



The 30th Florida Remediation Conference **FRC 2025**

Moderator & Speaker Compendium

November 3-5, 2025
Rosen Centre Hotel
Orlando, Florida



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FLORIDA REMEDICATION CONFERENCE



FRC 50/50 Raffle

Winner Can Select to Take
Half the Pot in Cash
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Pappy Van Winkle 20 Year!



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Exhibit Hall at 6:30 pm at the
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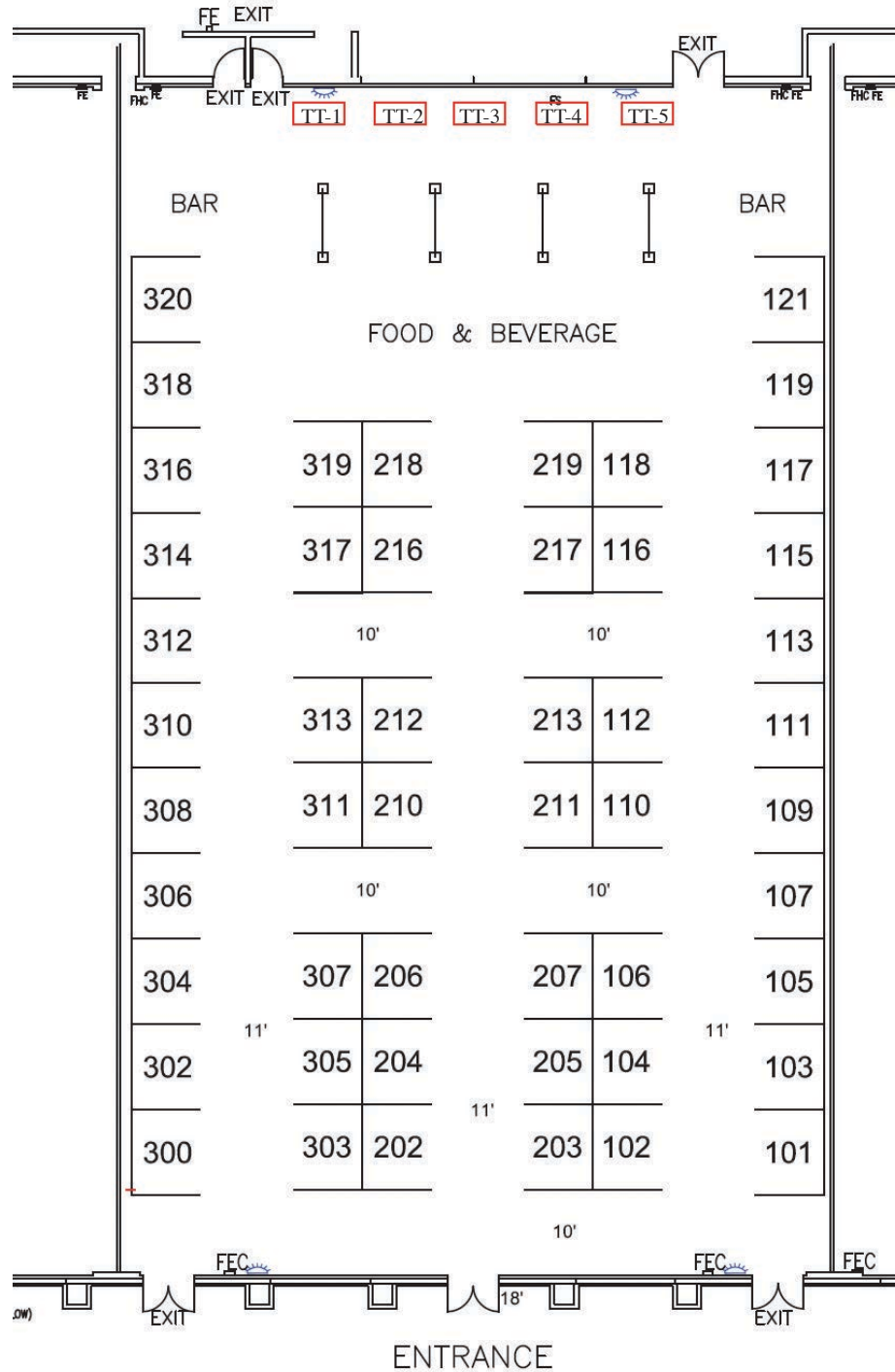


List of Exhibitors

Exhibitor	Booth #	
A-C-T Environmental & Infrastructural, Inc.	212	Lang Tool Co. 105
Action Environmental, LLC	TT-4	LiORA 300
Alliance for Central Florida Safety	PF	MK Environmental, Inc. 313
Alpha-Omega Training & Compliance, Inc.	101	Newterra 303
APTIM	213	Paragon Integrated Services Group TT-5
AST Environmental, Inc.	210	Petrotech Southeast, Inc. 211
Biotech Restorations of Florida	314	PFAS Forum PF
Cascade Environmental	116	Pine Environmental Services, LLC 217
CG Thermal, LLC	TT-2	Preferred Drilling Solutions, Inc. 304
Clean Earth, Inc.	110	PRM Filtration 121
Clear Creek Systems	117	RECON Outfitters, LLC 219
Cliff Berry, Inc.	103	REGENESIS 218
Connley & Associates, Inc.	TT-3	Remedial Systems Integrated, LLC 216
Crystal Clean	312	Rig Source LLC 204
eFACTOR3, LLC	317	SGS North America, Inc. 307
EN Rx, Inc.	106	Southern Waste Information eXchange, Inc. PF
Enviroprobe Services, Inc.	305	Specto Technology 308
ES Integrated	319	Summit Drilling, LLC 316
ESD Waste2Water, Inc.	318	Terracon 104
ETEC, Inc.	118	Tetrasolv Filtration 102
Evonik	306	The Drone Forum PF
Florida Association of Environmental Professionals (FAEP)	310	US Environmental Rental Corp. 311
Florida Association of Professional Geologist (FAPG)	TT-1	Vapor Pin Enterprises, Inc. / Enviro-Equipment, Inc. 207
Geo-Solutions, Inc.	320	Walker-Hill Environmental, Inc. 107
Geo-Technology Associates, Inc.	113	WSP USA, Inc. 112
GEOPROBE SYSTEMS®	202	
Geotech Environmental Equipment, Inc.	119	TT = Table Top
Griffin Fluid Management	206	PF = Prefunction Area
GSE, Inc.	205	
GWTT	302	
Hull's Environmental Services, Inc.	109	
Hydradry, Inc.	111	
In-Situ	115	
JRW Bioremediation, LLC	203	

Florida Remediation Conference

November 3-5, 2025



Agenda

Monday, November 3, 2025

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11:00 am - 5:00 pm	Charity Golf Tournament - Shingle Creek Golf Club	
3:00 pm - 7:00 pm	Conference Registration Open - Rosen Centre Hotel	(Registration Desk 1)
3:00 pm - 7:00 pm	Exhibitor and Poster Presentation Setup	(Grand Ballroom C)
4:00 pm - 5:30 pm	Pre-Conference Workshop: A Magnificent Evolution of Florida's Brownfields Program – Expansion and Acceleration of Remediation, Redevelopment, and Reuse Under HB 733	(Grand Ballroom A)
	Moderator: Michael R. Goldstein, Esq. , Managing Shareholder, The Goldstein Environmental Law Firm, P.A.	
	Panelists: Howard Nelson, Esq., Partner, Head of Environmental Practice, Bilzin Sumberg Kerri Barsh, Esq., Co-Chair Environmental Practice, GreenbergTraurig Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection (Invited) Wilbur Mayorga, Chief, Pollution Remediation Section, Miami-Dade County DERM (Invited)	
5:30 pm - 7:00 pm	Welcome Reception	(Pool Deck)

Tuesday, November 4, 2025

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7:45 am - 7:00 pm Registration Open (Registration Desk 1)

7:45 am - 8:30 am Continental Breakfast – Exhibit Hall (Grand Ballroom C)

8:30 am - 10:00 am **FRC 2025 Opening Session** (Grand Ballroom A)
Rewriting the Rules: Institutional Controls,
PFAS Accountability & Florida's Brownfields Surge

Welcome: **Eugene (Gene) Jones**, Executive Director, Southern Waste Information eXchange, Inc.

Moderator: **Robyn Neely, Esq.**, Partner, Chair, Environment and Natural Resources Practice, Akerman LLP

Panelists:

Laurel Lockett, Esq., Shareholder, Carlton Fields, P.A.

Michael Stag, Esq., Partner, Stag Liuzza, LLC

Howard Nelson, Esq., Partner, Government Relations & Land Development, Bilzin Sumberg

Michael Goldstein, Esq., Managing Shareholder, The Goldstein Environmental Law Firm, P.A.

Michael Larson, Esq., Partner, Akerman LLP & President-Elect & Board Member, Florida Brownfields Association, Inc.

10:00 am - 10:30 am Refreshment Break – Exhibit Hall (Grand Ballroom C)

10:30 am - 12:00 pm **Session I:** (Grand Ballroom A)
AI in Remediation: From Business Strategy to Site Solutions

Moderator: **Eugene (Gene) Jones**, Executive Director, Southern Waste Information eXchange, Inc.

Panelists:

Vincent Hunt, Founder & CEO, The Bureau of Creative Intelligence

Peter Lakanen, President, Platinum Web Development

Brendan Brown, PWS, Principal Scientist and Nature-based Solutions Discipline Leader, CDM Smith

Jevins Waddell, P.Tech., Eng., President & Co-Founder, TRIUM Environmental Inc.

Tuesday, November 4, 2025 (Continued)

=====

12:00 pm - 1:00 pm Lunch (Grand Ballroom B)

1:00 pm - 3:00 pm **Session II:** (Grand Ballroom A)
**PFAS Management and Emerging Contaminants:
Regulatory Trends, Treatment Advances, and Global Applications**

Moderator: **Dr. Kesavalu M. Bagawandoss, Ph.D., J.D.**, Industries &
Environment Technical Director North America, SGS North America, Inc.

***The Regulation of Emerging Contaminants:
Keeping Your Eye on the Ball***

Nicholas Albergo, P.E., Senior Advisor, GHD Services

***PFAS Treatment Available Today an Overview of Available
Technologies***

Phil Farina, Midwest Business Development Manager,
Clear Creek Systems

***Colloidal Activated Carbon Used to Reduce PFAS Risk in
Groundwater at Airports Worldwide: A Multiple Site Review***

Patrick Singer, Southeast District Manager, REGENESIS

PFAS Destruction in Various Medias

Susan Sitkoff, P.G., Capital Improvement Plan Division Environmental
Manager, City of Orlando,
Ryan Joslyn, P.E., Engineer, Geosyntec Consultants, Inc. and
Raj Melkote, Chief Technology Officer, 374Water

3:00 pm - 3:30 pm Refreshment Break - Exhibit Hall (Grand Ballroom C)

3:30 pm - 5:30 pm **Session III:** (Grand Ballroom A)
**Innovative Remediation Strategies for Complex
Contaminant Challenges**

Moderator: **Chad Northington, P.E.**, Senior Project Manager, Terracon

***Remediation of Historic Creosote Wood Treating Facility through
Implementation of Corrective Measures at JEA's Kennedy
Generating Facility South Parcel***

Merrilee Palcic, P.E., JEA

Tuesday, November 4, 2025 (Continued)

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3:30 pm - 5:30 pm

Session III: (Continued)

(Grand Ballroom A)

An Innovative Remedial Approach for Petroleum Hydrocarbons When Considering Impacts on Business Operations – A Case Study

Brett Bohentin, Project Manager, APTIM

Permeable Reactive Barriers: In-Situ Treatment Strategies to Mitigate Nitrate and Phosphate Discharge to Surface Water

Dr. Michael Lee, Ph.D., Vice President of Research and Development,
Terra Systems, Inc.

Reductive Dechlorination with Concurrent Sequestration of PFAS and 1,4-Dioxane in a Large Commingled Plume at a Former Manufacturing Facility

Derek Pizarro, CPG, Senior Remediation Geologist,
AST Environmental, Inc.

5:30 pm - 7:00 pm

Poster Reception - Exhibit Hall
(50/50 Raffle Drawing at 6:30 pm)

(Grand Ballroom C)
Raffle Proceeds to Benefit:



50/50 Raffle

**Winner Can Select to Take
Half the Pot in Cash
or a Bottle of
Pappy Van Winkle 20 Year!**



One Ticket \$5
Five Tickets for \$20

Drawing to take place in the
Exhibit Hall at 6:30 pm at the
Tuesday Night Reception



Wednesday, November 5, 2025

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7:45 am - 12:00 pm	Registration Open	(Registration Desk 1)
7:45 am - 8:30 am	Continental Breakfast - Exhibit Hall	(Grand Ballroom C)
8:30 am - 10:00 am	Session IV: DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup Program	(Grand Ballroom A)
	Panelists (Invited): Mubeen Darji, P.E., Environmental Administrator, Waste Site Cleanup Section, Florida Department of Environmental Protection Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection James Treadwell, P.E., Professional Engineer II, Petroleum Restoration Program, Florida Department of Environmental Protection Billy Hessman, P.G., Program Administrator, Petroleum Restoration Program, Florida Department of Environmental Protection	
10:00 am - 10:30 am	Refreshment Break - Exhibit Hall	(Grand Ballroom C)
10:30 am - 12:00 pm	Session V: Common Practices for Addressing Contamination in FDOT Right-of-Ways	(Grand Ballroom A)
	Panelists: Kathleen P. Toolan, Special Counsel for Environmental Affairs, Florida Department of Transportation Maria Salgado, District Contamination Impact Coordinator, Florida Department of Transportation Aja Stoppe, Environmental Specialist, Florida Department of Transportation John Cibotti, Occupational Safety & Health Manager, Florida Department of Transportation	
12:00 pm	Adjourn	

2025 Poster Presentations

Posters Listed Alphabetical Order by Presenter's Last Name

Ultrashort Chain PFAS and their Implications

Dr. Kesavalu M. Bagawandoss, Ph.D., J.D., Industries & Environment Technical Director North America, SGS North America, Inc.

Abstract:

PFAS measurements have posed a complex problem due to the number and chemical diversity of PFAS, coupled with unavailability of standards and methods for analysis. Most current PFAS methods measure between 2-80 long ($\geq$ C7 carbon chain length) and short-chain (C4-C7) PFAS. However, ultrashort fluorinated compounds ($<$ C4) such as trifluoroacetic acid (TFA) have emerged as an issue due to their ubiquitous use as refrigerants, battery fluids and more. As the number of PFAS extend from 3000 to 6000 PFAS to greater than seven million depending on definition and inclusion of ultrashorts, these subset of PFAS need further attention. There are no standard methods for ultrashort PFAS due to their incompatibility with current workflows. In this presentation, we will discuss multiple aspects of ultrashort PFAS starting with the differential definition based on jurisdiction (OECD/Canada vs. US). We will detail a new SGS-developed method for ultrashorts extending on our work in developing and validating 1633 Draft for the US EPA and DoD (Department of Defense). We will discuss sources and occurrence of these ultrashorts. This work fills a gap on the occurrence, measurement and issues around ultrashort PFAS. The ASTM Work Item 88987 submitted by SGS North America will be discussed.

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AMP Up Your Leadership: Bold Strategies to Inspire, Influence, and Succeed

Emmanuel Buisson, Amp Your Life

Abstract:

Great leaders don't just manage—they inspire, influence, and drive real impact. In this high-energy keynote, award-winning international speaker, Emmanuel shares transformative leadership strategies that empower professionals to lead with confidence and clarity. Having shared the stage with icons like Eric Thomas, Inky Johnson, and John Maxwell, I bring a unique blend of real-world experience, mindset mastery, and actionable strategies to help leaders break through limitations and step into their full potential. This talk goes beyond theory—it's a call to action. Attendees will discover how to develop a leadership mindset, build influence, and create a culture of success within their teams or businesses. Whether leading a startup, corporation, or personal brand, this session delivers the tools to AMP up leadership, communication, and impact.

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Challenges with Redevelopment of Former Dumps and Lakefills Presents

Somshekhar Kundral, PE, BCEE, Vice President, Project Director, SCS Engineers, Inc.

Abstract:

The redevelopment of former dumps and lakefills presents unique environmental, geotechnical, and regulatory challenges, especially in regions like South Florida where land availability is limited and development pressure is high. These sites often involve complex legacy conditions such as uncontrolled waste placement, variable geotechnical conditions, and contamination of soil and groundwater. Despite these constraints, successful redevelopment is possible with careful planning, regulatory coordination, and integrated engineering strategies. This abstract outlines the key challenges and best practices in redeveloping these properties, including the design and implementation of landfill gas management systems to address explosive methane concentrations, groundwater remediation and containment

strategies, and stormwater design that must account for waste limits, plume zones, and regulatory constraints. Ground improvement methods such as deep dynamic compaction, surcharging, and pile foundations are essential to support long-term structural performance over degrading waste. Additionally, redevelopment must meet the local or state closure criteria including adequate cover, gas management, and groundwater and stormwater control. The integration of development features (e.g., buildings, roads, liners) as part of the closure system can offer regulatory and cost advantages when designed appropriately. Drawing from active redevelopment projects on dumps and lakefills, this abstract demonstrates how coordinated environmental management, stakeholder trust, and innovative engineering can transform former waste sites into economically productive, community-enhancing developments. These projects not only address legacy liabilities but also create jobs, increase tax revenue, and reintegrate long-neglected land into the urban fabric.

=====

In-situ Remediation of Contaminated Sediments, Wetlands, and Soils

Dr. Charles Menzie, Principal Scientist, Exponent

Abstract:

Over the past two decades there have been several developments in in-situ remediation of soils and sediments for petroleum hydrocarbons (including PAH compounds), PCBs, dioxins, and metals (especially lead and arsenic). In-situ treatment amendments have included activated carbon (granular and powdered), organoclay, highly concentrated microbial inoculants for bioremediation, and geochemical modifications for reducing metal bioavailability. This paper provides an overview of the developments using case studies for PCBs, dioxins, and lead. In-situ remediation for PFAS in soils and sediments is relatively new, and the presentation will provide a status. Because in-situ remediation involves a range of considerations including addressing potential for adverse impacts and addressing factors affecting efficacy, the utility of in-situ remediation methods for soils and sediments will be presented within the broader context of remedial decision-making as laid out by the Interstate Technology and Regulatory Council (ITRC).

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A Breath of Fresh Air—How Air Monitoring is Helping Transform a Marine Brownfield into a Hub for Green Energy

Paul Pickering, VP Global Strategic Accounts, Aeroqual

Abstract:

The South Brooklyn Marine Terminal (SBMT) is undergoing a Brownfield Cleanup Program (BCP), which involves redeveloping the derelict, contaminated port to create a world-class hub for offshore wind operations on the East Coast. It will become the largest dedicated port facility for offshore wind staging and maintenance in the United States. The new SBMT will help create hundreds of jobs, generate billions of dollars in economic activity for the city, state, and region, and potentially provide wind power to millions of homes and businesses. We showcase challenges, solutions, and lessons learned from a well-executed air monitoring program that complies with state guidelines and supports the cleanup for one of the nation's most ambitious renewable energy projects. As a BCP-designated site, the project must comply with local regulatory guidelines, including implementing a site-specific Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP) during remediation activities. The HASP and CAMP establish procedures to protect on-site workers and residents, including continuous monitoring of airborne contaminants of concern and measures to suppress dust and odor. We present the site's history and investigative findings, the remedial cleanup design, and how Tetra Tech leveraged next-gen air monitoring technology to overcome technical challenges and streamline compliance. Lessons from the case study inform how technological advances can resolve power and data issues, apportion off-site marine and land-based contaminant sources, cost-effectively target mitigation measures, and maintain data hygiene and defensibility on large brownfield sites.

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Chlorinated Solvent Daughter Product Management and Expedited Remediation

Derek Pizarro, Senior Product Manager, Remediation of Recalcitrant and Emerging Groundwater Contaminants, AST Environmental, Inc.

Abstract:

Chlorinated volatile organic compounds (CVOCs) are common contaminants that tend to persist in the subsurface. Daughter products are generated where an electron donor is introduced or where sufficient natural organic carbon is present in the aquifer. This generation of daughter products- incomplete sequential reductive dechlorination, can create groundwater or soil vapor conditions that are more serious than even the parent compound(s). For sites where either perchloroethylene (PCE) or trichloroethylene (TCE) is the parent compound, the degradation products are primarily cis-1,2-dichloroethylene (DCE) and/or vinyl chloride (VC). For source areas, significant daughter product concentrations can be generated and can persist for extended periods of time, even decades; the site exists in a near static or “stalled” remediation phase. There are various reasons why daughter products do not degrade naturally or post-enhanced reductive dechlorination (ERD) remediation. This poster depicts the use of reactant mixtures that restart the sequential dehalogenation process. Examples from three sites are used in graphic format with a discussion of the technology and how it finished the process in situ: 1) elevated parent compounds relative to daughter compounds, 2) elevated daughter compounds relative to parent compounds, and 3) significant saturated soil mass (DNAPL).

=====

Natural Source Zone Depletion and the Activated Carbon Remedy: Friend or Foe

Derek Pizarro, Senior Product Manager, Remediation of Recalcitrant and Emerging Groundwater Contaminants, AST Environmental, Inc.

Abstract:

Natural Source Zone Depletion (NSZD) is a term of art that describes those processes that act to physically redistribute LNAPL to the aqueous or gaseous phase as well as processes that biologically diminish the contaminant source over time. In practice, NSZD is rarely employed as the sole remedy but is often a polishing step that follows one or more active remedies. Some active remedies are more supportive of NSZD than others. We will demonstrate that carbon-based injectates particularly support NSZD by presenting field data and laboratory showing that carbon-based injectates reduce LNAPL and provide data demonstrating that activated carbon facilitates biodegradation. We will further demonstrate that contaminants absorbed into the microporous structure of carbon are bioavailable and that biodegradation regenerates the adsorption capacity of the activated carbon. Thus, redistributing LNAPL into the carbon’s pore structure is not limited by its initial adsorption capacity. Therefore, activated carbon supports a continuing, physical redistribution of LNAPL and supports biodegradation. A laboratory study, employing various carbons, blends of commercially available microorganisms purported to degrade petroleum hydrocarbons, and numerous supplements and substrates, was structured to characterize the effects of these elements on gasoline and diesel LNAPL degradation. Three different controls were used to evaluate experimental losses and provide performance profiles for changes due to simple absorption by the activated carbon. GC/MS was used to quantify the products of LNAPL degradation. The data was then used to derive overall NAPL and compound-specific degradation rates. Field data illustrating these same principles will be presented. The test program was structured to examine the individual carbons with the same set of organisms and substrates. The data demonstrate that organic compounds absorbed into the microporous structure of carbon are bioavailable. Extraction of absorbed fuel constituents from the carbon demonstrates LNAPL degradation. A proposed mechanism for LNAPL degradation is supported by the data. After applying a carbon-based injectate remedy, NSZD is supported through continued LNAPL redistribution and biodegradation.

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Mitigating LNAPL Migration to Adjacent Surface Water Bodies Using Regenerative PRBs

Derek Pizarro, Senior Product Manager, Remediation of Recalcitrant and Emerging Groundwater Contaminants, AST Environmental, Inc.

Abstract:

Background/Objectives:

At active terminal sites, petroleum sheening may be observed on adjacent waterways. Light non-aqueous phase liquid (LNAPL) seeping through soil and beneath bulkheads (seawalls) are attributed to the sheen. Many sites have installed, or attempted, LNAPL recovery (sumps) along the seawall, which remove a substantial portion of LNAPL volume. However, in many cases, sheening continues with seasonal groundwater fluctuation, infiltration events, or at low tides. Seep locations do not always correlate to delineated LNAPL presence (wells, sumps) due to historic fill, geologic depositional setting, or bulkhead age and integrity. Regardless of existing or planned remedial activities, plume bisection is typically considered to eliminate seepage and discharge to water bodies. A permeable reactive barrier (PRB) installed via direct push technology (DPT) using a bioremediation platform with an intrinsic capture mechanism (activated carbon) is the most appropriate choice in many cases, as this type of biobarrier can be augmented to prolong the lifespan or adjust with changes in plume and water body conditions, or if other remediation activities are taken offline, i.e. recovery systems.

Approach/Activities:

To optimize the performance of PRBs, especially in the presence of tidally influenced bodies of water, high-resolution site characterization (HRSC) is twinned with a Remedial Design Characterization (RDC) event (soil, groundwater, sump water) to adjust placement, depth of installation, and product design loadings. HRSC tooling, including— optical Image Profiler (OIP) and hydraulic profiling tool (HPT)- and traditional soil boring investigations are completed to horizontally and vertically characterize PRB target zone. HRSC tooling does not always line up well with soil analytical, and this data supports the use of HRSC to pare-down the area of installation (“refine the box”) before using physical samples and laboratory data to define and design remediation. A slurry composed of specific, facultative, petroleum-degrading microbes, activated carbon, electron acceptors, and nutrients are installed via DPT injection. Treatment of LNAPL is viable due to the adsorption capacity of the activated carbon system, providing immediate control of the LNAPL and biological regeneration of the activated carbon to allow continued trapping and treating to reduce LNAPL and control dissolved phase concentrations and discharge.

Results/Lessons Learned:

PRBs are effective in eliminating seeps, sheens, and discharge to water bodies. Continued monitoring will be necessary to pursue regulatory objectives, even site closure in some cases, while eliminating pathways for PHC migration using institutional and/or engineering controls. Ongoing performance monitoring and modeling of post-injection results evaluate the need for a second full scale injection and/or sulfate augmentation at end of service lifespan, or augmentation events—if planned, due to mass flux or limitations on formational uptake of injectate in one injection event.

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Infiltration Basin Fate and Transport in a Shallow Aquifer

Stephen Saller, P.G., GHD Services, Inc.

Abstract:

An out of use infiltration basin was monitored for groundwater water quality constituents and found to have detection levels over the limits. The local shallow aquifer was examined with rising and falling head tests, then characterized with Bouwer-Rice curve fitting for hydraulic conductivity and storage coefficients. Three conservative scenarios using highs in detection levels collected at different sampling events were constructed as plumes in MODFLOW MT3D and run as transient fate-transport simulations to evaluate risk to downgradient receptors. The models predicted each plume would dissipate to below limited levels prior to migrating to receptors due to advection/dispersion.

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Combined Colloidal Remedy Saves Time and Money

Patrick Singer, Southeast District Manager, REGENESIS

Abstract:

Groundwater contamination by chlorinated solvents poses significant environmental challenges, primarily in the speed in efficacy needed for projects such as property redevelopments. Regenesi has engineered a suite of technically advanced colloidal technologies based on activated carbon, sulfidated zero-valent iron (ZVI), and solid organics. These patented technologies offer a groundbreaking approach to accelerate effective chlorinated solvent remediation, characterized by co-mixability, superior distribution properties, high reaction speeds, and longevity. These amendments' co-application, flexibility and tunability enable precise chemical redox control. Colloidal activated carbon (CAC) immediately absorbs contaminants and prevents plume movement, effectively increasing residence time for action by other chemistries. Additionally, the prolonged reactive performance of Regenesi colloidal ZVI and colloidal organics can 'dial in' biotic and abiotic reduction chemistries where performance matters, such as barriers near property boundaries, roadways, etc. Historically, standard batch mixing and injection practices for in-situ remediation have faced challenges in vertical or horizontal dosing adjustments, limiting the flexibility of applying colloidal amendments. To address this, Regenesi pioneered the world's first in situ inline injection system, commercially known as IBIS, designed for highly flexible and precise dosing, with the ability to adjust point-by-point. This new system improves granular dosing of colloidal amendments while improving delivery efficiency by over 20% and reducing overall application costs. A pilot-scale permeable reactive barrier (PRB) using PlumeStop and S-MicroZVI was implemented to treat a fast-moving, high-concentration TCE, cis-1,2DCE, and VC plume. Within a month, the highest concentrations were reduced by 98%, and the single injection event maintained at least 99% reductions of chlorinated ethenes for 3.5 years in performance wells. Following extended post-application monitoring, full-scale implementation of colloidal carbon, ZVI, and donor will be performed in the Fall 2024 using the new IBIS system, with the most recent data to be shared in this presentation.

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Decarbonizing Soil Remediation: A Decade Long Comparison of Green House Gas Emission from Excavation v/s In Situ Stabilization in New York State

Harsh Sonar, Graduate Student, Cornell University

Abstract:

As global environmental priorities shift toward decarbonization, understanding the climate impacts of remediation activities is increasingly vital. This study presents a comparative assessment of greenhouse gas (GHG) emissions from two widely used soil remediation methods excavation and in situ stabilization (ISS) at eight contaminated sites in region 3 of New York State from 2014 to 2024, with an equal number of sites (n=4) employing each method. Remediation data were extracted from Final Engineering Reports (FERs) submitted to the New York State Department of Environmental Conservation (NYSDEC), detailing material volumes, equipment usage, transport logistics, and disposal activities. These inputs were processed using the U.S. EPA's Spreadsheet of Environmental Footprint Analysis (SEFA), a standardized tool well-suited for evaluating environmental impacts of remediation. The analysis revealed a substantial difference in emissions: excavation-based sites generated 0.16 U.S. tons of CO₂e per ton of remediated soil, while ISS-based sites emitted only 0.02 U.S. tons of CO₂e per ton of soil treated. This indicates that ISS reduces emissions by 0.14 U.S. tons of CO₂e per ton of soil remediated compared to excavation, representing an 90% reduction compared to excavation. Excavation in this study emitted 8x times more CO₂e than ISS under comparable conditions. This difference was statistically significant and consistent across varying assumptions, as confirmed through descriptive and sensitivity analyses. Unlike prior studies based on hypothetical models or single-site analyses, this research draws on a decade of real-world data, offering robust evidence for sustainable remediation decision-making. This work also aligns with New York State's Climate Leadership and Community Protection Act (CLCPA), which mandates a 40% reduction in GHG emissions from 1990 levels by 2030. Adoption of lower-carbon remediation techniques like ISS can support climate goals by minimizing emissions from equipment use, material transport, and disposal. Although regionally focused, the study's framework is scalable and offers data-driven insights for broader environmental policy and practice.

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Moderator and Speaker Profiles

(Moderators and Speakers Listed in Order of Appearance)

**A Magnificent Evolution of
Florida's Brownfields Program –
Expansion and Acceleration of
Remediation, Redevelopment, and
Reuse Under HB 733
WORKSHOP**



PRE-CONFERENCE WORKSHOP

A Magnificent Evolution of Florida's Brownfields Program – Expansion and Acceleration of Remediation, Redevelopment, and Reuse Under HB 733

Workshop Description:

Workshop Description:

The 2025 Florida Legislature enacted HB 733 with strong bipartisan support, was approved unanimously by the House and Senate, and became effective July 1, 2025. The legislation creates new opportunities for local governments to rehabilitate and redevelop a broader universe of municipally owned sites that would have previously been disqualified, establishes an easier pathway to Brownfields Program eligibility for Superfund sites, and, perhaps most importantly, authorizes an unprecedented right to achieve early closure of contaminated properties that were historically part of a larger contaminated site. This “early closure” feature of HB 733 will arguably bring about the most transformative change to Chapter 62-780, F.A.C., since the rule was first promulgated and has implications for how sites are defined, how assessments are conducted, how technical demonstrations need to be made, and the timing for when No Further Action Proposals should be submitted and Declarations of Restrictive Covenants recorded. There are significant financial advantages as well. Persons receiving Voluntary Cleanup Tax Credits pursuant to what would have been a multiparty BSRA may now be able to double or triple their gross VCTC award. Special emphasis will be placed on how to properly analyze application of HB 733 to existing projects to take advantage of its retroactivity and how to plan for new projects to shorten timeframes to regulatory closure, maximize tax credit recovery, and accelerate remediation and reuse of sites that are eligible for participation in Florida's Brownfields Program only as of July 1, 2025. This is a very timely workshop with a panel of top practitioners in the field who were involved every step of the way in the drafting of the legislation and its successful advancement through the Florida House and Senate. Do not miss your chance to receive important insight into how the bill came together, how the legislation works, and how it can and should be utilized to benefit your clients, constituents, and/or communities.

Moderator: **Michael R. Goldstein, Esq.**, Managing Shareholder, The Goldstein Environmental Law Firm, P.A.

Panelists:

Howard Nelson, Esq., Partner, Head of Environmental Practice, Bilzin Sumberg

Kerri Barsh, Esq., Co-Chair Environmental Practice, GreenbergTraurig

Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection (Invited)

MICHAEL GOLDSTEIN, ESQ.



Michael R. Goldstein, Esq., Managing Shareholder, The Goldstein Environmental Law Firm, P.A.

Bio:

Michael R. Goldstein, Managing Shareholder of The Goldstein Environmental Law Firm, P.A., and a Martindale-Hubbell AV Preeminent and Chambers and Partners rated attorney, practices exclusively in the areas of environmental law and environmental redevelopment for a broad range of clients, including retail, residential, and industrial developers, public and private companies, real estate funds, lenders, and local governments. A major aspect of Mr. Goldstein's environmental legal practice involves support of real estate and business transactions, including managing pre-acquisition and pre-leasing due diligence investigations; structuring, negotiating, and drafting environmental provisions in purchase, lease, and development agreements; and assisting lenders evaluate and limit the risk of exposure to environmental liability in connection with new loans and potential foreclosures. In addition, he works closely and extensively with real estate development principals and engineering, planning, and design professionals to help coordinate federal, state and local regulatory approvals for complex retail, industrial, residential, mixed use, and marina related projects throughout the State of Florida.

Mr. Goldstein's practice has a heavy emphasis on the remediation, financing, and beneficial reuse of contaminated sites and involves a broad array of Brownfields related transactional, administrative, regulatory, legal, legislative, and policy work for clients in both the private and public sectors. He has developed a national reputation as one of the leading and most innovative Brownfields practitioners in Florida, working on important and precedent establishing projects as well as heading up or participating in numerous local, regional, state, and federal environmental restoration initiatives. On a statewide level, Mr. Goldstein was the founding Chairman of the Florida Brownfields Association and served as its Chairman and/or President for the first five years of the organization's existence. Mr. Goldstein's tenure as Chairman and President was distinguished by his commitment to elevating environmental justice and public health as critical areas of emphasis for business, community, regulatory agency, and local government stakeholders. In 1996, the Miami-Dade County Commission appointed him Chairman of the Miami-Dade County Brownfields Task Force, a post that he held until the committee's business was completed in 2004. In January 2006, Mr. Goldstein was appointed to serve on the Advisory Board of the Bureau of National Affairs' highly respected Environmental Due Diligence Guide, which serves as a national reporting, editorial, and opinion forum for environmental transactions and related Brownfields and policy matters. In 2008, he founded and funded the Goldstein Brownfields Foundation, which is dedicated to empowering economically and health disadvantaged individuals and communities with scholarships, programming, and resources to restore polluted land, revitalize neighborhoods, and protect public health. The Goldstein Brownfields Foundation also focuses on increasing the ethnic and gender diversity of lawyers working in the environmental arena through academic scholarships, educational and career programming, and professional mentoring. In 2009, Mr. Goldstein was appointed to the Executive Committee of the National Brownfields Coalition, an affiliation of private and public sector stakeholders working in the U.S. Congress to advocate for improvements in environmental redevelopment policy and legislation.

HOWARD NELSON, ESQ.



Howard Nelson, Esq., Partner, Head of Environmental Practice, Bilzin Sumberg

Bio:

Howard E. Nelson has more than 30 years of experience in environmental law, land development, zoning, and regional planning. He represents clients throughout all phases of the development process from site location through permitting and construction, as well as in permit appeals and defense of environmental enforcement matters. Howard focuses a substantial portion of his practice to the analysis and remediation of site contamination issues, representing several national homebuilders in pre-acquisition site analysis and contamination remediation. He works closely with environmental professionals in the formulation of appropriate diligence inquiries and the preparation of remedial strategies designed to reduce costs and time frames for completion of projects. Howard also represents a variety of non-residential developers and industries with respect to contamination assessment and remediation issues. Howard has extensive experience in representing clients in complex wetland matters, including issues related to protected and sensitive wetlands and preservation efforts. In addition to traditional permitting for wetlands and other natural resources, Howard has substantial experience in wetland litigation and enforcement defense, both locally and throughout the state.

KERRI BARSH, ESQ.



Kerri Barsh, Esq., Co-Chair Environmental Practice, GreenbergTraurig

Bio:

Kerri L. Barsh is Co-Chair of the firm's Environmental Practice and represents public and private clients on an array of environmental regulatory, permitting and litigation matters, including transactional support and due diligence, environmental assessment and liability matters, climate change, energy and infrastructure projects, wetlands and coastal permitting, complex land use projects, air quality matters, hazardous materials contamination, and other compliance and enforcement cases.

Concentrations

- Climate change
- Environmental compliance, permitting, enforcement, including litigation support
- Transactional environmental work (counseling, due diligence, drafting and negotiation of reps and warrants, disclosures, and indemnities)
- Energy and infrastructure projects, including due diligence, permitting, and NEPA review
- Natural resource mining, permitting and siting
- Brownfields counseling and development
- Electrical generation facilities (power plant and transmission line siting)
- Air quality matters (drafting of contractual protections, remedial assistance and litigation support)
- Land use and comprehensive plan approvals, including litigation
- Landfills (siting, permitting and related regulatory matters)
- Legislation drafting (statutes, ordinances and rules)
- Administrative litigation, including rule-making and permitting challenges
- Global energy and infrastructure
- Catastrophe planning and response

JENNIFER FARRELL, P.G. (INVITED)



Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection

Bio:

Jennifer has over 25 years of environmental experience focusing on the cleanup of contaminated sites in Florida. In her current role, she directs management of the Site Investigation Section, Waste Site Cleanup Section, Federal Programs Section, and the Brownfields and CERCLA Site Screening Section. Jennifer has a bachelor's degree in Geology from Florida State University and is a Professional Geologist with the State of Florida.

OPENING SESSION

OPENING SESSION

REWRITING THE RULES

Institutional Controls,
PFAS Accountability &
Florida's Brownfields Surge

FLORIDA REMEDIATION CONFERENCE

Rewriting the Rules: Institutional Controls, PFAS Accountability & Florida's Brownfields Surge

Moderator: **Robyn Neely, Esq.**, Partner, Chair, Environment and Natural Resources Practice, Akerman LLP

Panelists:

Laurel Lockett, Esq., Shareholder, Carlton Fields, P.A.

Michael Stag, Esq., Partner, Stag Liuzza, LLC

Howard Nelson, Esq., Partner, Government Relations & Land Development, Bilzin Sumberg

Michael Goldstein, Esq., Managing Shareholder, The Goldstein Environmental Law Firm, P.A.

Michael Larson, Esq., Partner, Akerman LLP & President-Elect & Board Member, Florida Brownfields Association, Inc.

Session Description:

Florida's remediation and redevelopment landscape is evolving rapidly, with new legislation, innovative legal strategies, and updated institutional control practices reshaping the path forward. This opening session will provide a multifaceted view of the latest policy, legal, and regulatory developments that are driving change.

Key topics include:

- **Innovative Institutional Controls:** Updates on FBA's Petition to Seek Amendment to Ch. 62-524, F.A.C., the so-called "Delineated Area" Rule, no-drill zones, restrictive covenants, and local ordinances are being applied to achieve risk-based remedies, offering practical solutions that balance remediation costs with long-term site management.
- **PFAS Litigation & Municipal Funding:** An inside look at the \$12.5+ billion national PFAS settlements and emerging legal strategies municipalities can use to secure remediation funds, with guidance on deadlines, statute of limitations, and the evolving multi-district litigation (MDL).
- **Contaminated Media Forum Discussion:** DEP's Contaminated Soils Forum was originally established in 1998 to provide an open forum for external and internal interested parties. In response to numerous requests, the forum has been re-established and renamed **Contaminated Media Forum (CMF)** to provide that open forum and to come to consensus on how to apply the lessons learned from Risk Based Corrective Action (RBCA). The last meeting was held in 2019. Might it be time to meet again?
- **Florida's Brownfields Expansion (CS/HB 733):** A deep dive into the sweeping statutory changes enacted in 2025, including streamlined site closure pathways, expanded participation for federally regulated sites, elimination of outdated mapping requirements, and new incentives for housing, parks, and cultural projects.

Together, these topics will equip attendees with the knowledge to navigate Florida's new Brownfields era, address the complexities of PFAS liability, and apply cutting-edge institutional controls to real-world remediation projects.

ROBYN NEELY, ESQ.



Robyn Neely, Esq., Partner, Chair, Environment and Natural Resources Practice, Akerman LLP

Bio:

Robyn Neely focuses her practice on environmental site contamination issues related to real estate and corporate sales and acquisitions, and leases, including pre-acquisition, pre-leasing and pre-foreclosure due diligence analysis. Her practice also includes managing the investigation and remediation of contaminated properties and brownfield redevelopment including innovative solutions to risk management with risk based corrective actions. Her clients include private equity firms, homebuilders, residential apartment developers, hotels and resorts, lenders, international manufacturers, cell tower developers and service providers, municipal governments, and REITs throughout the United States.

Robyn's comprehensive environmental experience includes the assessment and remediation of sites impacted by arsenic, petroleum, chlorinated solvents, chlorinated pesticides, PCBs, asbestos, and radon, and involves risk-based closures and other alternative strategies for site closure, as well as environmental compliance matters including defense of enforcement actions under CERCLA, RCRA and state environmental laws. Her experience also has included industrial wastewater, air quality, landfills and hazardous waste. In consultation with engineers, geologists, and other technical experts, she assists with environmental due diligence, compliance and risk assessments and develops practical and cost-effective strategies to address existing contamination, or environmental violations.

Robyn is consistently recognized by legal publications, including *Chambers USA* and *Best Lawyers of America*, which named her a Lawyer of the Year for Environmental Law.

LAUREL LOCKETT, ESQ.

Laurel Lockett, Esq., Shareholder, Carlton Fields, P.A.



Bio:

Laurel Lockett practices in the areas of environmental law and commercial real estate. She has substantial experience with cleanup, purchase, sale and redevelopment of brownfields and other contaminated sites, including manuscripting of environmental insurance policies and other creative solutions to risk management, including risk based corrective action and alternative closure strategies. She also has substantial experience with redevelopment of federal superfund sites, industrial and domestic wastewater, storage tank regulation, landfill, PCB, used oil, hazardous waste, and air permitting and regulation. In addition her experience extends to the resolution of environmental enforcement matters, negotiation of prospective purchaser/BFPP agreements with state and federal agencies, consent orders, remediation plans and terms of conditional closure associated with the cleanup of hazardous waste, petroleum, chlorinated solvents, PFAS, and other contaminants with local, state, and federal environmental agencies, redevelopment of those sites and other environmental aspects of real estate and commercial transactions, including asbestos and indoor air quality issues, vapor intrusion, and lead based paint.

Experience

- Environmental permitting and enforcement issues in diverse areas including industrial and municipal domestic wastewater treatment, water reuse systems, storage tanks, landfills, used oil processing facilities, and hazardous waste permitting and regulation and a wide variety of industrial facilities.
- Negotiated settlements, consent orders, and remediation plans associated with the cleanup of hazardous waste, petroleum, chlorinated solvents, such as dry cleaning chemicals, and other contaminants with local, state, and federal environmental agencies, including on brownfields and NPL sites.
- Represented PRPs at various federal Superfund sites, including past service as administrative chairman of the Technical Committee for the Peak Oil Site Generators Group and counsel handling processing of challenges to allocation for hundreds of settling parties at the Peak Oil Site in connection with EPA de minimis settlement offers.
- Environmental aspects of real estate transactions, including creative solutions to environmental risk allocation, brownfields development, manuscripting of environmental insurance products, and indoor air issues such as vapor intrusion, asbestos, radon, and lead paint.
- Represented lenders, buyers, and sellers in commercial and industrial real estate purchase, development, redevelopment, and management, including manufacturing facilities, brownfield sites, Superfund and hazardous waste sites and former golf courses, and redevelopment projects on those sites including hotels, shopping centers, single family and multifamily residential, independent living and over 55 facilities and uses commercial warehouses, including leasing and property management issues.

MICHAEL STAG, ESQ.

Michael Stag, Esq., Partner, Stag Liuzza, LLC



Bio:

Michael G. Stag is the Chief Executive Officer and Managing Partner at Stag Liuzza. A seasoned litigator, Mike is known for his work in environmental and toxic tort law, having secured over \$300 million in settlements and more than \$1 billion in jury verdicts. He pioneered Technologically Enhanced Naturally Occurring Radioactive Material (TENORM) litigation and is passionate about holding corporations accountable for environmental harm. Mike earned his MBA and Juris Doctorate from Loyola University in New Orleans and has represented clients in landmark cases, including a \$1.056 billion verdict against ExxonMobil. He resides in New Orleans with his family.

HOWARD NELSON, ESQ.

Howard Nelson, Esq., Partner, Government Relations & Land Development, Bilzin Sumberg



Bio:

Howard has more than 30 years of experience in environmental law and land development. He represents clients throughout all phases of the development process from site location through permitting and construction, as well as in permit appeals and defense of environmental enforcement matters.

Howard represents several national homebuilders throughout Florida and the eastern United States in pre-acquisition site analysis and post-acquisition remediation. He works closely with a network of environmental professionals, including engineers and planners. He also represents a variety of other types of businesses in contamination assessment and remediation.

Howard has extensive experience representing clients in complex wetland matters, including issues related to protected and sensitive wetlands, preservation efforts and enforcement defense.

MICHAEL GOLDSTEIN, ESQ.



Michael Goldstein, Esq., Managing Shareholder, The Goldstein Environmental Law Firm, P.A.

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MICHAEL LARSON, ESQ.



Michael Larson, Esq., Partner, Akerman LLP & President-Elect & Board Member, Florida Brownfields Association, Inc.

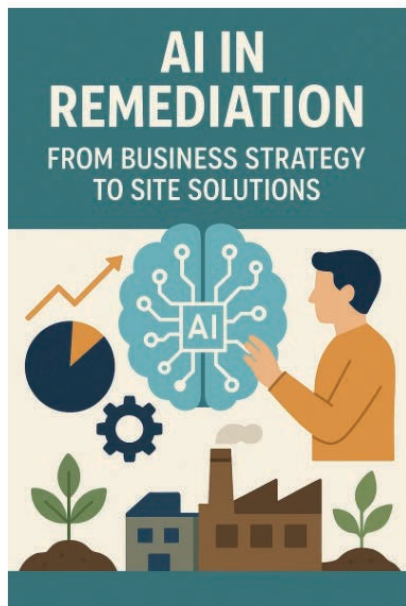
Bio:

Michael Larson is an environmental attorney who routinely advises clients on a range of complex environmental law issues arising in litigation, regulatory, and transactional matters. In addition to handling environmental disputes regarding environmental liability and administrative challenges to agency action, he frequently assists clients with the cleanup, reuse, repurposing, and redevelopment of Brownfield sites and other contaminated or distressed properties throughout Florida. Michael closely guides clients through the intricate process of obtaining environmental regulatory closure of contaminated sites. As part of these efforts, he works effectively with a network of environmental and engineering professionals. Michael also counsels clients on applying for, and seeking the transfer and sale of, Voluntary Cleanup Tax Credits awarded under the Florida Department of Environmental Protection's Brownfields Redevelopment Program.

In addition, Michael's practice involves performing and managing significant environmental due diligence in connection with real estate and corporate transactions across the country. He routinely aids clients with assessing potential environmental risks associated with transactions and assists with risk management strategies, including the procurement of environmental insurance policies. He also advises on a range of complex environmental permitting and compliance matters, including the transfer of permits as part of completed transactions.

Michael has been recognized in Best Lawyers in America for Litigation - Environmental and in the Florida edition of Super Lawyers as a Rising Star in Environmental.

SESSION I



AI in Remediation: From Business Strategy to Site Solutions

Moderator: **Eugene (Gene) Jones**, Executive Director, Southern Waste Information eXchange, Inc.

Panelists:

Vincent Hunt, Founder & CEO, The Bureau of Creative Intelligence

Peter Lakanen, President, Platinum Web Development

Brendan Brown, PWS, Principal Scientist and Nature-based Solutions Discipline Leader, CDM Smith

Jevins Waddell, P.Tech., Eng., President & Co-Founder, TRIUM Environmental Inc.

Session Description:

Artificial Intelligence (AI) is rapidly transforming the remediation industry—redefining how projects are planned, managed, and executed. This dynamic panel brings together five experts to explore both the business applications and the cutting-edge site technologies that AI makes possible. Panelists will share insights on how AI is shaping the modern workplace and driving advances across the sector. Topics include leveraging AI for promotion and outreach, streamlining website development, and harnessing AI-powered remote sensing to revolutionize site restoration monitoring. The session will also highlight the use of advanced AI tools for real-time detection of hydrocarbons, volatile organic compounds (VOCs), and chlorides with a high degree of confidence. Attendees will walk away with a practical understanding of how AI can support business growth, strengthen communication, and deliver innovative solutions for site remediation challenges today and in the future.

EUGENE (GENE) JONES



Eugene (Gene) Jones, Executive Director, Southern Waste Information eXchange, Inc.

Bio:

Gene Jones serves as Executive Director of the Southern Waste Information Exchange (SWIX), a 501(c)(3) non-profit organization which has been operating since 1981 assisting businesses and municipalities with their waste management and remediation issues.

With over 40 years of experience, Gene specializes in building strategic relationships with waste and remediation firms. He brings a vast knowledge of various environmental sectors from organizing and managing conferences such as;

- the PFAS Forum,
- the Agricultural Plastics Recycling Conference & Trade Show,
- the Waste Conversion Technology Conference & Trade Show,
- the Southeast Recycling Conference & Trade Show,
- the New Life for Closed Gas Stations Conference and Exhibition,
- the International Symposium on the Redevelopment of Manufactured Gas Plant Sites,
- the National Conference on Waste Exchange and Resource Reuse, and
- Florida Remediation Conference.

as well as in managing associations such as:

- Florida Agricultural Plastics Recycling Cooperative
- Florida BioFuels & BioEnergy Association, Inc.,
- Recycle Florida Today, Inc.,
- International Society of Technical & Environmental Professionals, Inc.,
- Florida Brownfields Association, Inc., and
- Keep Florida Beautiful, Inc.

Gene is a Martial Arts practitioner and has his 8th degree black belt in Shaolin GoJu and a 5th degree black belt in Nisei GoJu. Gene is also the Author of [Instant Self-Esteem: Empowering Self-Confidence](#) and [The Mindful Sensei](#).

Gene is also the inventor of the [Soap Bag Saver](#), which he designed for the reuse of leftover soap bars.

VINCENT HUNT



Vincent Hunt, Founder & CEO, The Bureau of Creative Intelligence

Bio:

Vincent Hunt is a Frontier Technologist and Author whose work lives at the intersection of technology, human creativity, and the future. For over two decades, he has explored the edges of innovation—where imagination meets machines, and possibility becomes practice.

Recognized for his **human-centered, future-facing approach to complexity**, Hunt helps leaders and the organizations they serve **expand, amplify, and preserve their creative capacity** in a time of rapid technological change.

Whether delivering **keynotes that inspire bold thinking**, facilitating **immersive experiences that unlock creativity**, or writing **works that illuminate the path ahead**, his mission is clear: to **safeguard and scale human creativity in the age of machines**.

The Bureau of Creative Intelligence

At The Bureau of Creative Intelligence, we believe creativity is one of humanity's most vital resources — and that in the age of machines, its expansion, amplification, and preservation are more important than ever. We partner with organizations that recognize two truths: that creativity is the soul of innovation, and value creation, and that AI, when embraced as a partner, can strengthen rather than weaken that soul. Whether serving creative teams seeking to safeguard their genius or human-centered organizations building cultures of creativity, we help leaders demystify AI, build confidence in symbiotic creativity, and unlock the capacity and confidence needed to thrive in the future.

Tagline

Expand. Amplify. Preserve.

The Bureau of Creative Intelligence

- Creativity is one of humanity's most vital resources.
- Creative intelligence is both sacred and strategic.
- The future must be designed, not drifted into.
- Imagination is limitless—and it must be expanded, amplified, and preserved.

PETER LAKANEN



Peter Lakanen, President, Platinum Web Development

Bio:

Peter Lakanen began his career building and leading the IT and software development team at the Florida Department of Environmental Protection's Division of Waste Management.

As the founder of Platinum Web Development, over the last 30 years, he has built and managed large, complex data-driven projects for a wide range of clients, including:

- Southern Waste Information eXchange
- Hopping Green & Sams
- State Library and Florida Archives
- Florida Chapter of the American Institute of Architects
- Florida Center for Public Management

A lifelong artist, Peter has been working with AI art systems since 2021 when he was using VQGAN to write his first prompts. As a pseudonymous AI artist, his work was selected to be shown at the Superchief Gallery in Los Angeles in 2022 and he was chosen to be an official NFT NYC 2025 Artist with work shown in Times Square. Additionally, he is one of Silicon Valley tech evangelist Robert Scoble's 3,500 AI artists in the world to watch.

Peter is currently using AI for his clients in a number of ways:

- Creating AI videos for social media marketing.
- Using AI as a force multiplier for coding and development.
- Incorporating AI into database searches for client systems to enable imperfect matches for complex data.
- He is also actively exploring the use of AI agents for office automation tasks.

BRENDAN BROWN, PWS



Brendan Brown, PWS, Principal Scientist and Nature-based Solutions Discipline Leader, CDM Smith

Bio:

Brendan V. Brown, PWS is a Principal Scientist and Nature-based Solutions Discipline Leader at CDM Smith with over 20 years of experience in environmental data collection, remediation, and ecological restoration. He leads Sky Wave at CDM Smith, which integrates AI and remote sensing to assess and manage environmental sites. Brendan is a registered Professional Wetland Scientist and FAA-certified drone pilot, with extensive field experience across the southeastern U.S. His work includes pioneering patent-pending digital data collection methods and leading R&D projects using UAVs to collect multispectral, thermal, and LiDAR data. He holds an M.S. in Biological Science from Virginia Tech and a B.S. in Forest Environmental Resources from the University of Georgia.

JEVINS WADDELL, P.TECH., ENG.,



Jevins Waddell, P.Tech., Eng., President & Co-Founder, TRIUM Environmental Inc.

Bio:

Jevins Waddell is the founder of TRIUM Environmental Inc. and co-developer of the Artificial Intelligence Site Characterization Technology (AISCT). With a background in hydrogeology and over 25 years in environmental remediation, he has been a leader in advanced in-situ chemical and biological treatment approaches while more recently focusing on AI-driven field screening technologies. His recent work has centered on bringing AI based real-time on-site integrated sensor technologies into site characterization, helping consultants and regulators achieve higher confidence in delineation and remediation planning.

DR. KESAVALU M. BAGAWANDOSS, PH.D., J.D.



Dr. Kesavalu M. Bagawandoss, Ph.D., J.D.

Dr. Kesavalu M. Bagawandoss, Ph.D., J.D. Industries & Environment Technical Director North America, SGS North America, Inc.

Bio:

Dr. Doss has spent more than 40 years in the analytical chemistry arena. Dr. Doss' expertise spans chemistry, environmental analysis, hydrocarbon chemistry (gas and liquids), forensics, industrial hygiene laboratory services (American Industrial Hygiene Association [AIHA] accredited), Air analyses (TO compendium methods), emerging contaminants - PFAS, 6PPD, 6PPDQ, biota analyses, hazardous waste management, client services, management of laboratories, laboratory builds, data validation, data management, sampling, laboratory audits and litigation support. Dr. Doss received his Juris Doctorate from Southern University Law Center and was a Law Review Editor. He is licensed to practice law in Louisiana. He earned his Ph.D., Engineering (Environmental Science) from the University of Oklahoma, his M.S., Chemistry from Wichita State University and his B.S., Chemistry from Loyola College, University of Madras.

NICHOLAS ALBERGO, P.E.



Presentation Title:

The Regulation of Emerging Contaminants: Keeping Your Eye on the Ball

Nicholas Albergo, P.E., Senior Advisor, GHD Services

Abstract:

Mr. Albergo will discuss updates to the federal and state regulatory framework as they pertain to emerging contaminants such as PFAS, confusing and conflicting regulatory directives surrounding definitions, monitoring, and reporting, and promising treatment technologies. The status of litigation related to CERCLA and drinking water will be addressed along with issues surrounding passive releases, such as those associated with the application of biosolids at landfills, agricultural sites, and wastewater spray fields, and how such should be handled within the environmental due diligence process. Additional topics will include the role of continuing obligations in real estate transactions, taking into consideration current and future land uses and the user's project objectives, and other timely issues.

Bio:

Nick Albergo, P.E., DEE, F. ASCE, F. EWRA, D. WRE is Senior Advisor to GHD Services, a worldwide engineering consulting firm. He is an expert in complex litigation cases and a technical consultant to Government, industry, and other consulting firms. He also serves on the engineering faculty at the University of South Florida. Nick has spent decades working with industry stakeholders and government officials and has been a pioneer in his field, authoring or co-authoring over 185 engineering publications.

PHIL FARINA



Presentation Title:

PFAS Treatment Available Today an Overview of Available Technologies

Phil Farina, Midwest Business Development Manager, Clear Creek Systems

Abstract:

An overview of available treatment technologies. GAC, IX, Organo-clay, RO and NF with the pro and cons of each. With a focus on disposal of waste products for each and the impact it has on the existing infrastructure.

Bio:

Phil Farina got his education in New Jersey where he earned a BS in Biology; a BA in Psychology and an MS in Virology at Rutgers University. He then completed an MBA in Chemical Marketing at Fairleigh Dickenson University. He constantly strived to remain on top of new technologies and developments that can be employed in water treatment operations.

Phil currently holds the position of Midwest Business Development Manager for Clear Creek Systems, Inc. a full-service water treatment solution provider. For the past 35 years, he has been focused on the development of water treatment technology solutions for the CCR, remediation, and PFAS markets. He has been instrumental in bringing new technical solutions to the water treatment industry.

Clear Creek Systems is a recognized leader in the development of specialized water treatment systems designed to meet the specific needs of our customers. We are technology agnostic, meaning we will employ the right technology for the job assuring a result that is effective, economical, and most of all safe. Our team of experts can design, build and operate any sized system from 5 GPM to 20,000 GPM.

PATRICK SINGER



Presentation Title:

Colloidal Activated Carbon Used to Reduce PFAS Risk in Groundwater at Airports Worldwide: A Multiple Site Review

Patrick Singer, Southeast District Manager, REGENESIS

Abstract:

Background/Objectives:

Per- and polyfluoroalkyl substances (PFAS), are an emerging contaminant in soil and groundwater at airports worldwide, primarily from the use of aqueous film-forming foams for firefighting and training activities. PFAS compounds are part of a family of thousands of chemicals that are known for their risk to both human health and the environment, and PFAS is known to be resistant to biological and chemical degradation. These factors, along with extremely low clean-up criteria create a unique problem when remediation is needed to mitigate risk to receptors associated with PFAS contamination.

Traditionally, environmental practitioners have attempted to remediate recalcitrant contaminants through hydraulic containments of aquifers from pump and treatment systems. These systems are tasked with removing contamination to the parts per billion levels with varying degrees of success; as many systems have been running for over 40 years without achieving the clean-up criteria. As new Federal regulations designate certain PFAS compounds as hazardous substances and establish drinking water standards of single-digit parts per trillion levels, this approach is not sustainable, economical, or practical for most PFAS impacted groundwater sites.

A captivating and environmentally sustainable strategy to address PFAS risk is the use of colloidal activated carbon (CAC) to enhance the natural attenuation of PFAS *in-situ* in both soil and groundwater. CAC comprises of very fine particles of activated carbon suspended in polymer that can be injected into aquifers under low pressure or mixed into source area soils. The CAC binds to the soil matrix and serves as an *in-situ* filter to remove PFAS from groundwater as it encounters the activated carbon particles or is used to reduce the mass discharge of PFAS into groundwater from impacted vadose soils. The use of one or both applications will virtually eliminate further discharge of PFAS mass into aquifers thus making enhanced attenuation of PFAS a preferred remediation approach.

Approach/Activities:

The presentation will present misconceptions surrounding the use of pumping groundwater to flush PFAS from aquifers and a case study review of multiple airport sites worldwide that are using a natural attenuation strategy to address PFAS impacts in soil and groundwater through treatments with CAC. The size and scope of the CAC projects vary along with the injection methods and treatment configurations between grids and permeable reactive barriers. Groundwater was primarily targeted for treatment, but on a few occasions source vadose soils were also treated. Before the implementation of the CAC, design verification testing (DVT) and advanced mass flux and predictive competitive sorption modeling were completed to refine the site conceptual models. Also, during the application process, field placement validation steps, such as post-injection soil cores and piezometers, were used to observe and refine the CAC distribution.

Results/Lessons Learned:

Results of the study show that in most of the sites treated, CAC was distributed effectively within the aquifer and achieved stringent remedial standards for a sustained period often below the laboratory detection limits. Furthermore, the advanced modeling demonstrated a theoretical PFAS retardation spanning decades from one-time treatments of CAC. This study indicates that an *in-situ* application of CAC to enhance attenuation is a viable and environmentally sustainable remediation method to address the risk associated with PFAS contamination at airports.

Bio:

Patrick Singer has more than 3 years of experience in environmental remediation, starting with REGENESIS as a Project Supervisor with REGENESIS Remediation Services. He provides support and management to soil and groundwater remediation through the utilization of chemical reduction, chemical oxidation, sorption, and enhanced bioremediation methods throughout the United States. Patrick has assisted in the design and implementation of complex remediation projects, including those with LNAPL, DNAPL, and PFAS contaminated sites. He currently works alongside professional geologists and engineers to implement innovative remedial strategies. Patrick is currently the Southeast District Technical Manager for REGENESIS, based in Atlanta, GA, and holds a B.S in Natural Resources from the University of Georgia.

SUSAN SITKOFF, P.G., RYAN JOSLYN, P.E. AND RAJ MELKOTE



Presentation Title:

PFAS Destruction in Biosolids

Susan Sitkoff, P.G., Capital Improvement Plan Division Environmental Manager, City of Orlando,
Ryan Joslyn, P.E., Engineer, Geosyntec Consultants, Inc. and
Raj Melkote, Chief Technology Officer, 374Water

Abstract:

Promulgation of the National Primary Drinking Water Regulations for PFAS in drinking water implicates municipalities with the responsibility of ensuring the public has access to safe drinking water and warrants further actions to update and maintain existing infrastructure to meet these established criteria. PFAS contaminants have been known to enter, transform, and accumulate in water and wastewater treatment plants with waste media and effluent streams being discharged to multiple different locations. Traditional methods of disposal, including land application, was replaced with landfill disposal because of PFAS concerns, so the City of Orlando was seeking a means for on-site destruction to help reduce costs. To address these concerns, the City evaluated different treatment options and selected a Super Critical Water Oxidation (SCWO) system for pilot testing at the Iron Bridge Waste Water Treatment Plant. The SCWO system was installed and has been testing PFAS destruction from different waste streams, including waste-activated sludge from the plant. This presentation intends to discuss the details of the SCWO system, capabilities of the system, baseline and performance monitoring associated with the pilot test, and lessons learned.

Sitkoff Bio:

Project Manager for assessment and remediation projects in the City of Orlando. Mrs. Sitkoff is a licensed Professional Geologist with over 30 years of experience in environmental assessment and remediation. Her experience includes assessment and remediation of petroleum hydrocarbons, polynuclear aromatic hydrocarbons, inorganics, pesticides, and PFAS impacted sites at various commercial sites throughout the country. Mrs. Sitkoff spent over 23 years working on assessment and remediation at Kennedy Space Center and Cape Canaveral Air Force Station prior to coming to work for the City of Orlando.



Joslyn Bio:

As a project manager in the Geosyntec Consultants Titusville office, Ryan is a licensed Professional Engineer with more than 6 years of experience in environmental assessment and remediation. Ryan has dedicated his experience to the environmental assessment and remediation of complex sites including manufactured gas plants, large-scale industrial operations, and state and federal facilities with petroleum hydrocarbons, chlorinated solvents, and PFAS contamination. He has designed and/or operated various remedial technologies including air sparge/SVE systems, groundwater extraction and treatment systems, and in-situ remedial technologies.



Melkote Bio:

Raj Melkote is currently Chief Technology Officer for 374Water, a pioneering growth company in the waste destruction space, whose mission is to destroy organic wastes including “forever chemicals” (PFAS) through a novel supercritical water oxidation process.

Melkote is a seasoned R&D / Engineering executive with a track record of introducing and commercializing innovative new industrial technology products across a wide range of industries. Prior to joining 374Water, Melkote was Chief Technology Officer at BayoTech Hydrogen, providing modular, scalable, and rapidly deployable hydrogen generation, transport, storage, and fueling solutions. In that role he led innovation, testing, design, and continuous improvement of BayoTech processes. Previously he worked for Edwards Vacuum where he introduced machine learning to develop predictive diagnostics around pump failures and spearheaded the XVS cryopump platform. Melkote has also held leadership, engineering, and R&D roles with Brooks Automation, Honeywell, United Technologies, and General Electric. Melkote received his PhD from the University of Minnesota and a Bachelor of Science degree from Purdue University, both in chemical engineering.

CHAD NORTINGTON, P.E.



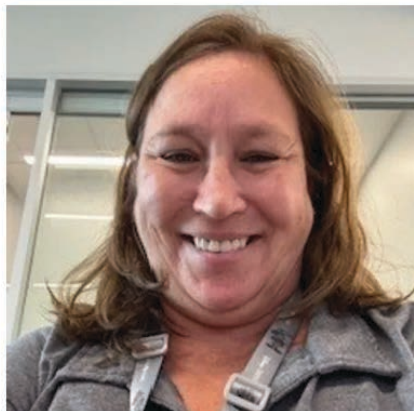
Chad Northington, P.E.

Chad Northington, P.E., Senior Project Manager, Terracon

Bio:

Mr. Northington is a professional engineer with over twenty years of experience in the environmental field in the areas of site investigation, remediation engineering and construction, project management, and technical assistance. He received both his undergraduate and graduate degrees in environmental engineering from Michigan Technological University. Mr. Northington currently serves as a Senior Project Manager for Terracon. In this capacity, he provides technical support for application of soil and groundwater remediation solutions. Mr. Northington works directly with environmental firms and end users to develop turnkey remedial approaches for in situ-applied strategies across a broad spectrum of technology classes.

MERRILEE PALCIC



Presentation Title:

Remediation of Historic Creosote Wood Treating Facility through Implementation of Corrective Measures at JEA's Kennedy Generating Facility South Parcel

Merrilee Palcic, P.E., JEA

Abstract:

JEA's Kennedy Generating Station south parcel, located in Jacksonville, Florida, was historically used as a creosote wood treating site. From 1909 to 1962, previous owners of the site treated wood used for telephone poles and railroad ties with creosote. Creosote treatment ended in 1962, but the site continued to be used as a wood treatment chemical facility until 1966. In 1966, the storage tanks and distribution activities were moved from the site to a separate land parcel across the street. Distribution of creosote from a dock and pipeline on adjacent property continued through the 1980s. In 1977, JEA acquired the historic creosote site property to operate an electrical substation and wastewater facilities associated with the generating station. The wood treatment facilities and creosote distribution facilities (operational from 1966 to 1992) caused releases of wood treating preservatives and petroleum-based compounds that affected soil, groundwater, and river sediments. Contaminants of Concern included arsenic, polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs). The objective of this presentation is to describe JEA's corrective measures implemented to clean up the soil, groundwater, and sediments. Remedies included capping, source removal, dredging, construction of a RCRA Corrective Action Management Unit (CAMU), and continued operation of a groundwater recovery system. Monitored Natural Attenuation will be implemented for the sediments to determine if the remedial action was successful for this media.

Bio:

Merrilee is a professional environmental engineer at JEA. Prior to joining JEA, she spent 5 years in the City of Jacksonville's Petroleum Cleanup program. Prior to that, she spent 18 years at FDEP Northeast District's Waste Cleanup Section. She has a bachelor's degree in chemical engineering from Georgia Tech, and a master's degree in chemical engineering from USF.

BRETT BOHENTIN



Presentation Title:

An Innovative Remedial Approach for Petroleum Hydrocarbons When Considering Impacts on Business Operations – A Case Study

Brett Bohentin, Project Manager, APTIM

Abstract:

When determining a suitable remedial strategy to address soil and groundwater impacts at retail petroleum facilities, considerable attention is paid to site specific characteristics such as lithology, plume size, particular contaminants and their concentrations, proposed timeline, and cost. One component that is often overlooked is how the remedial strategy will impact operations of the business. At an active petroleum station in southwest Florida, soil and groundwater impacts were localized beneath the overhead canopy. Familiar strategies such as air sparge and soil vapor extraction were ideal given the considerations above; however, with a (very) active petroleum station and the plume situated within high travel and operational areas, an innovative technology was utilized in order to minimize impacts to the business operations. APTIM utilized chemical injections using hydrogen peroxide and EN Rx Reagent at multiple locations and intervals beneath the canopy to address volatile organic aromatics/volatile organic hydrocarbons (specifically isopropylbenzene) and polynuclear aromatic hydrocarbons impacts in the soil and groundwater. The injection events were successful in reducing contaminant concentrations to levels allowing for Post Active Remediation Monitoring. The short-term injection events were successful in driving the rehabilitation of the site without burdening the property with extensive construction, operational disruptions that can cause loss of sales, and health & safety issues that accompany remediation at active petroleum stations.

Bio:

Brett Bohentin is a Project Manager for APTIM with 20 years of experience in the environmental industry. His main focus is environmental assessment/remediation and underground storage tank compliance.

DR. MICHAEL LEE, PH.D.



Presentation Title:

Permeable Reactive Barriers: In-Situ Treatment Strategies to Mitigate Nitrate and Phosphate Discharge to Surface Water

Dr. Michael Lee, Ph.D., Vice President of Research and Development, Terra Systems, Inc.

Abstract:

Background/Objectives.

Eutrophication due to excessive nutrient loadings to surface water bodies is a global environmental issue. High concentrations of nitrate and phosphate in groundwater can occur from fertilizer usage, manufacturing, agriculture, or septic systems. On Cape Cod in Massachusetts and eastern Long Island in New York, septic systems are the leading contributor of nitrate to the groundwater and manage 60% to more than 80% of wastewater. Eutrophication results in health, environmental and financial impacts where it occurs, including drinking water, recreation, tourism, property valuation, and fisheries.

Approach/Activities.

Denitrification permeable reactive barriers (PRBs) can enhance the activity of naturally occurring soil bacteria that remove nitrate from groundwater prior to discharging to surface water through the addition of an organic carbon substrate to the subsurface. Organic carbon can be applied as a solid (e.g., wood chips) or as a liquid solution. Various methods of PRB construction can be used including injection wells, temporary injection points, trenching, large diameter boreholes, and as part of bulkhead replacement. Key factors for selecting the type of denitrification PRB and design parameters include depth of nitrate impacted groundwater, soil type, groundwater velocity, nitrogen concentrations, and distance to surface water. Batch and column studies were also conducted to evaluate phosphate adsorption using three commercial products.

Results/Lessons Learned.

Permeable reactive barriers for in-situ denitrification have been implemented using wood chips and emulsified vegetable oil (EVO), including using an EVO formulated for increasing retention to soil in sandy aquifers with fast groundwater velocity. Pilot test PRBs have been implemented for a range of nitrate concentrations and hydrogeologic conditions. Field applications of denitrification PRBs demonstrate treatment of nitrate to very low concentrations with sustained denitrification over multiple years. Bench-scale batch and column studies and field demonstration tests continue to inform PRB design, refinement of lifetime cost estimates, and future full-scale implementation. Adsorption may be used to remove phosphate from groundwater before it discharges to surface waters or applied to the water column in the surface water.

Bio:

Dr. Michael D. Lee is Vice-President of Research and Development at Terra Systems. He has Ph.D (1986) and MS (1983) degrees in Environmental Science and Engineering from Rice University and a BS in Biology from University of Louisiana at Monroe (1980). Dr. Lee has over 30 years of experience in the field of bioremediation, with expertise in applying in-situ anaerobic bioremediation of chlorinated solvents and metals, implementing in-situ aerobic bioremediation of hydrocarbons and other contaminants in groundwater and waste impoundments, conducting biodegradation and chemical oxidation treatability studies, and assessing natural attenuation of organic contaminants. He has been HAZWOPER certified since 1988. He was a technical lead for the first successful demonstration of bioaugmentation to promote the complete anaerobic biodegradation of trichloroethene and cis-1,2-dichloroethene for the Remediation Technologies Development Forum at Dover Air Force Base. Terra Systems was a participant in the Source Area BioREmediation (SABRE) project in the United Kingdom that demonstrated in the laboratory and field the anaerobic bioremediation of dense non-aqueous phase trichloroethene. Dr. Lee has conducted laboratory microcosm, column studies, and field demonstrations of the anaerobic bioremediation of chlorinated solvents and chemical oxidation at over two hundred sites. He jointly holds the patent on the use of

emulsified soybean oil to support complete reductive dechlorination of chlorinated solvents. Dr. Lee has published over 100 articles in peer-reviewed journals, conference proceedings, or books. He develops new products in support of our customers' needs. They includes SRS®-M for abiotic degradation of hexavalent chromium and other reducible metals; SRS®-Z combining SRS® and zero valent iron; SRS®-STA with a shear thickening agent for increased distribution in heterogeneous aquifers; SRS®-NR with an anionic surfactant mixture for greater retention in a high groundwater flow rate aquifers.

DEREK PIZARRO, CPG



Presentation Title:

Reductive Dechlorination with Concurrent Sequestration of PFAS and 1,4-Dioxane in a Large Commingled Plume at a Former Manufacturing Facility

Derek Pizarro, CPG, Senior Remediation Geologist, AST Environmental, Inc.

Abstract:

Background/Objectives.

The 3.85-acre confidential site, located in a heavy industrial/commercial area in New Jersey, includes an 82,500 square-foot manufacturing building where electroplating, and other operations were conducted for nearly 50 years. Site investigation activities conducted from 2020 to 2021 in overburden and bedrock groundwater detected high levels of chlorinated ethenes, including trichloroethene (TCE), cis-1,2-dichloroethene, vinyl chloride, and 1,1-dichloroethene, as well as high levels of per- and polyfluorinated substances (PFAS) and 1,4-dioxane impacts to soil and groundwater. Regional geology in the vicinity of the site is characterized by an upper unit consisting of river alluvium and eolian deposits of Holocene Age, underlain by glacial unconsolidated deposits (clay, silt, sand, and gravel) of Pleistocene Age, and finally bedrock of the Passaic Formation, consisting of thin bedded shales, mudstones, and sandstones. Unconsolidated deposits at the site are comprised predominantly of glacial till. A clay layer, continuous across much of the site, is observed midway through the till from approximately 15 feet to 20 feet below the ground surface. Groundwater elevations are monitored in three zones: shallow till (5 to 20 feet below ground surface [bgs]) above the clay layer; lower till and underlying highly weathered bedrock (20 to 35 bgs); and the upper competent bedrock (60 to 80 feet bgs). The primary objective at the site is the reduction in mass, concentration, and mobility of chlorinated ethenes that have consistently been detected in groundwater at levels ranging from a few parts per billion to over 100 parts per million. Secondary and tertiary objectives are the sequestration of a portion of PFAS and the biodegradation of 1,4-dioxane.

Approaches/Activities.

Because PFAS are highly recalcitrant to in-situ destruction technologies, and because chlorinated ethenes and 1,4-dioxane typically require sequential biodegradation technologies under respectively reducing and oxidizing conditions, simultaneous remediation of these target compounds is rarely attempted. However, an acceptable interim remedial approach was identified whereby Remediation Products, Inc.'s (RPI's) Trap and Treat® CAT 100, a proprietary mixture of virgin activated carbon impregnated with metallic iron, and a suite of complex carbohydrates, yeast extract, and bacteria, would be injected into the saturate zone to, 1) sequester a portion of the target compounds, 2) enhance the abiotic and biotic reductive dechlorination of chlorinated ethenes, and 3) persist within anaerobic/aerobic transition zones to promote the biodegradation of 1,4-dioxane. An injection design was subsequently prepared to identify the dose of CAT 100 necessary to achieve these objectives. The design was based on the collection of 667 soil samples and 144 groundwater samples over a 45,000-square-foot area where chlorinated ethenes and PFAS were detected at the highest levels. Soil samples were collected on 1 to 3 foot intervals while groundwater samples were collected from temporary shallow and deeper wells to the top of bedrock. A series of "heat" maps were generated to identify areas of concentrated impacts, and to develop the dosage of CAT 100. A total of 900 locations were tentatively identified for the injection of a total of 125,800 pounds of iron-impregnated activated carbon, 91,750 pounds of pea fiber, 4,565 pounds of yeast extract, and 245 pounds of bacteria in 214,000 gallons of water. The injection work was completed over a 6-month period during the renovation of the building.

Results/Lessons Learned.

Groundwater monitoring results indicate that reducing conditions have been engendered, as planned, in all the targeted injection areas, with 90 to 99 percent reduction in TCE in most of the target wells. Remediation performance monitoring has been conducted after the completion of the injection program and includes the full suite of chlorinated ethenes, PFAS, and 1,4-dioxane. Complete details regarding challenges and current data will be provided.

Bio:

Derek Pizarro, CPG is a Senior Remediation Geologist for AST Environmental, Inc. He is a Certified Professional Geologist and has 21 years of experience in environmental applications, specifically fractured bedrock characterization; contaminant transport studies; permeable reactive barrier (PRB) design; and reagent bench-scale testing and design for environmental sites and industrial process waste streams. Derek has contributed to the testing and selection of contaminant remedies for multiple CERCLA sites, projects under the Pennsylvania Act 2 land recycling program, and hundreds of privately funded cleanups. Previously, Derek served as General Manager and Environmental Products Director for a chemical manufacturer, developing chemistries for treatment of inorganic contaminants, sediment applications, and injectates for use in PRBs.

SESSION IV

DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup

Session Description:

This session will feature key programmatic updates from the Florida Department of Environmental Protection's Division of Waste Management, highlighting both the Petroleum Restoration Program and the Waste Cleanup Program. Attendees will gain insight into current regulatory initiatives, cleanup strategies, and technical guidance impacting site rehabilitation across the state.

Speakers (Invited):

Mubeen Darji, P.E., Environmental Administrator, Waste Site Cleanup Section, Florida Department of Environmental Protection

Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection

James Treadwell, P.E., Professional Engineer II, Petroleum Restoration Program, Florida Department of Environmental Protection

Billy Hessman, P.G., Program Administrator, Petroleum Restoration Program, Florida Department of Environmental Protection

MUBEEN DARJI, P.E.



Mubeen Darji, P.E., Environmental Administrator, Waste Site Cleanup Section, Florida Department of Environmental Protection

Bio:

Mubeen Darji is the Environmental Administrator for the Florida Department of Environmental Protection (DEP) Waste Site Cleanup Section. She has over 30 years of experience in environmental work, specifically focusing on the cleanup of contaminated sites in Florida. In her current role, Mubeen is responsible for managing the Drycleaning Solvent Cleanup Program and State-Funded Cleanup Program. She also coordinates with EPA on the remediation of Superfund sites in Florida. Prior to becoming the Environmental Administrator, Mubeen served as the lead engineer in the Waste Site Cleanup Section. In that position, she was responsible for reviewing and approving remediation documents for contaminated sites and collaborated with DEP project managers and state contractors on contaminated site cleanup efforts. Mubeen holds a bachelor's degree in civil engineering from Bangalore University and a master's degree in environmental engineering from Louisiana State University. She is a licensed Professional Engineer in Florida.

JENNIFER FARRELL, P.G.



Jennifer Farrell, P.G., Program Administrator, Waste Cleanup Program, Florida Department of Environmental Protection

Bio:

Jennifer has over 25 years of environmental experience focusing on the cleanup of contaminated sites in Florida. In her current role, she directs management of the Site Investigation Section, Waste Site Cleanup Section, Federal Programs Section, and the Brownfields and CERCLA Site Screening Section. Jennifer has a bachelor's degree in Geology from Florida State University and is a Professional Geologist with the State of Florida.

JAMES TREADWELL, P.E.



James Treadwell, P.E., Professional Engineer II, Petroleum Restoration Program, Florida Department of Environmental Protection

Bio:

James has worked in the FDEP Petroleum Program for over 20 years, working as a Site Manager, Professional Engineer, and Contract Manager. Jame's current duties include technical support for the Local Program Petroleum teams, Conditional Closure review, and review of Purchase Orders.

BILLY HESSMAN, P.G.



Billy Hessman, P.G., Program Administrator, Petroleum Restoration Program, Florida Department of Environmental Protection

Bio:

Billy has over 8 years of experience in cleanup of contaminated sites in Florida in both DEP's Waste Cleanup and Petroleum Restoration Programs. Billy has a bachelor's degree in Geology from Florida State University and is a registered Professional Geologist with the State of Florida.

SESSION V

Common Practices for Addressing Contamination in FDOT Right-of-Ways

Session Description:

FDOT legal and technical panel discussion exploring ways to address contamination within FDOT right-of-way under various scenarios, including project development, roadway spills, migration from off-site source properties, and the MOU Map Note process as an alternative institutional control.

Provide information about contamination assessment and remediation in FDOT right of way to professionals working with FDOT and other landowners in Florida to address issues of liability and identify contracting opportunities.

Panelists:

Kathleen P. Toolan, Special Counsel for Environmental Affairs, Florida Department of Transportation

Maria Salgado, District Contamination Impact Coordinator, Florida Department of Transportation

Aja Stoppe, Environmental Specialist, Florida Department of Transportation

John Cibotti, Occupational Safety & Health Manager, Florida Department of Transportation

KATHLEEN TOOLAN



Kathleen P. Toolan, Special Counsel for Environmental Affairs, Florida Department of Transportation

Bio:

KATHLEEN TOOLAN currently serves as Special Counsel for Environmental Affairs at the Florida Department of Transportation (FDOT). She has held this position since 2016, when she was appointed in conjunction with her successful effort to achieve FDOT's NEPA Assignment. Prior to this appointment, she served as Chief Counsel for FDOT's Administrative Law Section. Before joining FDOT in 2008, Kathleen practiced with a private law firm concentrating on environmental law, mass torts, securities fraud and class action litigation. Kathleen also spent eleven years as an Assistant General Counsel with the Florida Department of Environmental Protection. She earned her bachelor's degree from Vanderbilt University and received her J.D. from Florida State University College of Law, where she served as an editor on the Journal of Land Use & Environmental Law.

MARIA SALGADO



Maria Salgado, District Contamination Impact Coordinator, Florida Department of Transportation

Bio:

Maria Salgado is currently the District Contamination Impact Coordinator (DCIC) for the Florida Department of Transportation (FDOT) District 4 office. She started her career in the fall of 2000 with a private firm designing Remediation Cleanup systems for contaminated sites. She joined FDOT D6 in Summer of 2008 working in the Planning and Environmental Management Office (PLEMO) as an Assistant DCIC. In 2016, she was promoted to District 4 DCIC. Her role as the DCIC is to ensure the public and roadway construction employees working on FDOT projects are protected from contamination exposure. In addition to providing guidance on avoiding and minimizing contamination impacts, Maria reviews Project Development & Environmental projects for impacts, reviews contract plans and performs Level I & II assessment activities during the project's final design phase. If avoidance or minimization is not achieved or possible, Level III Remedial Action activities are performed during the construction phase of the project.

Education:

Graduated in 1995 from South Dade Senior High home of the Buccaneers located in Homestead Florida

B.S. in Civil Engineering with a specialty in Environmental Engineering from FIU in 2000

Environmental/Contamination Experience: 25 years

AJA STOPPE



Aja Stoppe, Environmental Specialist, Florida Department of Transportation

Bio:

Aja Stoppe is an Environmental Specialist in the Florida Department of Transportation's (FDOT) District 2 Environmental Management Office in Lake City, Florida. She began her career with the Department in 2012 as an assistant to the District's Contamination Impact Coordinator (DCIC) and has held the position of DCIC since 2017. In this role, she leads the Contamination Program for both the project development and design phases, as well as leading the District's engagement with the Florida Department of Environmental Protection under the Contamination MOU. Her responsibilities include identifying and evaluating contamination impacts to FDOT projects, providing guidance on avoidance and minimization strategies, managing remediation efforts prior to construction, and supporting the Construction DCIC as projects transition into active construction.

Aja holds a Master's degree in Soil and Water Science from the University of Florida. Prior to joining FDOT, she worked at the University of Florida as a chemist in both the Forest Soils Laboratory and the North Florida Research and Education Center's Soil Fertility Laboratory.

JOHN CIBOTTI



John Cibotti, Occupational Safety & Health Manager, Florida Department of Transportation

Bio:

John Cibotti is currently the district 4 Occupational Safety & Health Manager for the Florida Department of Transportation. He began his environmental path by interning at the Monroe County Emergency Management Department, then moved to the Safety Consultant position at the Miami-Dade Health Department, and he joined FDOT in June of 2023 as the manager for what was formerly called the Environmental Health & Safety unit. His duties in this role extend far beyond typical workplace safety tasks, venturing into fuel sampling, groundwater remediation, silica dust cleaning, hazardous material building inspection and waste removal, HAZWOPER trainings, and more. John is responsible for Right of Way spill cleanup and soil remediation spanning Indian River, St. Lucie, Martin, Palm Beach, and Broward counties. More industrial hygiene-related tasks John's unit oversees are mold remediation, TCLP sampling, and silica dust annual deep cleaning coordination.

Education: Florida International University: B.A. in Economics; M.A. in Religious Studies; M.A. in International Disaster Preparedness



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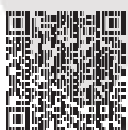
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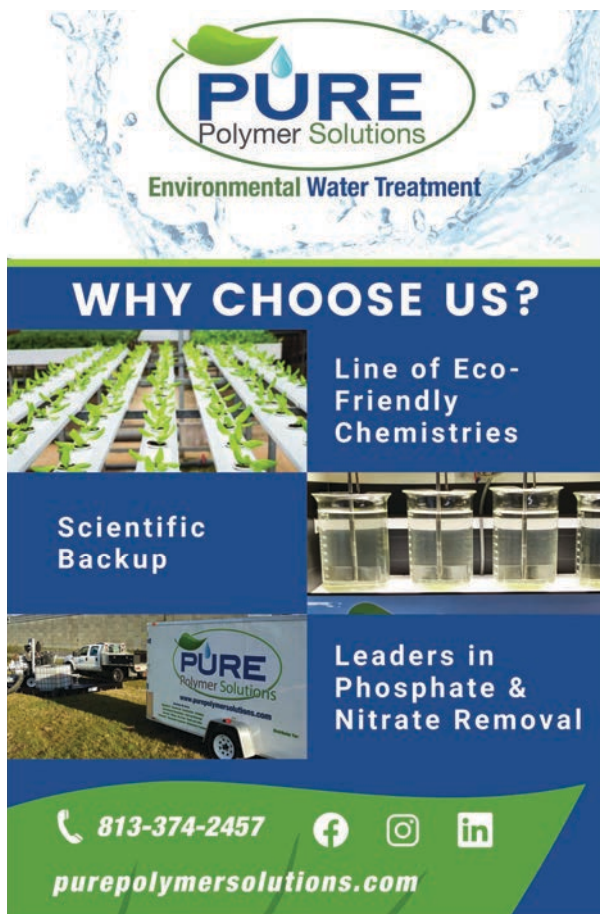
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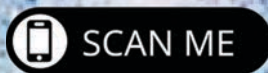
PFAS Forum VI

May 13 - 15, 2026

**Rosen Centre Hotel
Orlando, Florida**

Forum Purpose:

To educate the environmental/remediation industry and regulatory community on the potential risks from PFAS, as well as discuss regulatory and legal issues, monitoring, treatment, cleanup and disposal technologies.



<https://pfasforum.org>

FLORIDA REMEDIATION CONFERENCE



The 31st Florida Remediation Conference (FRC 2026)

October 25-27, 2026
Rosen Centre Hotel
Orlando, Florida

***One of the Premier Remediation and Redevelopment
Educational & Business Networking Events in the Country!***



Conference Topics Include:

- Innovative Remediation Technologies
- Environmental Assessment and Analysis
- Emerging Contaminants
- Vapor Intrusion Investigation and Remediation
- Brownfields and Redevelopment
- Characterization, Fate and Transport
- Risk Assessment Practices, Applications, and Benefits
- Environmental Forensics
- Innovative Strategies and Approaches to Expedite Site Closure
- Remediation of Petroleum and Heavy Hydrocarbons
- Funding and Insuring Remediation Projects
- Business Aspects for the Environmental Professional
- Other Relevant Topics

FloridaRemediationConference.org

Florida Remediation Conference (FRC 2025)		
Program at a Glance		
Monday, November 3, 2025		
11:00 am - 5:00 pm	The 15th Annual Florida Remediation Charity Golf Tournament	(Shingle Creek Golf Club)
3:00 pm - 7:00 pm	Conference Registration Open - Rosen Centre Hotel	(Reg Desk 1)
3:00 pm - 7:00 pm	Exhibitor and Poster Presentation Setup	(Grand Ballroom C)
4:00 pm - 5:30 pm	Pre-Conference Workshop A Magnificent Evolution of Florida's Brownfields Program – Expansion and Acceleration of Remediation, Redevelopment, and Reuse Under HB 733	(Grand Ballroom A)
5:30 pm - 7:00 pm	Welcome Reception	(Pool Deck)
Tuesday, November 4, 2025		
7:45 am - 7:00 pm	Registration Open	(Reg Desk 1)
7:45 am - 8:30 am	Continental Breakfast: Exhibit Hall	(Grand Ballroom C)
8:30 am - 10:00 am	FRC 2025 Opening Session Rewriting the Rules: Institutional Controls, PFAS Accountability & Florida's Brownfields Surge	(Grand Ballroom A)
10:00 am - 10:30 am	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
10:30 am - 12:00 pm	Session I: AI in Remediation: From Business Strategy to Site Solutions	(Grand Ballroom A)
12:00 pm - 1:00 pm	Lunch (Provided)	(Grand Ballroom B)
1:00 pm - 3:00 pm	Session II: PFAS Management and Emerging Contaminants: Regulatory Trends, Treatment Advances, and Global Applications	(Grand Ballroom A)
3:00 pm - 3:30 pm	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
3:30 pm - 5:30 pm	Session III: Innovative Remediation Strategies for Complex Contaminant Challenges	(Grand Ballroom A)
5:30 pm - 7:00 pm	Poster Reception - Exhibit Hall (6:30 pm 50:50 Raffle Drawing)	(Grand Ballroom C)
Wednesday, November 5, 2025		
7:45 am - 12:00 pm	Registration Open	(Reg Desk 1)
7:45 am - 8:30 am	Continental Breakfast: Exhibit Hall	(Grand Ballroom C)
8:30 am - 10:00 am	Session IV: DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup Program	(Grand Ballroom A)
10:00 am - 10:30 am	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
10:30 am - 12:00 pm	Session V: Common Practices for Addressing Contamination in FDOT Right-of-Ways	(Grand Ballroom A)
12:00 pm	Adjourn	
10:30 am - 12:30 pm	Exhibitor and Poster Breakdown	