back to RAM from hotels available)
5:15 PM	<b>Dinner - Sponsored by PeroxyChem</b>
6:30 PM	<i><b>Field Demonstrations</b> - MDEQ - HVSr Passive Seismic, Limnotech - Continuous Sensors for Contaminant Tracking, Wood PLC - Sampling for Emerging Contaminants, Cascade Technical Services - Mobil Laboratory, Mateco Drilling - Sampling Equipment, Triton - Polyurea Application</i>

8:00 PM - 12:00 AM	<b>Social Event</b> <i>Live Music by Waynesboro Bonfires &amp; Open Bar</i> <b>Sponsor(s) - Job Site Services, EDR, FRx, CN Railroad</b> <i>Shuttle Transportation to and from Hotels in Houghton Lake</i>
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WEDNESDAY - JUNE 13, 2018

7:15 AM	<b>Breakfast - Sponsored by Pace Analytical Laboratories</b>	
8:00 AM	<b>Session A</b> 1,4-Dioxane Remediation & Characterization	<b>Session B</b> PFAS - Emerging Contaminant Properties
	<i>Evaluation and Enhancement of Intrinsic 1,4-Dioxane Biodegradation</i> <i>Timothy Richards - Golder, et al.</i>	<i>PFAS in Groundwater: Fate, Transport, and Treatment</i> <i>Adam Janzen - BARR Engineering</i>
8:40 AM	<i>Utilizing Co-Metabolic Biodegradation and Hydrogeologic Enhancements to Remediate 1,4-Dioxane in a Complex Hydrogeological Setting</i> <i>Jackie Saling, Patrick Curry - ARCADIS &amp; David Favero - RACER Trust</i>	<i>Procedural Challenges with Collection &amp; Analysis of Groundwater Samples for Per-and Polyfluoroalkyl Substances (PFAS) and Other Emerging Contaminants</i> <i>Jim Brode - Fleis &amp; VandenBrink &amp; Nathan Eklund - Pace Analytical Laboratories</i>
9:30 AM	<b>Networking Break - Sponsored by Consumers Energy Laboratories</b>	
9:50 AM	<i>Advanced Oxidation Process Pilot Evaluation and Final Design for 1,4-Dioxane Removal from Groundwater</i> <i>Katie Wolohan - BARR Engineering</i>	<i>The Analysis of Polyfluorinated Alkyl Substances (PFAS) Including the TOP Assay</i> <i>Karla Buechler - TestAmerica Laboratories, Inc.</i>
10:30 AM	<i>Prediction of 1,4-Dioxane Migration Through Glacial Sediments using Integrated Deterministic Models and Stochastic Methods</i> <i>Lawrence Lemke, Ph.D - Central Michigan University</i>	<i>PFAS: Smart Characterization for an Emerging Contaminant</i> <i>Patrick Curry - Arcadis and Michael Rossi - Cascade Technical Services</i>
	<b>Session A</b> PFAS - Remediation Alternatives	<b>Session B</b> Emerging Contaminants Pathways and Treatment
11:20 AM	<i>Emergent Contaminants Poly- and Perfluoroalkyl Substances (PFAS) at Wurtsmith Air Force Base, Oscoda MI</i> <i>A Review of Investigation, Remedial Activities, and Risk Management</i> <i>Dale Corsi, Scott Park - DLZ Corporation</i>	<i>Applying Proven In-situ Remedies like Bioavailable Absorbent Media to Emerging Contaminants</i> <i>Larry Kinsman - ORIN Remediation Technologies</i>
12:00 PM	<b>Lunch - Sponsored by Environmental Resources Group, LLC</b>	
1:00 PM	<i>Is Phytoremediation of Perfluoroalkyl Acids (PFAAs) Possible?</i> <i>Barry Harding - AECOM</i>	<i>Evaluation of Bioavailability of Arsenic from Contaminated Soil Case Study for a Site in Southeast Michigan</i> <i>Vince Buening - TRC Environmental Corp. &amp; Divinia Ries, MPH, MS, Ph.D. - MDEQ Remediation &amp; Redevelopment Division</i>
1:40 PM	<i>Recent Developments in Alternatives for PFAS Groundwater Treatment including an Emerging On-site Destruction Technology</i> <i>Justin Gal - Wood, PLC</i>	<i>Combined Remedies for the Treatment of Soil &amp; Groundwater Contaminated with Emerging Contaminants</i> <i>Daniel Cassidy, Ph.D. - Western Michigan University</i>
2:10 PM	<i>Key Factors Influencing PFASs Fate/Transport and Impacts on PFAS Remediation Strategies</i> <i>Dave Woodward - Wood, PLC</i>	<i>An Integrated Approach to Assessing Preferential Flow Pathways in Fractured Siliciclastic Aquifer Systems Using Geochemical, Microbiological, and Geomechanical Methods</i> <i>Christopher Gellasch, Ph.D. - Eastern Michigan University</i>
3:00 PM	<b>Networking Break - Ice Cream Social - Sponsored by Vista Analytical Laboratories</b>	
3:30 PM	<i>Hidden Danger! Are You Corrupting Your PFAS Data?</i> <i>John Cuthbertson - AECOM</i>	
4:00 PM	<i>Taking Action on PFAS</i> <i>Steve Sliver - MDEQ</i>	
4:45 PM	<b>Closing Remarks &amp; Raffle Drawing</b>	