

Day One, Thursday, Nov. 7, 2019**Opening Session**

9:00-10:00

Welcome from Mike Eastman, FRC Conference Manager**A Word from the Chair**

Jim Langenbach, PE, BCEE, Senior Principal, Geosyntec Consultants Inc., Titusville

Keynote Address: NASA Kennedy Space Center's Remediation Program, a Perspective on 25 Years of Challenges, Innovations and Progress

Michael J. Deliz, PG, Remediation Program Manager, NASA John F. Kennedy Space Center

Session 2: Advancing the Understanding of PFAS and Emerging Contaminants

10:30-12:00

PFAS: Navigating Challenges, Best Practices and Current Affairs

Karla Buechler, Corporate Technical Director, Eurofins TestAmerica, Sacramento, CA

A Vertical Recirculation Well System for In-Situ Removal of PFAS

William Kerfoot, PhD, Principal, Kerfoot Technologies Inc., Mashpee, MA

Cometabolic Treatment of Emerging Groundwater Contaminants

Paul Hatzinger, PhD, Director, Biotechnology Development and Applications Group, APTIM Federal Services LLC, Lawrenceville, NJ

PFAS in Groundwater – Remediation Options

Viraj deSilva, PhD, PE, BCEE, Wastewater Treatment Director, SCS Engineers, Tampa

PFAS Sites: How Uncertainties in Site Identification Influence Sampling Design and Remediation Strategies

Rosa Gwinn, PhD, PG, Resource & Technology Manager, AECOM, Germantown, MD

Analytical Review of High Concentration PFAS Treatment Projects

AnnieLu DeWitt, Remediation Technology Business Development Manager, Environmental Services, Clean Harbors, South Portland, ME

12:00 - 1:00

Day One Luncheon Sponsored by **Advanced Environmental Laboratories****Session 3: Refining Conceptual Site Model Strategies**

1:00 - 3:00

Building Useful Conceptual Site Models Using 3D Modeling Technology

Jim Depa, Senior Project Manager, St. John-Mittelhauser & Associates, a Terracon company, Chicago, IL

New Geophysical Imaging Tool for Environmental Site Assessment

David Harro, PG, Director Geologic Services, G3 Group, Odessa

Changing the Perspective on 30 Years of Granularity with HRCD

Robert Schatzman, PG, Senior Project Manager, LS Sims and Associates Inc., Rockledge

Lance Robinson, PE, Chief Technology Officer, EN Rx Inc., Parrish

Vapor Intrusion: How Many Vapor Samples Are Enough?

Jim Fineis, PG, President, Total Vapor Solutions, Alpharetta, GA

Chemical Speciation: Insights for Site Assessment and Closure Strategies

Nick Barnes, PE, Project Engineer, HSW Engineering Inc., Tampa

Zeke He, PhD, PE, Environmental Engineer, HSW Engineering Inc., Orlando

Chlorinated Solvent Forensics: Applying Multiple Lines of Evidence

Joshua Richards, PG, CHMM, Program Manager, Pace Analytical Services, Indianapolis, IN

Concurrent Session 4A: Speed Talks

3:30 - 5:00

Well Flow Dynamics During Groundwater Sampling: A Comparison of Purge and Passive Sampling Approaches

Sanford Britt, PG, CHG, Sr. Hydrogeologist, QED Env. Systems, Dexter, MI

Site Assessment Techniques with Vapor Pin

Laurie Chilcote, Managing Director, Vapor Pin Enterprises, Plain City, OH

Lead Remediation Using Regensis' PetroFix

Wm. Gordon Dean, PE, VP, Advanced Env. Technologies LLC, Tallahassee

Zero-Valent Iron Nanoparticles for In-Situ Groundwater Remediation

Patrick Randall, PE, Vice President, Hepure, Hillsborough, NJ

Pit Bottom Emplacement of Self-Activated Persulfate to Polish Excavation Remedy

Mark Smith, Senior Field Manager, EHS Support, Tallahassee

Significant Development Improvements for Horizontal Wells Which Facilitate Additional Capabilities

Wesley Wiley, PG, Senior Geologist, EN Rx Inc., Parker, CO

Real-Time Data through Horizontal Soil Sampling

Michael Sequino, Principal Engineer, Directional Technologies, Miramar Beach

Horizontal Directional Well Installation for Sub-Slab vapor Mitigation

David Bardsley, PG, Vice President, Ellingson DTD, Bellefonte, PA

Concurrent Session 4B: Petroleum Cleanup Optimization

3:30 - 5:00

How to Estimate LNAPL Remediation Costs to Support Conditional Site Closure

Stephen Hanks, PE, Senior Engineer, Wood, Pensacola

Performance of a New Activated Carbon Amendment for Bioremediating Petroleum-Impacted Soils

Chad Northington, PE, Southeast District Manager, Regensis, Tallahassee

Best Value for the State: Identifying Non-Program Related Contamination at PRP Sites

Donna Beares, PG, Project Manager, Gannett Fleming, Jacksonville

Funding the Remediation of a Petroleum Contaminated Property to Facilitate Redevelopment

Scott Graf, PG, Principal, Environmental Department Manager, Terracon, Tampa

Integrating Multi-Technology Surfactant-Enhanced Bioremediation and Oxidation Approaches for Treatment of Petroleum Hydrocarbons

Dan Socci, Chief Executive Officer, EthicalChem, South Windsor, CT

In-Situ LNAPL Treatment Following Pipeline Transmission Rupture

William Brab, CPG, PG, Sr. Geologist, AST Environmental Inc., Midway, KY

5:00 Adjourn Day One

FRC 2019 Reception in Exhibit Hall

Day Two, Friday, Nov. 8, 2019

Day Two Opening Address

8:30 - 8:50

Welcome from Mike Eastman, FRC Conference Manager

Utilizing Florida Brownfield Resources to Improve Technical and Regulatory Outcomes, Avoid Consultant Negligence Claims and Increase Company Profitability

Michael Goldstein, Principal, The Goldstein Environmental Law Firm PA, Coral Gables

Session 5: Young Professionals

8:50 - 10:10

The Metabolic Miracle: A Bioremediation Refresher

Anthony Giannetti, Client Services Manager, Cascade, Philadelphia, PA

Expedited Site Rehabilitation of TRPH-Impacted Soils

Davis Lofton, PhD, EIT, AMASCE, Senior Staff Engineer, Geosyntec Consultants Inc., Houston, TX

ASCTLs, and Innovative Soil Management and Remediation Techniques in Golf Course Redevelopment

Sanaul Khan, Staff Professional, SCS Engineers, Boca Raton, FL

One Man's Wastewater is Another Man's Treasure: Water Reuse Options for a Hydraulic Control System

Jaclyn Vu, PE, Environmental Engineer, JEA, Jacksonville

Alexis Johnson, Senior Staff Engineer, Geosyntec Consultants Inc., Jacksonville

CVOC Contaminated Zone Remediation with the use of Zero Valent Iron and Bentonite

Peter Moretuzzo, PE, Project Manager, Geo-Solutions, St. Petersburg

What Does PFAS mean to You?

Kollan Spradlin, PE, CHMM, Professional Engineer, SCS Engineers, Tampa

Implementing Bioremediation to Address Trichloroethene Source Zones at a Legacy Hydraulic Containment Site

James Mills, MS, Senior Staff Professional, Geosyntec Consultants Inc., Tampa

Designing Away Common In-Situ Bioremediation Complications

Lydia Ross, MS, PE, EOS Remediation, Research Triangle Park, NC

Concurrent Session 6A: Remediation and Modeling Case Studies

10:30 - 12:00

ERH Remediation in Interstate Median

Kevin Novello, Project Manager, TRS Group, Longview WA

Leveraging Warm Water from Source Area Thermal Remedy for Combined

Biotic/Abiotic Degradation of CVOCs

Dan Bryant, PhD, PG, Director, Woodard & Curran, East Windsor, NJ

Effective Distribution of Emulsified Vegetable Oil in the Subsurface

David Alden, PE, Tech. Services Mgr., Tersus Environmental, Wake Forest, NC

Combined Remedy Treatment of Multi-Chemical Solvent Plume in

Fine-Grained, Low Permeability Sediments

William Brab, CPG, PG, Rem. Geologist, AST Environmental Inc., Midway, KY

The Use of MODFLOW to Design a Groundwater Extraction System for

MTBE Remediation

Brandon Poiencot, PE, Project Engineer, Golder Associates, Jacksonville

Concurrent Session 6B: Iron Amendment Treatment Technologies

10:30 - 12:00

One Permeable Reactive Zone, Two Years, 365 Feet and Complete Mass Flux Reduction by Biogeochemical Reductive Dechlorination

James Studer, PE, Principal Tech. Consultant, InfraSUR LLC, Albuquerque, NM

Shifts in Magnetic Susceptibility and Physical Trends of Experimental ZVI

PRBs Exposed to High c-VOC-Impacted Groundwater

Alexander Korff, Engineer, Prod. Dev., Hogan Environmental Solutions, Cary, NC

Optimization and Performance of ZVI Amendments for In-Situ Chemical and Biological Reduction

Gary Birk, PE, Managing Partner, Tersus Environmental Inc., Wake Forest, NC

Full-Scale Remediation of Subsurface Chromium Impacts with Multiple Media

Bob Kelley, PhD, Vice President, Hepure, Hillsborough, NJ

Remediation of Lakes, Rivers and Canals for Impacted Water Quality Using an Innovative Ferrate-Based Treatment System

Thomas Waite, PhD, PE, President, Ferrate Solutions Inc., Melbourne

12:00 **Day Two Luncheon** Sponsored by **The Goldstein Environmental Law Firm PA**

Concurrent Session 7A: Innovative Remedial Approaches

1:45 - 3:00

The Hybrid Remedial Approach

Sean Rome, Operations Manager, TRC Solutions, St. Augustine

Post-Hurricane Maria and Remediation Efforts to Address Chlorination/Non-

Chlorinated VOCs and 1,4 Dioxane Impacts at Puerto Rico Facility

Brad Pekas, PG, PE, Senior Engineer and Team Leader, Trihydro Corp., Tampa

A Simplified Approach to Closure of Legacy C&D Areas at Power Industry

Facilities – RBCA, Solid Waste Rules and the Old Dump Guidance

Ryan Tuttle, PG, Project Geologist, Geosyntec Consultants Inc., Tampa

Mitigation of Vapor Intrusion Preferential Pathways for a Challenging Industrial Building

Joseph Corsello, PE, Proj. Mgr., Sanborn, Head & Associates Inc., Boston MA

Concurrent Session 7B: In-Situ Oxidation Tools and Technologies

1:45 - 3:00

Combined ISCO and Stabilization/Solidification for Full-Scale Remediation of a Coal Tar Source Area

Jeff Roberts, MSc, Operations Manager, SiREM, Guelph, Ontario, Canada

Treating 1,4 Dioxane with Activated Potassium Persulfate

Brant Smith, PE, PhD, Tech. Apps. Mgr., ISCO, PeroxyChem, Philadelphia, PA

ISCO Generator for Continuous Production of Reactive Oxygen Species to

Remediate Soil and Groundwater – Ideal for PRB Applications

Jim Mueller, PhD, President, Provectus Env. Products Inc., Freeport, IL

Session 8: Annual Regulatory Panel

3:15 - 5:00

Moderator: Joe Applegate, PG, Senior Principal Hydrogeologist, Geosyntec Consultants Inc., Tallahassee

Speakers:

Natasha Lampkin, FCCM, FCCN, Program Administrator, Petroleum Restoration Program

Division of Waste Management, Florida Department of Environmental Protection, Tallahassee

Wilbur Mayorga, PE, Division Chief, Environmental Monitoring and Restoration Division, Miami-Dade County, Miami

Graham Witt, Team Leader, PRP Contract Management Team 5 (Northstar), Tallahassee

John Wright, PE, Chief Engineer, Petroleum Restoration Program

Division of Waste Management, Florida Department of Environmental Protection, Tallahassee