

**AIPG Michigan Section
9th Annual
Environmental Risk Management Workshop
Hazardous Substances in Soil, Groundwater & Vapors: The New Turning Point**

TUESDAY - JUNE 11, 2019

7:30 AM	Workshop Registration		
9:00 AM	<i>Opening Remarks & Keynote Speaker Introduction</i>		
9:15 AM	<i>Keynote - Todd McAlary, Ph.D., PE, PG, Geosyntec Consultants</i>		
10:00 AM	<i>Vapor Intrusion – Where We’ve Been and Where We’re Going Mitch Wacksman - Arcadis</i>		
10:45 AM	<i>Regulatory Approach to Vapor Intrusion - Matt Williams - EGLE</i>		
11:00 AM	<i>Vapor Intrusion Question & Answer - Todd McAlary, Mitch Wacksman, & Matt Williams</i>		
11:30 AM	<i>Michigan & Superior Level Sponsor Introductions</i>		
12:00 PM	Lunch - Sponsored by Dune Technologies / EGLE Drone Demonstration/ Group Photo		
BREAKOUT SESSIONS		DEMONSTRATIONS	
	Session A Volatilization to Indoor Air	Session B Innovation	Session C Tools & Technologies
1:00 PM	<i>High Volume Sampling for Identification of High-Risk Areas: A Case Study Paul Nicholson - Geosyntec</i>	<i>Novel Use of 16S Ribosomal RNA Bacteria Profiling for Conceptual Site Models and Site Remediation Barry Harding - AECOM</i>	<i>Vapor Well & Pin Installation Hands-On Activity EGLE Geological Services Section</i>
1:40 PM	<i>Measuring Indoor Air Concentrations for Multi-Week Periods to Provide a More Accurate VI Risk Assessment Harry O'Neill - Beacon</i>	<i>Isotope Analyses to Support Natural Attenuation Evaluations of Former Manufactured Gas Plant Parameters of Concern Sam Baushke - Barr Engineering</i>	<i>Vapor Well & Pin Sampling Hands-On Activity EGLE Geological Services Section & Fibertec Environmental Services</i>
2:20 PM	Networking Break - Sponsored by		
3:10 PM	<i>Installation of a Sub-Slab Depressurization System to Facilitate A Property Transaction in Western Michigan Michael Apgar - FTCH</i>	<i>Remediation of a Former Oil Well, Leaking into a Freshwater Lake Scott Pawlukiewicz - TRC Solutions, Dave Bandlow - EGLE RRD</i>	<i>Vapor Intrusion: Soil Vapor Point Installation and Sampling Do's and Don'ts Adam Richmond, Kalan Briggs, Mitch Wacksman (Arcadis)</i>
3:50 PM	<i>One Design Does Not Fit Every House: The Problems with Standardized Designs Tim Kinney, Doug Gatrell - GHD</i>	<i>Long Term Impact of Enhanced Anaerobic Bioremediation with Emulsified Vegetable Oil on Secondary Water Quality Michael R. Sieczkowski - JRW Bioremediation</i>	<i>Best Practices for the Collection of Passive Soil Gas Samples to Characterize Sites and Assess Vapor Intrusion Pathways Ryan Schneider (Beacon)</i>
4:30 PM	Closing Remarks		
4:40 PM	Break - Hotel Check-in - (Shuttle back to RAM from hotels available at 5:00 pm)		
5:30 PM	Dinner - Sponsored by		
6:30 PM	Student Poster Session - Students from Western, Central, Eastern, and Wayne State Universities		
8:00 PM - 12:00 AM	Social Event - Live Music by Waynesboro - Bonfires & Open Bar Sponsor(s) - EDR, Shuttle Transportation to and from Hotels in Houghton Lake		

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WEDNESDAY - JUNE 12, 2019

7:15 AM	Breakfast - Sponsored by ECT Inc.		
	Session A Volatilization to Indoor Air	Session B Emerging Contaminants - Innovations	Session C Tools & Technologies
8:00 AM	<i>Case Study - Rapid VI Pathway Assessment and Mitigation for a Large Industrial Manufacturing Plant Robert Ireson, Dave Regalbuto, Paul Hurst - Golder</i>	<i>Is Natural Attenuation Contributing to 1,4-Dioxane Concentration Decreases at the Gelman Site in Washtenaw County, Michigan? Leah Jackson, Lawrence Lemke - Central Michigan University</i>	<i>Complete Automated and Digital Low-Flow Sampling, Parameter Stabilization, and Data Management Dave Wardwell - Dune Technologies</i>
8:40 AM	<i>Trichloroethene Vapor Intrusion Conceptual Site Model Development and Mitigation in a Complex Geology Joel Parker, Jeff Crum - Hamp Mathews & Associates</i>	<i>The Promise and Pitfalls of In-Situ Carbon Immobilization of PFAS - Two Case Studies from Michigan Len Mankowski - Wood PLC</i>	<i>Demonstration of New Methods for Evaluating Vapor Intrusion Paul Nicholson, Todd McAlary - Geosyntec</i>
9:20 AM	Networking Break - Sponsored by		
9:50 AM	<i>Assessment and Improvement of Vapor Mitigation System Performance: Facts, Findings, and Common Sense Conclusions Pat Thornton - EGLE RRD, Michael O'Hearn - Wood PLC</i>	<i>Regenerable Resin Treatment Systems - Overview and a Case Study Brian Lowes - Haley & Aldrich</i>	<i>Demonstration of New Methods for Evaluating Vapor Intrusion (continued) Paul Nicholson, Todd McAlary - Geosyntec</i>
10:30 AM	<i>Vapor Intrusion Investigation and Mitigation at an Occupied Apartment Complex Jeff Crum - Hamp, Mathews & Associates, Mary Miller - EGLE RRD</i>	<i>North 34th Street PFAS Crisis/The Parchment Water Response - Coordinated Response to a Water Emergency David Harn and Nate Whitmyer - EGLE RRD</i>	<i>Regenesis - Land Science Installation of Geo-Seal Vapor Intrusion Barrier</i>
11:20 AM	<i>You're Uniquely You. Site-Specific VIAC is too! Shane Morrison, PhD. - EGLE RRD</i>	<i>A Study of the Effectiveness of Colloidal Activated Carbon as an in-situ Treatment to Mitigate PFAS Migration in Groundwater at a Michigan Air National Guard Site Patricia Lyman - DMVA, Ryan Moore - Regenesis</i>	<i>Developing an Effective Vapor Intrusion Mitigation System Operations, Maintenance and Monitoring Plan that will Ensure Efficient Performance Thomas Hatton - Clean Vapor</i>
12:00 PM	Lunch - Sponsored by		
1:00 PM	<i>Maximizing ROI for More Efficient Big Building Mitigation Rachael Saari, Mitch Wacksman - Arcadis</i>	<i>A Case Study on PFAS Removal from Landfill Leachate: Waterford Landfill Robert Reichenbach, Mala Hettiarchichi - Environmental Resource Group</i>	<i>Evaluation of the Vapor Intrusion Pathway at a Non-Residential Facility Using VaporSafe™ Continuous Air Monitoring Darby Litz, Stacey Metz - TRC Solutions & Blayne Hartman - Hartman Environmental</i>
1:40 PM	<i>Modified Active Gas Source Zone Identification Tool - You Win Some & You Lose Some Michael Coram GHD</i>	<i>Characterizing LNAPL as a Source of Emerging Contaminants Alex Villhauer & Patrick Curry - Arcadis</i>	<i>Real-Time Vapor Monitoring of Worker and Offsite Ambient Air During a Source Area Removal and Waste Characterization at a Solvent Contaminated Site, Former Avionics Specialties Site, Earlysville, Virginia Michael Colvin, Michael Ingersoll, Christopher Carew - FTCH</i>

WEDNESDAY - JUNE 12, 2019 - Continued

2:10 PM	<i>Perspectives on Mitigation Systems</i> Matt Williams - EGLE RRD	<i>Innovations in Visualizing Conceptual Site Models: Two Case Studies</i> Alicia Revezzo - Geosyntec	<i>Successful Vapor Mitigation via Floor Coating Material and Engineering Controls - Potential Pitfalls and Lessons Learned</i> Suzi Rosen, Anthony Bottecchia - Partner Engineering
3:00 PM	Networking Break - Ice Cream Social - Sponsored by Test America		
3:30 PM	<i>Question and Answer Panel</i> Michigan Department of Environment, Great Lakes, and Energy <i>Volatilization to Indoor Air, Emerging Contaminants, Statutory Amendments & More...</i>		
4:30 PM	Closing Remarks & Raffle Drawing		