



REGENESIS Presentation Program

International Symposium on
Bioremediation and Sustainable
Environmental Technologies

BATTELLE



Tuesday, May 9th

Platform Presentations

A1 Advances in Amendment Formulation



Solid Phase Colloidal Organic Amendments Promote Sustained Biodegradation in Permeable Reactive Barriers

8:50 AM

Paul Erickson, PhD, Director of Research & Development



The *In Situ* Treatment of Dissolved BTEX and Gasoline Residues Using Micro Activated Carbon

Rick McGregor, President InSitu Remediation Services, Ltd.



E2 Sustainable Remediation Assessment Tools



Sustainable PFAS Remediation: Comparing the Environmental Impact of Enhanced Attenuation Using Colloidal Activated Carbon to Pump and Treat

11:20 AM

Gareth Leonard, Managing Director, Europe



B2 Innovative Treatment Technologies for PFAS In Situ



Colloidal Activated Carbon to Enhance Natural Attenuation of PFAS at Airports Worldwide: A Multiple Site Review

12:10 PM

Maureen Dooley, Vice President, Industrial Accounts



PFAS Source Zone Management with Novel Immobilization Methods and Materials

12:35 PM

Paul Erickson, PhD, Director of Research & Development



C2 Remediation and Management of Petroleum-Hydrocarbon Contaminated Sites



Treating and Pretreating Hard to Access Hydrocarbon Contamination in Underground Storage Tank Basins and Utility Corridors with Colloidal Activated Carbon

1:00 PM

Todd Herrington, Global PetroFix Product Manager



Learning Labs



Multi-Site Trend Analysis and Remedial Design Implications of Passive Flux Data from PFAS-, CVOC- and Hydrocarbon-Contaminated Sites

10:30 AM - 10:55 AM

Chris Lee, Sr. Design Specialist



Tuesday, May 9th

Poster Presentations

5:45–7:00 PM

A1 Advances in Amendment Formulation



Sulfidated ZVI Accelerates Bioremediation in Permeable Barriers and Source Zones

John Freim, PhD, Director of Materials Science and ZVI Product Manager



A3 Enhanced Methods for Biodegradation/Biotransformation of Organic and Inorganic Contaminants



Contaminant Degradation within Colloidal Activated Carbon Treatment Zones: A Multi-Site Review to Demonstrate Complete Destruction and Reduction of CVOCs Contaminants Using Multiple Lines of Evidence

Carlos Ortiz, South Central District Technical Manager



A5 Optimization of Classical Bioremediation Technologies



Chlorinated Solvent Plume Reduced >95% via *In Situ* Combined Remedy Leading to Long-Term VI Risk Reduction at State-Led Project

Joel Parker, Principal Engineer, Hamp Mathews & Associates



A7 In Situ Bioremediation Applications



Combined Remediation Technologies Pave the Way for the Rapid Redevelopment of a Legacy Brownfield Site

John Freim, PhD, Director of Materials Science and ZVI Product Manager



A Combined Remedy of *In Situ* Chemical Oxidation and Aerobic Bioremediation to Treat the Emerging Contaminant Tetrahydrofuran

Presented by Ryan Moore, Sr. Technical Manager and PFAS Program Manager, on behalf of Owen Miller



B1 Fate and Transport of PFAS



Using a Multi-Phase, Finite-Difference, Multi-Species Model that Accommodates Dynamic Sorption and Competitive Interactions to Interpret and Predict PFAS Fate and Transport

Presented by Keith Gaskill, Sr. Design Specialist and Technical Services Group Coordinator, on behalf of Jeremy Birnstingl, PhD



Tuesday, May 9th

Poster Presentations (Continued)

5:45–7:00 PM

B2 Innovative Treatment Technologies for PFAS In Situ



PFAS Concentrations in Groundwater Reduced to Below Drinking Water Standards at a Former Michigan Manufacturing Facility

Angel Cuellar, Sr. Geologist, Tetra Tech, Inc.



Immediate and Effective PFAS Treatment in Bedrock Aquifer at a Hazardous Sites Clean-Up Act Site

Presented by Barry Poling, Regional Vice President, on behalf of Glenn Iosue



C2 Remediation and Management of Petroleum-Hydrocarbon Contaminated Sites



Treatment Success and Application Insights with Colloidal Activated Carbon for Hydrocarbon Plumes: A Multi-Site Review

Todd Herrington, Global PetroFix Product Manager



D1 Innovative Tools for Evaluating Vapor Intrusion Risk



Best Practices for Quality Assurance/Quality Control for Passive Barrier Installations at New and Existing Buildings

Presented by Jordan Morgan, South Central District Technical Manager on behalf of Hieu Nguyen



D3 HRSC and Conceptual Site Models



Improving Remedial Designs Using Passive Flux Meter Studies and Plume Dimension Analysis

Chris Lee, Sr. Design Specialist



Wednesday, May 10th

Platform Presentations

B4 Activated Carbon-Based PFAS Treatment Technologies



Using Colloidal Activated Carbon to Reduce PFAS and PCE Concentrations in Groundwater to below Michigan's Drinking Water Limits for over Four Years

8:00 AM

Ryan Moore, Sr. Technical Manager & PFAS Program Manager



The *In Situ* Treatment of TCE and PFAS-Impacted Groundwater Using Anaerobic Bioremediation, Polylactate Ester, and Colloidal Activated Carbon

Rick McGregor, President, IRSL



Large Full-Scale *In Situ* Remediation of Groundwater with High Concentrations of PFAS Using PlumeStop®

Rebecca Mora, Sr. Technical Leader, AECOM



Longevity of Colloidal Activated Carbon for *In Situ* PFAS Remediation at AFFF-Contaminated Airport Sites

Grant Carey, PhD, President, Porewater Solutions



A5 Optimization of Classical Bioremediation Technologies



In Situ Treatment for Hexavalent Chromium Using ISCR Enhanced Bioremediation in Saturated Clay Soils Results in No Further Action

9:15 AM

Presented by Keith Gaskill, Sr. Design Specialist and Technical Services Group Coordinator, on behalf of Owen Miller



C5 Impacts of Mixed Contaminants on Biodegradation



Treatment Technology Considerations at Plating Facilities Commingled with PFAS and Chromium-6

5:10 PM

Keith Gaskill, Sr. Design Specialist and Technical Services Group Coordinator



Learning Labs



Multi-Site Trend Analysis and Remedial Design Implications of Passive Flux Data from PFAS-, CVOC- and Hydrocarbon-Contaminated Sites

4:20 PM - 4:45 PM

Chris Lee, Sr. Design Specialist



Wednesday, May 10th

Session Chairs

13A Bioremediation of Munitions Constituents



Paul Erickson, PhD
Director of Research & Development



Rula Anselmo Deeb, PhD
Senior Principal, Geosyntec



B4 Activated Carbon-Based PFAS Treatment Technologies



Scott Wilson
President and CEO, REGENESIS



Jack Sheldon
Senior Professional, Antea Group



Poster Presentations

5:45–7:00 PM

B9 Emerging Contaminants: Detection, Degradation, Fate and Transport



Testing of a Long-Term Solution for Low-Level 1,2,3-TCP in a Deep Aquifer Using Colloidal Activated Carbon with Monitoring Natural Attenuation

Presented by Chris Lee, Sr. Design Specialist on behalf of Andrew Kiggen



D9 Tools for Site Assessment and Bioremediation Monitoring



Long-Term Performance of a Carbon Barrier Evaluated through Integrated Use of Aspect Ratio, Passive Flux and Modelling Analytical Tools

Presented by Keith Gaskill, Sr. Design Specialist and Technical Services Group Coordinator, on behalf of Jeremy Birnstingl, PhD



Thursday, May 11th

Platform Presentations

C6 Bioremediation
Case Studies



Improving Performance of Abiotic Destruction
and Anaerobic Bioremediation at Multiple Sites
through the Use of Passive Flux Meters

Chris Lee, Sr. Design Specialist



8:00 AM

E8 Advances in Tools and Techniques
for Assessing MNA



Leveraging a Robust Microbial Profile for an MTBE
Sorption Biobarrier

Jack Sheldon, Senior Professional, Antea Group



Session Chairs

E8 Advances in Tools and
Techniques for Assessing MNA



Rick Gillespie
Senior Vice President, North America



Kate Clark, PhD
VP of Global Laboratory Services, Microbial Insights





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