

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

TUESDAY - JUNE 12, 2018

8:00 AM	Workshop Registration
9:30 AM	<i>Opening Remarks & Keynote Speaker Introduction</i>
9:40 AM	<i>Keynote - Aaron Johnson, Ph.D., AIPG National Executive Director</i>
10:30 AM	<i>Panel Discussion - Emerging Contaminants & Pathways: Discovery, Risks, Management & Policy: Experts in the Field</i>
12:00 PM	Lunch - Sponsored by Dakota Technologies
1:00 PM	<i>Michigan & 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	Networking Break - Sponsored by BARR Engineering

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 & 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 & Redevelopment Division</i>

4:30 PM	Closing Remarks
4:40 PM	Break - Hotel Check-in - (Shuttle back to RAM from hotels available)
5:15 PM	Dinner - Sponsored by PeroxyChem
6:30 PM	<i>Field Demonstrations - 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	Social Event <i>Live Music by Waynesboro Bonfires & Open Bar</i> Sponsor(s) - Job Site Services, EDR, FRx, CN Railroad <i>Shuttle Transportation to and from Hotels in Houghton Lake</i>
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WEDNESDAY - JUNE 13, 2018

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