
FLORIDA REMEDIATION CONFERENCE

The 31st Florida Remediation Conference **FRC 2026**

Moderator and Speaker Compendium

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



Organized by:



EICM
ENVIRONMENTAL INDUSTRY CONFERENCE MANAGEMENT, LLC



Environmental Practice

Site Assessment and Remediation

Regulatory Enforcement

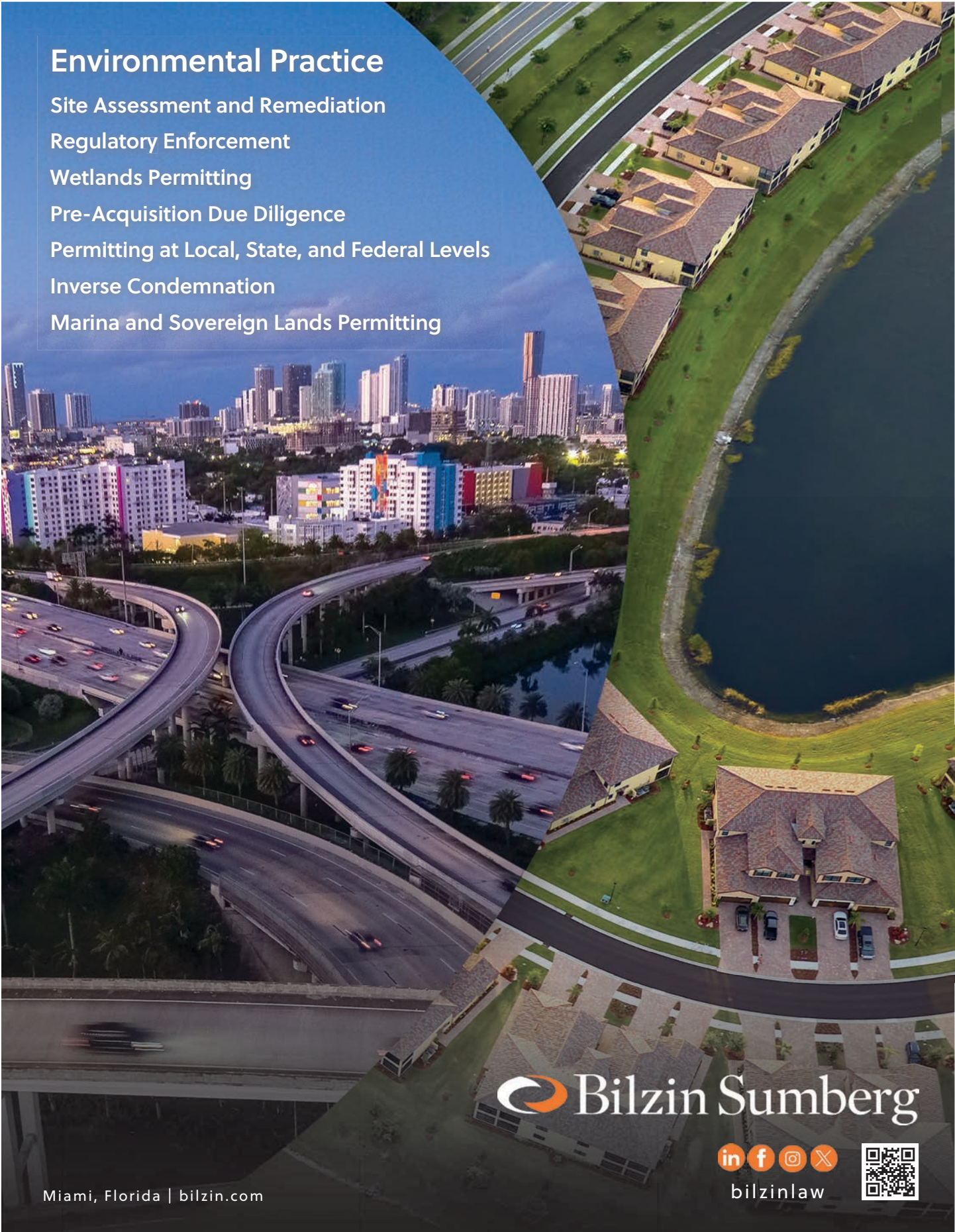
Wetlands Permitting

Pre-Acquisition Due Diligence

Permitting at Local, State, and Federal Levels

Inverse Condemnation

Marina and Sovereign Lands Permitting



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Table of Contents

	Page
Conference Sponsor List.....	5-6
List of Exhibitors and Exhibit Hall Diagram.....	7
Conference Agenda:	
Pre-Conference Workshop:	
Managing Risk in Remediation: Funding, Insurance & Project Success	8
Opening Session: Emerging Contaminants: Regulations, Standards & Remediation Challenges.....	9
Session I: Emerging Contaminants: Technical Advances in Assessment and Remediation.....	9
Session II: Advanced Site Characterization and Remediation Optimization	10
Session III: Innovative Remediation Technologies for Complex Contaminants.....	11
Session IV: DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup Program.....	12
Session V: Innovative Technologies Transforming Environmental Remediation	12
Moderator and Speaker Profiles:.....	13

FLORIDA REMEDIATION CONFERENCE



FRC 50/50 Raffle

Winner Can Select to Take
Half the Pot in Cash
or a Bottle of
Old Rip Van Winkle 10 Year!



Retail Value ~ \$900

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



Proceeds to Benefit:

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CONFERENCE ORGANIZERS:



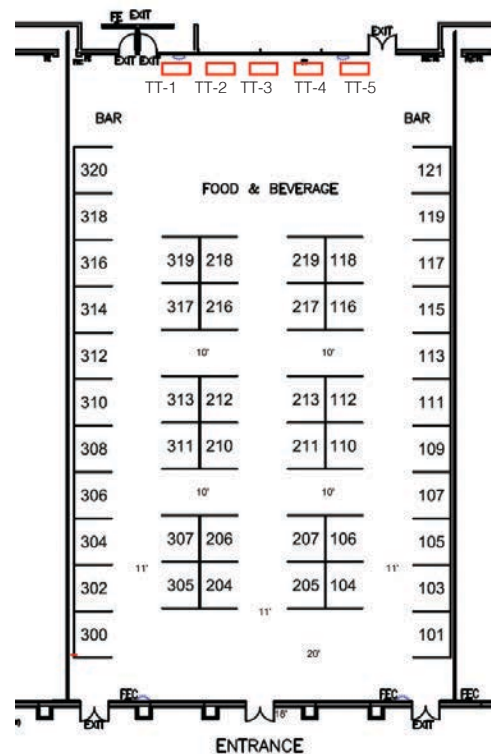
SUPPORTING ORGANIZATIONS:



List of Exhibitors

Exhibitor	Booth #	
A-C-T Environmental & Infrastructural, Inc.....	206	Pine Environmental Services, LLC 104
Action Environmental, LLC	218	PPM Consultants, Inc. 304
Alliance for Central Florida Safety	TT-2	PRM Filtration 119
AST Environmental, Inc.	219	REGENESIS / Land Science.....316
Attic Systems Insulation	319	Republic Services, Inc. 216
Betts Drilling, Inc.	210	SGS North America, Inc. 116
Cascade Remediation Services	314	Southern Waste Information eXchange, Inc.....PF
Cliff Berry, Inc.....	300	Summit Drilling, LLC.....118
Connelly & Associates, Inc.	204	Terra Systems, Inc.....211
DeepEarth Technologies, Inc.....	302	Terracon Consultants, Inc. 318
Directional Technologies, Inc.....	111	Tetrasolv Filtration 320
Eco World Water.....	313	The Drone Forum.....PF
EN Rx.....	112	The Sustainable Workplace Alliance.....103
Enviroprobe Services, Inc.	106	Ultra Bag TT-5
EON Products.....	317	US Environmental Rental Corp.....311
ESD Waste2Water, Inc.	117	Walker-Hill Environmental, Inc.....109
ETEC, Inc.....	305	WM 101
Eurofins Environment Testing Southeast.....	308	WSP USA, Inc.....312
Evonik.....	306	
Florida Association of Environmental Professionals (FAEP).....	105	
Florida Association of Professional Geologist (FAPG)	TT-4	
Florida Brownfields Association, Inc. (FBA)	TT-1	
GEOPROBE SYSTEMS®.....	212	
GrayMar Environmental Services, LLC	110	
Griffin Fluid Management.....	307	
GWTT.....	115	
HRP Associates, Inc.....	310	
Hull's Environmental Services, Inc.	107	
Hylant Group, Inc.	207	
JRW Bioremediation, LLC	121	
M&W Drilling.....	113	
Marion Environmental, Inc.....	205	
MK Environmental, Inc.	217	
Onterris.....	213	
Ott/Ajax Rentals.....	TT-3	

PF = Prefunction Area
TT = Table Top



Agenda

Sunday, October 25, 2026

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1:00 pm - 6:30 pm	Conference Registration Open - Rosen Centre Hotel	(Registration Desk 2)
1:00 pm - 4:30 pm	Exhibitor Setup	(Grand Ballroom C)
3:30 pm - 5:00 pm	Pre-Conference Workshop: Managing Risk in Remediation: Funding, Insurance & Project Success	(Grand Ballroom D)
	Moderator: J. David Naughton, CIC, CES , Commercial Risk Management, Acentria Insurance	
	<i>Funding and Insuring Remediation Projects: A Practical Playbook for Florida Cleanup Success</i> Bimal Shah, CEO, The One Year Breakthrough	
	<i>Did you know? Environmental Insurance Edition</i> Jessica Biggs, Managing Director - Environmental Risk, Specialty Services, Hylant Suzi Horn, Environmental Risk Advisor, Hylant Edwin Baez, Specialty Risks - Environmental, Beazley	
5:00 pm - 6:30 pm	Welcome Reception	(Grand Ballroom C)

Monday, October 26, 2026

=====

7:45 am - 7:00 pm Registration Open (Registration Desk 2)

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

8:30 am - 10:00 am **FRC 2026 Opening Session** (Grand Ballroom D)
Emerging Contaminants: Regulations, Standards & Remediation Challenges

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

Moderator: **Howard E. Nelson, Esq.**, Partner, Head of Environmental Practice, Bilzin Sumberg

Emergent Contaminants, Including PFAS and Other Environmental Regulatory Legislative and Litigation Developments

Ralph DeMeo, Esq., Special Counsel, Adams & Reese

Remedial Insanity - Is There a Cure?

Chad Northington, P.E., Senior Remediation Engineer, Geosyntec

ASTM Microplastic and PFAS Standards - A Status Update

Nicholas Albergo, P.E., Professor, Civil and Environmental Engineering Department, University of South Florida and Senior Advisor, GHD Services Limited

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

10:30 am - 12:00 pm **Session I:** (Grand Ballroom D)
Emerging Contaminants: Technical Advances in Assessment and Remediation

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

In Situ Performance of Modified Clay for PFAS Remediation: Multiple Site Reviews

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

Monday, October 26, 2026 (Continued)

=====

10:30 am - 12:00 pm

Session I: (Grand Ballroom D)
**Emerging Contaminants: Technical Advances
in Assessment and Remediation (Continued)**

***Regulatory Risk-Informed Procedures for PFAS Sampling,
Data Management, and Remediation***

Gregory O'Neal, P.G., Senior Geologist, and
Adam Taylor, P.G., Senior Geologist, WSP USA, Inc.

***Emerging Contaminants in Florida's Coastal Landscape:
Laboratory Perspectives on Microplastics and 6-PPD-Quinone***

Jonathan Thorn, Technical Director and PFAS Practice Leader,
Eurofins Environment Testing (USA)

12:00 pm - 1:00 pm

Lunch (Grand Ballroom E)

1:00 pm - 3:00 pm

Session II: (Grand Ballroom D)
Advanced Site Characterization and Remediation Optimization

Moderator: **Donna Cline, P.E.**, Senior Associate, Terrace

***Increasing Contaminant Destruction During Application of
Activated Carbon Reagents for Reductive Groundwater
Remediation***

Dr. Fayaz Lakhwala, Ph.D., Key Accounts Manager - Soil &
Groundwater Remediation, Evonik Corporation

***Passive Flux Meters as a High-Resolution Contaminant
Distribution Characterization Tool***

Christian Parke, Southeast District Technical Manager, Regenesys
Bioremediation

***Drilling Down: Using Horizontal Directional Drilling Pilot Studies to
De-Risk and Optimize Full-Scale Remediation***

Elliott Andelman, P.G., Environmental Project Manager, Directional
Technologies, Inc.

DNAPL Forensics

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

Monday, October 26, 2026 (Continued)

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3:00 pm - 3:30 pm

Refreshment Break - Exhibit Hall

(Grand Ballroom C)

3:30 pm - 5:30 pm

Session III:
Innovative Remediation Technologies for
Complex Contaminants

(Grand Ballroom D)

Moderator: **Chad Northington, P.E.**, Senior Remediation Engineer,
Geosyntec

Treating 1,4-Dioxane Commingled with Chlorinated Ethanes Using
Extended-Release Potassium Persulfate

John Valkenburg, P.E., Senior Engineer & Technical Sales Manager Soil
& Groundwater Remediation, Evonik Corporation

Soil Remediation of PFAS Using Rapid Leaching Technology

Shaun Malin, P.G., Principal & Director of Strategic Development,
HRP Associates, Inc.

Closing the Loop: Full-Scale Chlorinated Solvent Remediation via
Recirculation

Kevin Moore, National Sales Director, ETEC, Inc.

Expanding the Applicability of Air Sparging Using Horizontal Wells

Lance Robinson, P.E., President, EN Rx

5:30 pm - 7:00 pm

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

(Grand Ballroom C)

Raffle Proceeds to Benefit:

JOHNS HOPKINS
ALL CHILDREN'S HOSPITAL



50/50 Raffle

Winner Can Select to Take
Half the Pot in Cash
or a Bottle of
Old Rip Van Winkle 10 Year!



One Ticket \$5
Five Tickets for \$20

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

Tuesday, October 27, 2026

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8:15 am - 12:00 pm	Registration Open	(Registration Desk 2)
8:15 am - 9:00 am	Continental Breakfast - Exhibit Hall	(Grand Ballroom C)
9:00 am - 10:00 am	Session IV: DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup Program	(Grand Ballroom D)
	Panelists: Jennifer Farrell, P.G. , Program Administrator, Waste Cleanup 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: Innovative Technologies Transforming Environmental Remediation	(Grand Ballroom D)
	Moderator: TBD <i>The Human-Centered Approach to Leveraging AI and Drones for Remediation</i> Brendan Brown, Environmental Scientist, CDM Smith <i>Modernizing Dust Management for Arsenic-Impacted Florida Golf Course Redevelopment in Florida</i> Paul R. Pickering, VP Strategic Accounts, Aeroqual and Vincent Levin, Staff Geologist, Langan <i>Combining Sulfidated Zero Valent Iron With Emulsified Vegetable Oil</i> Dr. Michael Lee, Vice-President Research and Development, Terra Systems	
12:00 pm	Adjourn	
11:00 am – 6:00 pm	Golf Outing - Shingle Creek Golf Club	
11:00 am - 12:30 pm	Golfer Sign-in	
12:30 pm	Shotgun Start	



Moderator and Speaker Profiles

J. DAVID NAUGHTON, CIC, CES



J. David Naughton, CIC, CES

J. David Naughton, CIC, CES, Commercial Risk Management, Acentria Insurance

Bio

J. David Naughton, CIC, CES, is a commercial insurance and risk management professional with more than 30 years of experience helping businesses identify, manage, and mitigate risk. With Acentria Insurance, David develops comprehensive insurance and risk management programs for growth-focused organizations and has played an active role in the development and growth of the firm's environmental specialty practice.

David has extensive experience working with environmentally sensitive risks and takes a comprehensive approach to risk management that extends beyond insurance coverage to helping organizations strengthen safety cultures and better manage overall program costs.

Prior to joining Acentria in 2018, David spent 20 years as a Partner, Producer, and Stockholder with Insurance Office of America. He holds the Certified Insurance Counselor (CIC) and Certified Environmental Strategist (CES) designations and has been actively involved in Florida's insurance and environmental professional communities.

BIMAL SHAH



Presentation Title:

Funding and Insuring Remediation Projects: A Practical Playbook for Florida Cleanup Success

Bimal Shah, CEO. The One Year Breakthrough

Abstract:

Remediation projects fail or stall far less often because of science than because of money, risk, and uncertainty. In Florida and across the U.S., owners, consultants, and regulators frequently face the same hidden constraints: unclear risk transfer, fragmented funding sources, insurance exclusions, and fear of “unknown unknowns” on contaminated properties. This session gives environmental professionals a practical, no-hype framework to fund and ensure remediation projects so they can move confidently from investigation to closure. You will see, step-by-step, how to align project risk profiles with the right mix of capital and coverage: traditional lending, specialized remediation financing, private and alternative funding sources, and environmental insurance solutions that actually respond when contamination or cost overruns show up. We will walk through real-world scenarios involving soil and groundwater cleanups, petroleum and heavy hydrocarbon releases, brownfield redevelopment, and complex multi-party sites, focusing on how funding and insurance can either unlock a project or quietly kill it before it starts. The you-focused presentation is designed for a clear result: what you can do on your next project, with your current clients and regulators, to reduce uncertainty, secure capital, and protect all parties. You will learn how to:

- Structure remediation projects so they are “fundable” and “insurable” from day one, not as an afterthought.
- Use risk assessment, environmental data, and clear scopes of work to justify better lending terms and tailored coverage.
- Apply private and non-traditional funding channels to cover investigation, remediation, and even advisory fees without sacrificing ownership or control.
- Avoid common policy gaps, exclusions, and contracting pitfalls that leave consultants, owners, and lenders exposed.

Throughout the talk, I will share concise case-style examples that make the concepts immediately usable, including how one funded, properly insured project turned a perceived liability into a high-value, redeveloped asset. The goal is simple and precise: when you leave this session, you will have a practical playbook you can apply right away to make your remediation projects safer to fund, easier to insure, and faster to close.

Bio:

I help business owners and environmental professionals turn complex, risky projects into clear, funded, and achievable outcomes. Over the past several years, I’ve collaborated with private equity partners, specialty lenders, and technical teams to secure multi-million-dollar funding for growth, cleanup, and redevelopment—often without requiring owners to give up equity or control. My work focuses on designing precise, step-by-step systems that reduce uncertainty: funding frameworks, risk-management protocols, and execution plans that allow teams to reach multi-year goals in dramatically shorter timelines. I’ve created and delivered comprehensive campaigns and programs that integrate capital access, insurance strategy, and operational discipline so projects move from concept to closure with confidence. In speaking engagements and workshops, my style is authentic, practical, and free of hype. Every example and tool is presented in a you-focused way—what you can do next, with the resources you already have. My mission is simple: help you fund and insure the work that matters, protect all parties involved, and achieve results that stand up to scrutiny long after the conference is over.

JESSICA BIGGS, SUZI HORN, EDWIN BAEZ



Presentation Title:

Did you know? Environmental Insurance Edition

Jessica Biggs, Managing Director - Environmental Risk, Specialty Services, Hylant

Suzi Horn, Environmental Risk Advisor, Hylant

Edwin Baez, Specialty Risks - Environmental, Beazley

Abstract:

You might not realize it, but an environmental insurance policy can provide valuable coverage for contaminated properties and parties involved. We will provide an introduction on coverage provided, standard terms and conditions, and how an environmental insurance policy works.

We will also provide real life examples or discussions of how environmental insurance can assist a transaction or provide risk management regarding: 1. Liability protection for Knowns and who is covered 2. Cleanup costs and liability protection for Unknowns 3. Operational coverage 4. Transportation and Disposal coverage 5. Reopener/Emerging Contaminants 6. Indoor Air Quality Concerns 7. Bad Neighbors – Odor, Vapor Intrusion, Bioterrorism

Biggs Bio:

Jessica brings more than three decades of insurance experience across both the agency and carrier sides of the marketplace, including specialized environmental underwriting expertise. She works with clients to identify pollution exposures and develop strategic coverage solutions that address the complex and evolving risks facing their organizations.

As Hylant's Environmental Practice Leader, Jessica maintains strong relationships with environmental insurance carriers and underwriters while helping clients navigate specialized coverage options. She has extensive experience placing a wide range of pollution liability coverages, from traditional insurance solutions to highly customized and complex programs. In addition, she partners with insureds to develop environmental risk mitigation strategies and assists with claim advocacy.



Horn Bio:

Suzi is a licensed attorney and a property and casualty broker with experience in the legal, environmental and insurance sectors. She assists clients with the development of exposure-specific pollution insurance programs and specializes in complex pollution placements.



Baez Bio:

Edwin Baez is an Environmental Underwriter with Beazley Environmental. With over 20 years of environment underwriting experience, Edwin works out of Beazley's Miami office and underwrites site pollution placements for complex brownfield redevelopment sites, real estate transactions, and merger and acquisition risk. He holds a Bachelor of Arts in Earth Science and Bachelor of Science in Environmental Engineering from Columbia University. He completed his MBA at Loyola University Chicago, while living and working in Chicago. He holds CPCU, ARe, CRIS, and CLCS insurance designations.

EUGENE B. JONES



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.

HOWARD E. NELSON, ESQ.

Howard E. Nelson, Esq.

Howard E. Nelson, Esq., Partner, Head of Environmental Practice, 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 notional 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.



RALPH DEMEO, ESQ.



Presentation Title:

*Emergent Contaminants, Including PFOS and Other Environmental Regulatory
Legislative and Litigation Developments*

Ralph DeMeo, Esq., Special Counsel, Adams & Reese

Abstract:

2026 has already been a busy year in terms of emerging contaminants. This is particularly true in the area of PFOS where we've seen federal and state action, including Legislation to address PFOS at airports, public water systems, and in wastewater. The subject of emerging contaminants, PFOS, and other environmental regulatory legislative and litigation topics will be discussed.

Bio:

I have been practicing Environmental law in Florida for over 40 years. I specialize in pollution, hazardous substances, and water law. I am an adjunct professor of law at FSU Law, Stetson Law and Tallahassee State College.

CHAD NORTINGTON, P.E.



Presentation Title:

Remedial Insanity - Is There a Cure?

Chad Northington, P.E., Senior Remediation Engineer, Geosyntec

Abstract:

Background/Objectives:

Understanding technology transitions is key to achieving remedial objectives and closure at sites; however, many projects remain in a state of remedial limbo after the initial technology application has reached its useful life. It is not uncommon for practitioners to continue pursuing the same remedial strategy and failing to evolve the site remedy, a "condition" coined as "remedial insanity" by the presenter.

Approach/Activities:

In situ remediation strategies and reagent selection will be explored to evaluate the most efficient remedial pathway to successful treatment in the subsurface. Best practices will be discussed, including technology transition, factors in developing the conceptual site model, and key parameters in remedial design, to mitigate technical hurdles that can impact overall project success during design and implementation of in situ remediation projects. An emphasis will also be placed on verification of design assumptions and application strategies.

Results/Lessons Learned:

Successful implementation of these strategies will be explored in the context of performance based cleanup (PBC) projects where remedial goals were achieved expeditiously through strategic and surgical application of remedial best practices.

Bio:

Mr. Northington has over twenty-six years of experience as an environmental engineer in the areas of site investigation/assessment, remediation system engineering, construction, and maintenance, project management, in situ remediation design and application, implementation of innovative technologies, and technical sales and support. Mr. Northington also founded and directs a Florida non-profit specializing in community development and outreach focused primarily on water supply, treatment, and distribution in Africa.

NICHOLAS ALBERGO, P.E.



Presentation Title:

ASTM Microplastic and PFAS Standards - A Status Update

Nicholas Albergo, P.E., Professor, Civil and Environmental Engineering Department, University of South Florida and Senior Advisor, GHD Services Limited

Abstract:

ASTM Subcommittees are actively working on microplastic and PFAS assessment standards intended to define a tiered, stepwise approach for planning and conducting the assessment of microplastics and PFAS in the environment to produce defensible, comparable, and fit-to-purpose data. These practices are intended to support environmental investigations, exposure evaluations, and risk-informed decision-making where future regulation is reasonably anticipated and is likely to be driven by human health concerns, recognizing that health-based benchmarks, toxicological understanding, and regulatory criteria remain under active development. Updates of both Standards will be provided.

Bio:

Nick Albergo is a Professional Engineer and Professor in the Civil and Environmental Engineering Department at the University of South Florida and is also Senior Advisor to GHD. He was formerly the founder and CEO of HSA Engineers & Scientists, a Florida-based engineering consulting firm that successfully grew to more than 400 professionals.

The firm was sold to GHD in 2013. He has had a distinguished career as an inventor and author of over 185 professional publications. He has been working within the fields of environmental and water resources engineering for over 40 years. More specifically, he has developed a multidisciplinary forensics and emerging contaminants (PFAS, endocrine-disrupting compounds, analgesics, antibiotics, hormones, and a range of other pharmaceutical compounds) practice with a worldwide reputation for providing insight, advocacy, and remedies to government, public and private clients. He has shaped the rules and regulations that are now in common use throughout the United States. Beyond his domestic efforts as a consultant to industry and to further the profession, he has worked abroad as an advisor to other foreign Governments, private sector corporations, and international lending institutions.

He has also served as a consultant and advisor to various foreign ministries on policy-making issues concerning environmental management and responsible industry practices.

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.

DEREK PIZARRO, CPG



Presentation Title:

In Situ Performance of Modified Clay for PFAS Remediation: Multiple Site Reviews

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

Abstract:

Overburden injection of an organically modified clay (MC) has been demonstrated on several pilot programs using direct push technology (DPT) and high-solids slurry batching and injection equipment. Field deployments of MC were conducted in a demonstration project in Kentucky, pilot sites in California and Alberta, Canada, and multiple phases at a large Site in the Western US refinery site to prove the injectability, evaluate performance of the technology, and be utilized for plume wide treatment in source (grid) and plume bisection (PRB) deployments. Now, these projects have been in the ground from months to several years, each is a unique design from a geology or product co-mixing standpoint. This presentation focuses on a review of their installation lessons learned and the product performance of PFAS mitigation to date in coarse and fine overburden geologies. In the Kentucky example, examining increasingly dense and higher solids mixes to mimic site situations where significant product mass would be matched to significant PFAS mass. The slurry designs and specifications will be discussed from bench scale evaluation to field deployment, and the lessons learned from varying the ratios of product and carrier fluid (water). In Alberta, MC was installed as a PRB with a continued PFAS source upgradient. The performance and longevity of this installation will be discussed, along with groundwater monitoring data and post-injection soil core dye evaluation of product distribution using a newly developed MC dye test. A hydraulic conductivity evaluation was also performed. For the California site, the MC was co-injected with calcium polysulfide (CaSx) for treatment of both PFAS and hexavalent chromium, proving slurry design flexibility and compatibility. The performance of this installation will be discussed with regards to PFAS. For the refinery site, the MC clay was injected into three separate phases. Each phase built off the previous installation based on the speed, ease, and distribution learned from the previous phase. With easy installation via high energy injection, these phases were optioned and installed in rapid fashion. The MC used in these field demonstrations for remediation of PFAS is manufactured by applying an organic chemical modifier to US-mined bentonite clay. The resultant product has high sorption kinetics, significant sorption capacity, is effective across a wide range of PFAS concentrations, and, if necessary, is compatible for co-mixing with many other common site remediation reactants. Competitive adsorption was tested with co-contaminants at several site and bench tests, such as chlorinated volatile organic compounds (CVOCs) and petroleum hydrocarbons (PHCs). Previous presentations and literature discuss comparative assessment of MC with ion exchange resin (IX), GAC, and biochar, and some examples will be provided for reference in this presentation.

Bio:

Derek Pizarro, CPG is a Senior Geologist for AST Environmental, Inc. He is a Certified Professional Geologist and has 22 years of experience in environmental applications, specifically contaminant transport studies, permeable reactive barrier (PRB) design, injectate design and manufacturing, and reagent bench-scale testing and design for environmental sites and industrial process waste streams. Derek has contributed to bench 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 Environmental Products Director for a chemical manufacturer, developing chemistries for treatment of inorganic contaminants, EISB additives, sediment applications, and injectates for use in PRBs. He received a Bachelor of Science in Geology and Environmental Geosciences and a Bachelor of History from Lafayette College.

GREGORY O'NEAL, P.G., AND ADAM TAYLOR, P.G.



Presentation Title:

Regulatory Risk-Informed Procedures for PFAS Sampling, Data Management, and Remediation

Gregory O'Neal, P.G., Senior Geologist, and Adam Taylor, P.G., Senior Geologist, WSP USA, Inc.

Abstract:

Regulatory Risk-Informed Procedures for PFAS Sampling, Data Management, and Remediation

Per- and polyfluoroalkyl substances (PFAS) present a unique regulatory risk profile due to their chemical persistence, evolving toxicity benchmarks, and rapidly expanding federal and state regulatory frameworks. As enforceable standards advance across drinking water, groundwater, surface water, and soil programs, the timing and structure of PFAS sampling, data collection, and remedial response have become as critical as the analytical results themselves. From a regulatory perspective, PFAS sampling programs must be designed to support not only current requirements but also foreseeable future thresholds, including enforceable maximum contaminant levels, mixture-based risk metrics, and site-specific cleanup criteria. Decisions regarding when and how data are generated—such as distinguishing among characterization, compliance, confirmation, and remedial monitoring phases—directly influence regulatory interpretation, enforcement posture, and a site's ability to transition efficiently toward closure. Equally important, PFAS data collection strategies must incorporate clearly defined data quality objectives, contamination avoidance controls, and robust metadata management to ensure long-term usability as analytical methods, detection limits, and regulatory expectations continue to evolve. PFAS remediation decision-making further requires a risk-based screening framework that integrates exposure pathways, land and water use, regulatory jurisdiction, and remedy implementability. Rather than relying on prescriptive technology selection alone, a regulatory risk-informed approach emphasizes adaptable remedial strategies, treatment-train compatibility, and long-term stewardship considerations that remain resilient under regulatory uncertainty. This presentation will demonstrate how risk-informed planning across sampling, data management, and remediation supports defensible environmental assessment, accelerates regulatory decision-making, and reduces business and legal risk. Case examples will illustrate how structured approaches to characterization, fate and transport, risk assessment, and remedy selection can expedite site closure while maintaining flexibility to accommodate emerging contaminants, evolving standards, and redevelopment objectives.

Gregory O'Neal Bio:

To be submitted.



Adam Taylor Bio:

Adam Taylor is a licensed professional geologist at WSP USA, Inc. in Tampa, Florida. He has 10 years of experience in field hydrogeology, soil and groundwater contamination assessment, and site remediation assessments for a diverse set of clients in Florida. His project experience also includes Phase I and Phase II environmental site assessments, preparation and management of Spill Prevention Control and Countermeasure (SPCC) plans and Stormwater Pollution Prevention Plans (SWPPPs), oversight of contaminated soil excavations, and emergency response actions during site development. Adam has also been involved with managing a variety of sites as part of the Petroleum Restoration Program (PRP). Adam holds a BS, Environmental Science and Policy, BS, and MS, Geology, all from the University of South Florida.

JONATHAN THORN



Presentation Title:

Emerging Contaminants in Florida's Coastal Landscape: Laboratory Perspectives on Microplastics and 6-PPD-Quinone

Jonathan Thorn, Technical Director and PFAS Practice Leader, Eurofins Environment Testing (USA)

Abstract:

Florida's coastal ecosystems — coral reefs, seagrass beds, mangrove shorelines, and the species that depend on them — are increasingly the subject of emerging contaminant research that the remediation community is only beginning to engage with. Two contaminant classes drawing growing scientific attention are microplastics and 6-PPD-quinone (6-PPD-Q), a tire rubber antiozonant transformation product mobilized through stormwater runoff. For remediation professionals working at urban and peri-urban sites with discharge to Florida's coastal and estuarine receiving waters, understanding what environmental laboratories can realistically measure for these contaminants is a practical and timely question. Microplastics have been documented in Florida Keys seagrass beds, sand flats, and coral reef tissues, with microfibers as the dominant morphology — a finding that connects directly to stormwater and wastewater pathways relevant to remediation site characterization. This presentation surveys current laboratory methods for microplastic analysis, including visual identification, micro-FTIR, and Py-GC/MS, with a candid look at their respective tradeoffs in sensitivity, throughput, cost, and data defensibility in the absence of approved EPA methods. For 6-PPD-Q, the discussion covers targeted LC-MS/MS analytical capabilities and achievable detection limits relative to toxicity thresholds established through studies of sensitive fish species. Research to date has documented acute toxicity in several salmonids — including coho salmon, brook trout, rainbow trout, and coastal cutthroat trout — at environmentally relevant concentrations, while other closely related species show little to no response, underscoring the highly species-specific nature of 6-PPD-Q sensitivity. Florida's ecologically and recreationally significant fish species have not yet been evaluated in this context, representing an area where site investigators would benefit from awareness as the science continues to develop. Attendees will leave with a practical framework for engaging laboratory partners, evaluating analytical proposals, and designing investigations that account for data quality limitations in the evolving landscape of pre-regulatory contaminants.

Bio:

Jonathan Thorn joined the Eurofins team as the Technical Director and PFAS Practice Leader in January 2024. Jon has worked in the field of environmental analytical chemistry for over 31 years. For the last 12 years, his primary focus has been the analysis of PFAS in environmental samples, focusing on development and implementation of analytical methods in difficult matrices, including ground water, wastewater, landfill leachate, sediment, soil, biosolids, environmental tissues, agricultural products, animal blood, and consumer products. He received his B.S. in chemistry from Bridgewater State University in 1996.

DONNA CLINE, P.E.



Donna Cline, P.E.

Donna Cline, P.E., Senior Associate, Terracon

Bio:

Ms. Cline is an effective technical writer for remedial action plans for environmental cleanups, remedial alternative studies, and construction implementation plans for remediation systems for hazardous waste, non-hazardous waste, pesticide, petroleum, and chlorinated solvent sites pursuant to the Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Recovery and liabilities Act (CERCLA), and the Florida Department of Environmental Protection (FDEP) programs. She routinely interfaces with the clients, regulators, and other project personnel in her role as the Engineer-of-Record.

She has evaluated, designed and implemented in-situ remedial technologies to include air sparging, bio sparging, soil vapor extraction (SVE), chemical oxidation, dual phase extraction (DPE), Nonaqueous phase liquid (NAPL) recovery, and innovative in-situ technologies such as lactate, soybean oil and zero valent iron (ZVI) injection, and oxygen infusion.

She has also authored and received approval for Stormwater Pollution Prevention Plans, Quality Assurance Project Plans (QAPP) and National Pollutant Discharge Elimination System (NPDES) permit application plans.

Specialties: Remedial Engineering Design, Environmental Site Investigation, Risk Based Management Options

DR. FAYAZ LAKHWALA, PH.D.



Presentation Title:

Increasing Contaminant Destruction During Application of Activated Carbon Reagents for Reductive Groundwater Remediation

Dr. Fayaz Lakhwala, Ph.D., Key Accounts Manager -Soil & Groundwater Remediation, Evonik Corporation

Abstract:

Background/Objectives:

It is well-established that activated carbon reagents used for groundwater remediation are effective for removal of many dissolved phase organic contaminants by adsorption. Recently, there has been an increased recognition that some contaminants can be degraded even after they have been adsorbed by these reagents. The relative rates of contaminant adsorption and contaminant degradation will determine the effective longevity of reagents that include activated carbon. Long-term monitoring at some sites has indicated that adsorption sites of activated carbon can become saturated and the rate of biodegradation of adsorbed contaminants is not sufficient to overcome the continued mass loading. The objective of this presentation is to highlight the benefits associated with activated carbon reagents that are designed to promote strong degradation of organic contaminants after their adsorption and thereby enable greater longevity of treatment.

Approach/Activities:

The authors will review and the major classes of activated carbon reagents available for reductive remediation of groundwater including their composition including physical and chemical characteristics as well as potential for delivery of reducing equivalents to chlorinated organic compounds after their adsorption on/in activated carbon. Evonik has developed an in situ chemical reduction (ISCR) reagent composed of microscale zero valent iron + extended-release organic carbon + activated carbon to enable both adsorptive removal of dissolved contaminants and strong reductive dechlorination of both contaminants in the aqueous phase and those adsorbed to the activated carbon. The composition of the reagent is designed to ensure strong reductive dechlorination of contaminants both before and after they have been adsorbed by the activated carbon. The results from two completed in situ remediation projects where this reagent (EHC® Plus) was applied will be presented and discussed from the perspective of performance and cost.

Results/Lessons Learned:

Results from a long-term column study indicated that a column packed with aquifer solids and treated with the activated carbon-enhanced ISCR reagent removed PCE, TCE, cis-1,2-DCE, 1,2-DCA, CT, CF, and DCM to below method detection limits until the testing was terminated after 481 days of continuous flow representing more than 200 pore volumes. The total chlorinated VOC concentration in the groundwater entering the column was approximately 4,000 µg/L. Injection of the activated carbon-enhanced ISCR reagent at a former industrial site generated strong reducing conditions, rapid reduction of native sulfate, an increase in *Dehalococcoides* sp. cell count of more than three orders of magnitude, and extensive reductive dechlorination of chlorinated ethenes with very little accumulation of partial degradation products. Detailed results from this site and a second site will be presented.

Bio:

Fayaz currently serves as the Key Accounts Manager within Evonik's Soil and Groundwater group. He holds M.S. and Ph.D. degrees in Chemical Engineering with a minor in Environmental Science. He has 30 years of experience in site remediation with roles in technology development, remediation, site investigation, project management and business development. In the past 20 years, his focus has been on the design and application of in situ chemical oxidation (ISCO), in situ chemical reduction (ISCR), enhanced reductive dechlorination (ERD), NAPL stabilization and treatment of heavy metals in soil and groundwater. Besides the US, he has worked on projects in several Asia Pacific and European countries.

CHRISTIAN PARKE



Presentation Title:

Passive Flux Meters as a High-Resolution Contaminant Distribution Characterization Tool

Christian Parke, Southeast District Technical Manager, Regenesi Bioremediation

Abstract:

In-situ remediation of aquifers is one of the most cost-efficient methods for the cleanup of contaminated sites. This type of groundwater remediation relies on a number of factors for a successful application, chiefly among them being the interaction of the remedial reagent with the contaminated zone. Proper vertical application of the reagent is paramount. No matter the product, if the reagent does not produce its designed effect on the correct vertical interval within an aquifer, the money spent on that product has been wasted. Flux meters provide a suite of high-resolution data detailing the horizontal movement of contaminants across any specified vertical interval at a 1-foot vertical scale. While monitoring wells, hydraulic gradient estimates, and soil cores provide useful data in the mapping of contaminated groundwater plumes, they lack the meaningful datapoints to provide anything other than a high level, conceptual view of contaminant transport through an aquifer. Flux meters provide hard data on these key metrics. Understanding the movement of a contaminant within a plume can lead to a more efficient and cost-effective installation of remedial products and fewer under-performing sites. Flux meters measure groundwater velocity and contaminant flux within an aquifer. Contaminant (or mass) flux is defined as the movement of mass through a defined cross-sectional area over a specified period of time. Identifying these transport zones can either shrink an existing vertical contaminated zone, saving the end-user money on unused product or expand the vertical treatment zone to include a previous unknown contaminant transport zone, saving the time of future reapplications or delays in site closure. Knowing this measurement at key points within a groundwater plume can save time in the site evaluation process and money on the field application of a reagent.

Bio:

Christian Parke is the Southeast District Manager with Regenesi. He is going on seven years with Regenesi after starting with their application services team and moving into Remediation Design and Sales District Management. During his tenure with Regenesi, Christian has designed and implemented innovative remedial technologies on hundreds of chlorinated solvent, petroleum hydrocarbon, and PFAS sites. Originally from Alabama, Christian is a geologist by training with a Bachelor of Science degree from Auburn University. He now serves clients across the Southeast from his home in Greenville, South Carolina.

ELLIOTT ANDELMAN, P.G.



Presentation Title:

Drilling Down: Using Horizontal Directional Drilling Pilot Studies to De-Risk and Optimize Full-Scale Remediation

Elliott Andelman, P.G., Environmental Project Manager, Directional Technologies, Inc.

Abstract:

Background/Objectives:

The remediation requires significant capital investment and long-term operational commitment. While Horizontal Directional Drilling (HDD) offers a proven, less intrusive, and highly effective method for installing long, screened intervals for in-situ remediation (e.g., injection, extraction, or ISCO), the upfront costs and uncertainty regarding subsurface heterogeneity can pose a significant barrier for site owners and regulators. Our primary objective is to demonstrate the critical role of well-designed HDD pilot studies as a risk-reduction tool and economic gatekeeper to reliably predict the technical performance and costs of a full-scale horizontal well network. By establishing clear pilot data, stakeholders can confidently transition to full-scale implementation or pivot to alternative strategies, thus avoiding costly project failures and accelerating site closure.

Approach/Activities:

This presentation will detail HDD pilot studies. Our approach involves: 1. Precision Planning and Installation 2. Performance Baseline Establishment 3. Cost Analysis 4.

Results/Lessons Learned:

We will present a comparative analysis of three example projects: Case A (Go): A former industrial site where the pilot ROI confirmed favorable geology and the calculated full-scale network delivered a cost-effective solution, leading to successful implementation. Case B (No-Go/Pivot): A complex urban site where the pilot ROI was unexpectedly low, revealing that the resulting full-scale well count made the HDD approach financially unviable. Case C (Wait): A former manufacturing site where the pilot bore is successful "enough" to withhold immediate next steps. The primary value of the pilot isn't just technical performance; it's de-risking the entire project for the client from a feasibility and financial standpoint.

Bio:

Mr. Andelman is an Environmental Scientist and Licensed Professional Geologist who works for Directional Technologies, Inc. (DTI), a company that specializes in the design, drilling, and installation of horizontal remediation wells. He now works with environmental consultants to assess how horizontal remediation wells may benefit their more challenging remediation projects.

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



Presentation Title:

DNAPL Forensics

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

Abstract:

Forensics involves a complex set of analytical schemes. From a simple Tier 1 analysis through a complex Tier 2 analysis followed by Tier 3 isotopic analysis. This presentation will focus on the Tier 2 DNAPL Forensics. DNAPL forensics involves matrices such as crude oil and heavier oils. This presentation involves discussion of Saturated Hydrocarbons, PAH/APAH and Biomarker analysis based on the characterized product from the Tier 1 Whole Oil Analysis. Mechanisms to determine the source of the product and the various weathering patterns will be highlighted. Determination of the characteristics of a product such as petrogenicity, pyrogenicity or biogenic transformations that occurs in the environment. Diagnostic ratio determination and application of statistical methods for source determinations will be discussed. Case study will be presented.

Bio:

Dr. Doss has more than 40 years' experience in the analytical chemistry field. Dr. Doss's expertise spans chemistry, environmental analysis, hydrocarbon chemistry (gas and liquids), forensics, industrial hygiene (managed an AIHA accredited lab for 10 years), Air analyses (TO compendium methods), Dioxins/Dibenzofurans, PCB Congeners, emerging contaminants – PFAS, 6-PPD, 6-PPDQ, microplastics, biota analyses, hazardous waste management, client services, management of laboratories, laboratory builds, data validation, data management, laboratory audits, litigation support and QA services. Dr. Doss received his Juris Doctorate from Southern University Law Center with honors, where he was a Law Review Editor and is licensed to practice law in Louisiana, currently. He earned his Ph.D., Engineering (Environmental Science) from the University of Oklahoma, Norman, OK. M.S. in Chemistry from Wichita State University, Wichita, KS. B.S. in Chemistry from Loyola College, University of Madras, India.

CHAD NORTINGTON, P.E.



Chad Northington, P.E.

Chad Northington, P.E., Senior Remediation Engineer, Geosyntec

Bio:

Mr. Northington has over twenty-six years of experience as an environmental engineer in the areas of site investigation/assessment, remediation system engineering, construction, and maintenance, project management, in situ remediation design and application, implementation of innovative technologies, and technical sales and support. Mr. Northington also founded and directs a Florida non-profit specializing in community development and outreach focused primarily on water supply, treatment, and distribution in Africa.

JOHN VALKENBURG, P.E.



Presentation Title:

Treating 1,4-Dioxane Commingled with Chlorinated Ethanes Using Extended-Release Potassium Persulfate

John Valkenburg, P.E., Senior Engineer & Technical Sales Manager Soil & Groundwater Remediation, Evonik Corporation

Abstract:

Background:

1,4-Dioxane is a probable human carcinogen and emerging contaminant of concern in the United States and in other countries. Historically it was commonly used as a stabilizer with chlorinated solvents. 1,4-Dioxane is readily degraded by powerful oxidative radicals, but only biologically degraded under very specific circumstances. It is most often present at sites co-mingled with the chlorinated solvents it stabilized. The co-mingling of 1,4-Dioxane with chlorinated solvents complicates site treatment as 1,4-dioxane is typically treated using an oxidative or aerobic pathway and the chlorinated solvents are best treated with reductive pathways. Properly activated, persulfate forms both oxidative and reductive radicals, making it ideal for simultaneously addressing 1,4-dioxane and chlorinated ethanes. 1,4-Dioxane is atypical as compared to these comingled contaminants as it is miscible in water and has a very low organic carbon partitioning coefficient (Koc). As a result of these unique partitioning and transport characteristics, it is relatively more present in groundwater than on soil as compared to these comingled contaminants. Accordingly, smaller volume injections of extended-release potassium persulfate slurry are generally preferred for establishing oxidant/contaminant contact while avoiding 'pushing' out the more aqueous-phase 1,4-dioxane plume.

Approach:

In Situ chemical oxidation using activated potassium persulfate was evaluated at two separate sites contaminated with a mixture of 1,4-dioxane, chlorinated ethenes, and chlorinated ethanes. The sites were first evaluated in a series of column reactors where site groundwater was run through the columns until the potassium persulfate had been consumed. Two different activation chemistries were evaluated at the bench: (1) iron activation using zero-valent and (2) alkaline activation using hydrated lime. Although both activation chemistries demonstrated complete treatment of 1,4-dioxane to below the detection limit, hydrated lime was selected for the subsequent pilot and full-scale field implementation due to its ability to also treat the full suite of contaminants present, including dichloroethanes (1,1-DCA and 1,2-DCA).

Results:

Field data not only evaluated treatment effectiveness and the potassium persulfate persistence under flow-through conditions in a Permeable Reactive Barrier (PRB) configuration. Performance monitoring showed a reduction of 1,4-dioxane, chlorinated ethene, and chlorinated ethane concentrations to below the detection limit within the PRB. Significant reductions in groundwater concentrations were also observed downgradient from the PRB over time. The geochemical data indicated that the potassium persulfate was persisting as expected based on the observed groundwater velocities and temperature.

Bio:

John has over 40 years of industry experience and is a professional engineer (Michigan). John and his wife enjoy their dog, cat, and 3 horses.

SHAUN MALIN, P.G.



Presentation Title:

Soil Remediation of PFAS Using Rapid Leaching Technology

Shaun Malin, P.G., Principal & Director of Strategic Development, HRP Associates, Inc.

Abstract:

HRP Associates, Inc (HRP) will present the results of a field pilot study completed at a military installation of proprietary technology used to remediate PFAS in soil. The technology uses a unique and patented filtration system that allows soil to be fully saturated with water and then rapidly dewatered in a watertight containment cell constructed from geomembrane and geosynthetic clay liners. The generated leachate is collected in a secondary watertight cell that is similarly constructed and then pumped through a wastewater treatment system to remove PFAS for future destruction or disposal. The treated water is then reused and the process repeated. This PFAS remediation process is referred to as Rapid Leaching Technology (RLT). RLT is easily scalable and can be designed to manage any weekly throughout (i.e., <100 cubic yards or >1,000 cubic yards). RLT works by fully saturating soil, removing the micro-NAPL layer, and then rapidly de-watering the soil. Once the soil is saturated, the highly soluble PFAS contamination within the soil matrix is partitioned into a liquid phase. Once in a liquid phase, the PFAS analytes can be easily removed and consolidated through a wastewater treatment process. The soil is then re-saturated with the treated water within the containment cell as necessary until the desired PFAS removal limits have been obtained (i.e., EPA Regional Screening Levels). Three separate benchtop studies of the RLT remediation technology have documented average total PFAS removal ranging from 89 to 93 percent per rinse cycle. The technology removed 94 to 100 percent of the five PFAS analytes regulated by the EPA. Total PFAS is defined as the sum of all reported PFAS analytes included in EPA Method 1633. Additional rise cycles can be incorporated into the technology to achieve additional PFAS removal. The benchtop studies used three and four rinse cycles to determine the effectiveness.

Bio:

Shaun Malin has 22 years of experience in the environmental consulting industry and currently serves as HRP's Director of Strategic Development. Shaun's expertise spans key environmental regulations such as the Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and the Toxic Substances Control Act (TSCA). His notable projects include a time-critical PCB removal action mandated by USEPA Region 4, remediation of chlorinated solvents beneath active manufacturing facilities, vapor intrusion assessments, industrial lagoon and surface impoundment cleanups, and landfill leachate investigations. He also specializes in risk-based remedial strategies for brownfield redevelopment and the management of plant decommissioning and decontamination projects.

His project portfolio includes sites impacted by chlorinated solvents, petroleum hydrocarbons, PCBs, PFAS, and heavy metals, serving a diverse range of industrial, commercial, academic, and municipal clients nationwide. Shaun's deep understanding of contaminant transport and remediation, combined with innovative problem-solving, has led to successful outcomes for HRP's clientele. He maintains strong working relationships with regulatory agency staff throughout the South and across the country, ensuring effective communication, practical guidance, and project success.

KEVIN MOORE



Presentation Title:

Closing the Loop: Full-Scale Chlorinated Solvent Remediation via Recirculation

Kevin Moore, National Sales Director, ETEC, Inc.

Abstract:

Background/Objectives:

A former dry-cleaning facility in a commercial shopping center, operational for several decades, caused groundwater contamination with chlorinated volatile organic compounds (CVOCs), including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride. Releases through a floor drain and in the area upgradient of the building created a source zone beneath the structure. Assessments delineated CVOC plumes in a shallow sandy aquifer, posing vapor intrusion risks to occupied space above.

Approach/Activities:

Enhanced In Situ Bioremediation (EISB) via enhanced reductive dechlorination (ERD) was deployed using ETEC's CarBstrate™, a nutrient-amended, carbohydrate-based electron donor, distributed by the In Situ Delivery (ISD™) system. The system treated a 60,000-square-foot source area, with emphasis on treatment beneath the building via three horizontal injection wells installed using directional drilling at 4-6 ft bgs as blind bores. Groundwater was extracted from five wells, amended with CarBstrate™, and reinjected at 4 gpm via nine vertical and three horizontal wells, targeting vadose zone soils and the shallow groundwater zone. Over a two-year period approximately 4.5 million gallons of amended groundwater was recirculated.

Results/Lessons Learned:

Monitoring during and after treatment confirmed achievement of very low Florida CGTL cleanup goals, reducing peak CVOC concentration from 16,000 µg/L CVOCs. Very little to no rebound occurred during the two-year groundwater recirculation treatment and during the seven-year post remedial monitoring period. This study validates ETEC's CarBstrate™ and ISD™ for scalable EISB applications at urban sites, particularly highlighting horizontal injection efficacy of horizontal injection for sub-slab CVOC attenuation through enhanced desorption and microbial dehalogenation, all without disrupting business operations. Key findings include substrate dosing optimization, low-disturbance system installation, and data analysis.

Bio:

National Technical Director | Bioremediation Specialist We bridge the gap between complex site geochemistry and rigid regulatory frameworks to design high-performing environmental remediation solutions. Kevin leverages over two decades of specialized expertise in bioremediation, groundwater recirculation, and advanced product dosing mechanics to solve complex subsurface contamination challenges nationwide. Kevin excels at translating sophisticated site characterization data into actionable, scientifically sound engineering strategies. His technical authority is grounded in an in-depth understanding of microbial kinetics, electron donor delivery, and contaminant degradation pathways. Known for his methodical approach to site modeling and system optimization, he excels at leading technical engineering teams, mentoring junior specialists, and implementing robust data-driven operational frameworks. Kevin holds a degree from the University of California, Santa Barbara, and actively contributes to the advancement of the field as a peer mentor, speaker, and technical session chair at major national environmental engineering conferences.

LANCE ROBINSON, P.E.



Presentation Title:

Expanding the Applicability of Air Sparging Using Horizontal Wells

Lance Robinson, P.E., President, EN Rx

Abstract:

A common design obstacle for air sparging is the presence of a dense or semi-confining layer immediately beneath a thin plume. Conventional guidance often discourages air sparging under these conditions because there is insufficient depth below the plume for the injected air to develop the characteristic parabolic distribution before rising through the treatment zone. However, this limitation may not apply to horizontal air sparge wells. Because air is introduced continuously along the length of the horizontal well, treatment does not depend on the development of an expanding ROI vertically, allowing effective treatment in hydrogeologic settings that are often considered unsuitable for conventional vertical sparging. This presentation describes a Central Florida petroleum site where horizontal air sparge wells installed only approximately 7 feet into the water table achieved rapid BTEX reduction despite a lower clayey unit that precluded conventional sparge depths. The horizontal system also minimized disruption at a high-volume service station with a very small treatment footprint, requiring short bores 150 to 216 feet for horizontal well installation. The site achieved regulatory closure within approximately three years. This case study demonstrates that horizontal air sparging can expand the applicability of air sparging to sites where conventional design guidance would otherwise limit its use.

Bio:

Lance I. Robinson, P.E., is the President of EN Rx and co-developed the Vertebrae™ Well Systems and the EN Rx Support Platform (SP) technologies during his 13-year tenure. Prior to EN Rx, Robinson worked for 10 years as a design and assessment engineer for various environmental consultants in the remediation industry. His experience spans projects in petroleum, pesticides, and solvent remediation, completing projects from inception through closure. Robinson graduated from the University of South Florida with a B.S. in Chemical Engineering.

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:

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

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

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.

BILLY HESSMAN, P.G.



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

Bio:

Billy has more than nine years of experience managing the assessment and cleanup of contaminated sites in Florida through the Florida Department of Environmental Protection's Waste Cleanup and Petroleum Restoration Programs. He holds a Bachelor of Science degree in Geology from Florida State University and is a licensed Professional Geologist in the State of Florida.

BRENDAN BROWN



Presentation Title:

The Human-Centered Approach to Leveraging AI and Drones for Remediation

Brendan Brown, Environmental Scientist, CDM Smith

Abstract:

AI and drones are the wave of the future but how do we fully leverage these innovative tools while retaining the vital input and decision making of subject matter experts? To do this we need to understand the AI tools available and when they are appropriate to answer the questions before us. This talk will define types of AI models as they relate to remediation and draw the distinction between large language models like chatgpt (that weren't built to solve the challenges facing remediation practitioners) and custom built models. Additionally, environmental sensors pertinent to remediation will be summarized. Updated and new case studies highlighting drone data collection to data analysis to decisions will be presented on excavation and cap monitoring, thermal investigations for evaluating SW/GW interactions, and monitoring of site restoration.

Bio:

Mr. Brown is a principal scientist at CDM Smith with over 20 years in the environmental industry. He has over 8 years of experience working with drones and machine learning to evaluate environmental sites. He leads Sky Wave at CDM Smith which combines advanced remote sensing and AI to develop environmental solutions.

PAUL R. PICKERING AND VINCENT LEVIN



Presentation Title:

Modernizing Dust Management for Arsenic-Impacted Florida Golf Course Redevelopment in Florida

Paul R. Pickering, VP Strategic Accounts, Aeroqual and Vincent Levin, Staff Geologist, Langan

Abstract:

Challenge:

Redevelopment of a former golf course in Naples, Florida, required managing potential dust emissions from areas with arsenic-impacted soils. With residential neighborhoods surrounding much of the site, the project team sought a proactive approach to provide real-time visibility into site conditions and enable rapid response when dust controls were needed. Traditional monitoring methods required frequent site visits and manual data review, creating logistical challenges for a long-duration project located several hours from Langan's Tampa office. The team needed a remote monitoring solution that would provide continuous data, improve decision-making, and reduce unnecessary mobilizations while maintaining effective oversight of evolving construction activities.

Solution:

Langan deployed an autonomous air quality network to remotely monitor PM10 (dust) and meteorological data. The innovative monitoring system provided continuous, real-time visibility into site dust conditions throughout construction, allowing the project team to proactively coordinate dust-control measures with the contractor. The system reduced data gaps, minimized routine site visits, and improved oversight of a large-scale earthwork program from a remote office location. This project demonstrates how remote monitoring technologies can improve efficiency, reduce costs, and effectively manage community concerns during redevelopment projects.

Learning Objectives:

1. Identify and compare the operational efficiency of implementing remote, real-time dust monitoring systems versus traditional manual monitoring for large-scale redevelopment projects in Florida.
2. Assess the value of remote, real-time monitoring for improving response times, boosting confidence in environmental data, facilitating stakeholder communication, and translating complex long-term data into clear, actionable insights for project teams and communities.

Pickering Bio:

Paul R. Pickering is VP of Strategic Accounts at Aeroqual and a trusted advisor in air monitoring technology, with more than 20 years of experience supporting environmental consultants. He has presented at industry conferences, collaborated with regulatory agencies, and visited client sites in more than 40 countries. Paul serves as Chair of the Air Measurement Technologies and Instrumentation Technical Coordinating Committee for the Air & Waste Management Association (AWMA).



Levin Bio:

Vincent Levin is a Staff Geologist at Langan Engineering & Environmental Services in Tampa, specializing in environmental assessment, remediation, and redevelopment. He has expertise in air monitoring, large environmental datasets, and contaminated-site oversight. Vincent manages projects from due diligence and site assessment through construction, soil management, and health and safety measures. He holds a bachelor's degree in geology from the University of South Florida.

DR. MICHAEL LEE, PH.D.



Presentation Title:

Combining Sulfidated Zero Valent Iron With Emulsified Vegetable Oil

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

Abstract:

Laboratory batch and column studies were conducted to compare the ability of several sulfidated zero valent iron (ZVI) particles to react with halogenated solvents at different loadings, incubation times, and bioaugmentation culture. The impact of several iron and sulfur containing compounds including ferrous gluconate, ferrous lactate, ferrous sulfate, and ferrous sulfide (mackinawite) alone and in combination with emulsified vegetable oil (EVO) were evaluated. Sulfate additions can promote sulfidation of ZVI to increase abiotic reactions. Laboratory batch studies were completed across a diverse range of conditions – ZVI particle sizes, ZVI loadings of 1 to 11 g/L, with and without sulfidation, with and without soluble sulfate and organic substrate electron donors. Contaminants included chlorinated ethenes (CEs) such as tetrachlorethene (PCE), trichloroethene (TCE); chlorinated methanes (CMs) such as carbon tetrachloride (CT), chloroform (CF); chlorinated ethanes (CAs) such as 1,2-dichloroethane (2DCA), 1,1,1-trichloroethane (1,1,1-TCA); bromoform (BF), and ethylene dibromide (EDB). Column tests were conducted with four ZVI particles at 4% loadings in sand and a sulfidated ZVI particle or combinations of 10 g/kg of a small ZVI particle, EVO, and a ferrous sulfide solution (FSS). The addition of sulfide to the ZVIs generally increased the extent and rate of dechlorination for PCE, 1TCA, and EDB over the corresponding untreated ZVIs. CT or BF generally were degraded almost to completion using ZVI with and without sulfide. In the column studies, 4% by weight ZVI loading resulted in average CE removals from the influent of 79% (with 130 μ m ZVI) to a maximum of 98% (smaller ZVI). With the 130 μ m ZVI particle, the addition of sulfide increased the average CE removal from 79% to 93%. Another column study showed greater removals of the parent and daughter products with the combinations of ZVI and FSS than ZVI alone. ZVI loadings > 4 g/L and in combination with sulfidation and organic substrates, was shown to be very effective in degrading many solvents. In another lab study, chlorinated ethene degradation was 69% with the EVO, ZVI, and Dehalococcoides and increased to 98% with addition of soluble sulfate and nutrients. The combination of small and large droplet EVO, ZVI, ferrous sulfide, nutrient, and sulfate blend and bioaugmentation culture was effective in treating overburden and bedrock zones of a redevelopment project. Reductions of chlorinated ethenes of 98 to 99% were observed in the overburden and between 92 to 99% reductions in the bedrock treated with large droplet EVO, two sulfidated ZVI particles, bioaugmentation, and nutrient and sulfate blend. At a dry cleaner site, EVO, EVO + sulfidated ZVI, sulfate, and bioaugmentation culture were applied in a dense silt with sand and gravel aquifer. Within 13 months, between 95 to >99% of the CVOCs were reduced. In a pilot at a site with interbedded sand, silt, and clay layers, up to 160 mg/L TCE was reduced by >99.9% with EVO, ZVI, pH buffer, nutrients, sulfate, and bioaugmentation. At a sandy site in Central Florida, EVO was detected up to 25 from the injection point. EVO with ZVI was distributed in thinner zones.

Bio:

Dr. Michael D. Lee is Vice-President of Research and Development at Terra Systems. (TS) of Claymont, DE, USA, a consulting and service firm specializing in the development and application of technologies for the bioremediation of surface and subsurface contaminants. He has a Doctor of Philosophy (1986) and Master of Science (1983) degrees in Environmental Science and Engineering from Rice University and a Bachelor of Science degree in Biology from University of Louisiana at Monroe (1980). Dr. Lee has over 40 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 develops new emulsified vegetable oil (EVO), EVO and zero valent iron, and other bioremediation products for TS.

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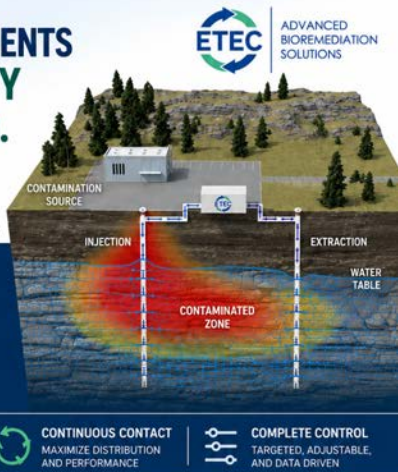
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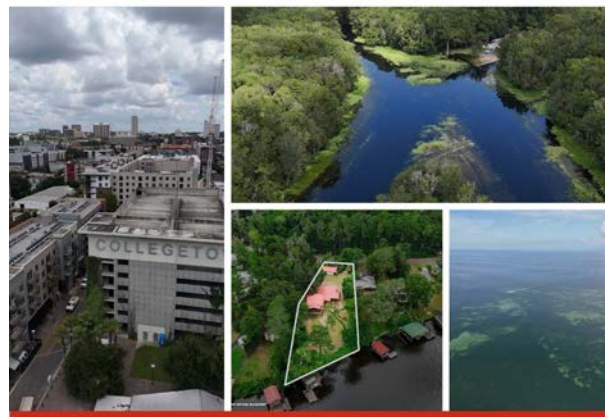
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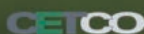
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Program at a Glance		
Sunday, October 25, 2026		
1:00 pm - 6:30 pm	Conference Registration Open - Rosen Centre Hotel	(Registration Desk 2)
1:00 pm - 4:30 pm	Exhibitor Setup	(Grand Ballroom C)
3:30 pm - 5:00 pm	Pre-Conference Workshop Managing Risk in Remediation: Funding, Insurance & Project Success	(Grand Ballroom D)
5:00 pm - 6:30 pm	Welcome Reception	(Grand Ballroom C)
Monday, October 26, 2026		
7:45 am - 7:00 pm	Registration Open	(Registration Desk 2)
7:45 am - 8:30 am	Continental Breakfast: Exhibit Hall	(Grand Ballroom C)
8:30 am - 10:00 am	FRC 2026 Opening Session Emerging Contaminants: Regulations, Standards & Remediation Challenges	(Grand Ballroom D)
10:00 am - 10:30 am	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
10:30 am - 12:00 pm	Session I: Emerging Contaminants: Technical Advances in Assessment and Remediation	(Grand Ballroom D)
12:00 pm - 1:00 pm	Lunch (Provided)	(Grand Ballroom E)
1:00 pm - 3:00 pm	Session II: Advanced Site Characterization and Remediation Optimization	(Grand Ballroom D)
3:00 pm - 3:30 pm	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
3:30 pm - 5:30 pm	Session III: Innovative Remediation Technologies for Complex Contaminants	(Grand Ballroom D)
5:30 pm - 7:00 pm	Reception - Exhibit Hall (6:30 pm 50:50 Raffle Drawing)	(Grand Ballroom C)
Tuesday, October 27, 2026		
8:15 am - 12:00 pm	Registration Open	(Registration Desk 2)
8:15 am - 9:00 am	Continental Breakfast: Exhibit Hall	(Grand Ballroom C)
9:00 am - 10:00 am	Session IV: DEP, Division of Waste Management, Updates from the Petroleum Restoration Program and Waste Cleanup Program	(Grand Ballroom D)
10:00 am - 10:30 am	Refreshment Break: Exhibit Hall	(Grand Ballroom C)
10:30 am - 12:00 pm	Session V: Innovative Technologies Transforming Environmental Remediation	(Grand Ballroom D)
12:00 pm	Adjourn	
10:30 am - 12:30 pm	Exhibitor Breakdown	
11:00 am - 6:00 pm	The 16th Annual Florida Remediation Charity Golf Tournament	(Shingle Creek Golf Club)