

Monday, February 14, 2022

1:00pm to 6:00pm	Registration
5:00pm to 7:00pm	Welcome Reception - The Grove (Outside)

Tuesday, February 15, 2022

7:00am - 6:00pm	Registration
7:30am - 8:30am	Continental Breakfast
8:30am - 9:45am	Welcome & Keynote
9:45am - 10:15am	Coffee Break

Session One		
Track A: Landfill Gas Emissions Moderator: Robert Gardner, PE, BCEE, SCS Engineers Room: Desert Visa A-C Slido Event Survey #: GWMS1A	Track B: Waste Characterization Moderator: Andy Nickodem, Golder Associates, Inc. Room: Desert Visa D-E Slido Event Survey #: GWMS1B	Track C: PFAS Characterization Moderator: Joe Benco, Republic Services Room: Grand Salon A-D Slido Event Survey #: GWMS1C
<i>Landfill Methane Emission Quantification: Comparing Approaches with Different Spatial and Temporal Scales</i> Roger Green , Waste Management	<i>Overview of Issues and Methods for Microplastics in Solid Waste Management</i> Ali Teymouri , PhD, Brown and Caldwell	<i>PFAS Issues Facing Landfills</i> Stephen Zemba , Sanborn, Head & Associates
<i>A Systematic Review of Methane Emissions from Californian Landfills</i> Tarek Abichou , Florida State University	<i>Describing Differences in Waste Composition</i> Yiyi Wang , PhD, Stony Brook University	<i>Per- and polyfluoroalkyl Substances Systems Analysis Tool (PFAS_SAT)</i> Mojtaba Sardarmehni , North Carolina State University
<i>Estimates of Waste Sector Greenhouse Gas and Short-Lived Climate Pollutant Emissions in Lebanon using SWEET</i> Alex Stege , SCS Engineers	<i>Determining Variation in Waste Generation</i> Firman Firmansyah , Waste Data and Analysis Center, Stony Brook University	<i>Longer-Term Trends in Leachate PFAS Concentrations at Midwestern Landfills</i> Terry Johnson , PG, Waste Management
		<i>Characterization and Quantification of Per- and Polyfluoroalkyl Substances in Landfill Gas from U.S. Landfills</i> Florentino De la Cruz , PhD, North Carolina State University

12:00pm - 1:30pm	Lunch & Poster Viewing
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Session Two		
Track A: Organics Management Moderator: Tony Pelletier, PE, Civil & Environmental Consultants, Inc. Room: Desert Visa A-C Slido Event Survey #: GWMS2A	Track B: Landfill Gas Management & Regulations Moderator: Amy Banister, Waste Management Room: Desert Visa D-E Slido Event Survey #: GWMS2B	Track C: PFAS Treatment in Leachate Moderator: Prentiss Shaw, PE, Tetra Tech Room: Grand Salon A-D Slido Event Survey #: GWMS2C
<i>Understanding Organics Management Across Canada: A Look at the Policies, Accessibility, and Infrastructure Used to Manage Organics</i> Suzie Boxman , PhD, Environmental Research & Education Foundation	<i>What's Next for Landfill Gas Emissions Regulations (US & Canada)</i> Amy Banister , Waste Management	<i>Direct PFAS Removal from Raw Leachate A Case Study: Regional Waste Management Facility (RWMF), NT, Australia</i> Clifford Duckworth, Beng, CPEng, RPEQ , The Water and Carbon Group
<i>Strategic Planning and an Environmental Management System lead Chicago to Composting for High Quality Class A Production</i> Daniel Collins , PE, MWRD Greater Chicago (Retired)	<i>Who, What, When, Where, & Why Solving the Mystery of Landfill Air Regulations, Permitting, and Compliance</i> Julie Hall , Weaver Consultants Group	<i>PFAS Treatment through Destruction not Transfer Technologies and Case Study on Electron Beam Destruction of PFAS</i> Tyler Brown , PE, Tetra Tech
<i>Understanding Potential Food Waste Generation for Facility Planning</i> Debra Darby , CCP, Tetra Tech	<i>A Comparison of Modeled versus Actual Landfill Gas Collection in Select Eastern U.S. Landfills</i> Mousa Maimoun , PhD, PE, LaBella Associates	<i>Electrochemical Transformations of Perfluoroalkyl Acid (PFAA) Precursors and PFAAs in Landfill Leachates</i> Vanessa Maldonado , Michigan State University/ Fraunhofer USA Inc.
<i>Clean Compost from a High Diversion Organics Processing Facility: Low PFAS and Higher Crop Yields</i> Luc De Baere , DRANCO NV	<i>Zero-Emission Solar/AC Piston Pumping Boosts RNG in Landfills and WTE</i> Mark Bertane , Blackhawk Technology Company	<i>Sustainable Mitigation of Per and Poly-fluoroalkyl Substances (PFAS) and Recalcitrant Organic Matter (DOM) from Landfill Leachate using Modified Coal Fly-Ash (CFA)</i> Harsh Patel , MS, North Carolina A&T State University
<i>Case Study: Food Waste to RNG Fuel in Los Angeles County</i> Mike Michels , PE, Tetra Tech		<i>Thermal Treatment of Wastewater Solids and PFAS</i> Ali Teymouri , PhD, Brown and Caldwell

Tuesday, February 15, 2022

3:30pm - 4:00pm Coffee Break

4:00pm - 5:15pm Session Three		
Track A: Environmental Justice Moderator: Gail Lobin, FTI Consulting Room: Desert Visa A-C Slido Event Survey #: GWMS3A	Track B: Odor Moderator: Greg Cekander, Waste Management Room: Desert Visa D-E Slido Event Survey #: GWMS3B	Track C : Slope Stability Evaluation Moderator: Steve Menoff, PE, Civil & Environmental Consultants, Inc. Room: Grand Salon A-D Slido Event Survey #: GWMS3C
<i>Waste Not - Environmental Justice Impact on the Waste Industry</i> Michael Trupin , Trinity Consultants	<i>What Causes Odor Complaints at Landfills? Analysis of Odor and Complaint Data from a Midwestern Landfill</i> Craig Benson , PhD, PE, NAE, University of Wisconsin at Madison	<i>Landfill Slope Monitoring and Evaluation</i> David Spang , PE, Civil & Environmental Consultants, Inc.
<i>Recent Environmental Justice Policy Developments</i> Michael Jensen , Waste Management	<i>Sulfide and Sulfate Production from Solidified Industrial Sludge Waste</i> Alborz Fathinezhad , Louisiana State University	<i>Using Vibrating Wire Piezometers for MSW Pore Pressure Evaluation and Landfill Stability</i> Eric Chiado , PE, Civil & Environmental Consultants, Inc.
<i>Federal and State Environmental Justice Laws, Regulations and Key Cases</i> Kendra Sherman , Squire Patton Boggs (US) LLP	<i>A Novel, Mixed Metal Ferric Iron Solution for Sustainable, Low-cost Hydrogen Sulfide Control</i> Deane Little , PhD, New Sky Energy	<i>Decision Protocol for 2D vs. 3D Slope Stability Analysis</i> Johnny Vastag , EIT, Bunnell-Lammons Engineering

5:15pm to 6:45pm Reception & Poster Viewing

Wednesday, February 16, 2022

6:30am - 5:30pm Registration

7:00am - 8:15am Continental Breakfast

8:30am - 10:00am Session Four		
Track A: Leachate Treatment I Moderator: Dave Vladic, PE, Republic Services Room: Desert Visa A-C Slido Event Survey #: GWMS4A	Track B: Solid Waste Planning Moderator: George Duvendack, Waste Connections Room: Desert Visa D-E Slido Event Survey #: GWMS4B	Track C: Waste Stability Moderator: Bo McCoy, PE, Waste Management Room: Grand Salon A-D Slido Event Survey #: GWMS4C
<i>Evolution of Leachate Management/Treatment Strategies for Solid Waste Landfills in Florida</i> Kwasi Badu-Tweneboah , Geosyntec Consultants	<i>Update of ISWA's Task Force on Closing Dumpsites Initiative - A Recent Study</i> James Law , SCS Engineers	<i>Subsurface Investigation of a MSW Landfill for Site Specific Parameters</i> Christopher Dohner , PE, Civil & Environmental Consultants, Inc.
<i>Innovative Use of Engine Exhaust to Treat Reverse Osmosis Concentrate</i> Steve Gabrielle , Energy Power Partners	<i>Less Waste, Better Baltimore: The City's Master Plan for Solid Waste Management and Recycling</i> Sean O'Donnell , PhD, Geosyntec Consultants	<i>Influence of Exploration & Production Waste on Solid Waste Hydraulic Conductivity</i> Sajjad Karimi , Colorado State University
<i>Off-the-Shelf Wastewater Treatment Software Models: Is there a Utility in Biological Leachate Treatment?</i> Jason Lewandowski , PE, Ramboll	<i>Case Study: Innovative Approaches to a Holistic Solid Waste Management System</i> Cristina Albuino , PE, Onondaga County Resource Recovery Agency	<i>Different Liquid Level Conditions in Landfills and Methods to Evaluate</i> Timothy Mitchell , PE, Civil & Environmental Consultants, Inc.
		<i>Removing a Buttress Berm that was Constructed to Prevent Landfill Instability</i> Majdi Othman , PhD, Geosyntec Consultants

10:00am - 10:30am Coffee Break

Wednesday, February 16, 2022

10:30am - 12:00pm

Session Five

Track A: Anaerobic Digestion Moderator: Thomas G. Pullar, PE, EARTHRES Room: Desert Visa A-C Slido Event Survey #: GWMS5A	Track B: Waste Collection & Diversion Moderator: Park Gamble, Routeware, Inc. Room: Desert Visa D-E Slido Event Survey #: GWMS5B	Track C: Landfill Operations & Design Moderator: Gregory P. Werner, PE, Civil & Environmental Consultants, Inc. Room: Grand Salon A-D Slido Event Survey #: GWMS5C
<i>Anaerobic Digester and Digestate Composting Emissions at Yolo County</i> Ramin Yazdani , PhD, PE, University of California at Davis	<i>Case Study of MSW Diversion in Barnstable County, MA</i> Debra Darby , CCP, Tetra Tech	<i>Landfill Design in the Era of Climate Change: A Case Study of Resilience and Adaptation Measures</i> Leticia Nocko , Geosyntec Consultants
<i>Decarbonization Potential of Renewable Natural Gas from Anaerobic Digestion of Organic Food Waste</i> Alexandros Karaiskakis , PhD, Bioenergy Devco	<i>Benefits of Back Hauling</i> Arnold Bowers , ENGIE Impact	<i>Landfill/dumpsite Mining and Remediation: A Review on Projects Worldwide</i> Gomathy Radhakrishna Iyer , SCS Engineers
<i>Solid State Anaerobic Digestion of Mixed Solid Wastes: the Beneficial Effects of Food Waste Addition</i> Temesgen Fitamo , PhD, University of Toronto	<i>Comparison of Collection Frequency and Efficiency: Traditional Street Containers and Sensor Equipped Underground Containers</i> Jay Wheeler , Underground Refuse Systems	<i>Overcoming Infrastructure Challenges to Create Additional Airspace-Adventures with Valley Fills</i> Logan Rohr , Tetra Tech
<i>Organics Recycling from MSW with Anaerobic Digestion</i> Yaniv Scherson , PhD, PE, Anaergia		

12:00pm - 1:30pm

Lunch & Poster Viewing

1:30pm - 3:00pm

Session Six

Track A: Recycling Moderator: Michelle Leonard Room: Desert Visa A-C Slido Event Survey #: GWMS6A	Track B: Emissions Monitoring Technology Moderator: Daniel Fellon, PE, ARM Group Room: Desert Visa D-E Slido Event Survey #: GWMS6B	Track C: Emerging Challenges in Leachate Management Moderator: Matt Stutz, Weaver Consultants Room: Grand Salon A-D Slido Event Survey #: GWMS6C
<i>Tracking the Increasing Occurrence of Facility Fires Across the Waste Management System</i> Ryan Fogelman , JD, MBA, Early Fire Protection Solutions	<i>A Novel Continuous Monitoring Approach for Measuring Methane Emissions at Landfills</i> Anna Scott , PhD, Project Canary	<i>High-Strength Municipal Solid Waste Leachate Pretreatment—Aerobic or Anaerobic?</i> Kerim Temel , Brown and Caldwell
<i>Factors that Impact Contamination in Recyclables</i> Stacey Demers , SCS Engineers	<i>Using Ambient Methane Concentrations Measured via SEM, Drone, and Stationary Sensors to Estimate Fugitive Total Landfill Methane Emissions</i> Tarek Abichou , Florida State University	<i>“No, I’m breaking up with YOU!” – Leaving Your WWTP Relationship Before They Cut You Off – Data-Driven Validation of Newer Technologies for On-Site Leachate Disposal</i> Brad Granley , PE, Leachate Management Specialists
<i>Successful Near-Term and Longer-Term Strategies for Reducing Recycling Contamination</i> Ann Gibbs-Vander Vliet , Skumatz Economic Research Associates, Inc.	<i>Drone-Based Systems for Cost-Effective Emissions Quantification and Renewable Natural Gas Production Management</i> Andrew Aubrey , PhD, SeekOps Inc.	<i>Occurrence and Treatment of New Emerging Contaminants Landfill Leachate</i> Renzun Zhao , PhD, PE, North Carolina A&T State University
<i>Rubber Modified Asphalt as a Solution to Global Waste Tire Management</i> H. Barry Takallou , PhD, PE, CRM Company	<i>Intercomparison Between Gas Mapping Lidar and Tracer Correlation Methods for Landfill Methane Emissions Quantification</i> Michael Thorpe , PhD, Bridger Photonics, Inc	<i>Developing a Roadmap for Managing Future Leachate Challenges Based on Lessons from the Past</i> Stephen Batiste , PE, Brown and Caldwell

3:00pm - 3:30pm

Coffee Break

Wednesday, February 16, 2022

3:30pm - 4:45pm

Session Seven

Track A: Liners
Moderator: Doug Junk, Geo-Logic Associates
Room: Desert Visa A-C
Slido Event Survey #: GWMS7A

Track B: Elevated Temperature Landfills
Moderator: Michael Beaudoin, PE, Republic Services
Room: Desert Visa D-E
Slido Event Survey #: GWMS7B

Track C: Leachate Treatment II
Moderator: Nelson Breeden, Waste Connections
Room: Grand Salon A-D
Slido Event Survey #: GWMS7C

Strategies and Technologies for Accelerated Measurement of Geosynthetic Performance Properties
Sam Allen, TRI Environmental, Inc.

Elevated Temperatures in Municipal Solid Waste Landfills Due to Exothermic Abiotic Reactions
Debra Reinhart, PhD, PE, BCEE, University of Central Florida

Enhancing Ammonia-nitrogen Removal from Landfill Leachate using a Droplet Spraying/ Misting System: A Case Study at the Three Rivers Solid Waste Authority Landfill
Suzie Boxman, PhD, Environmental Research & Education Foundation

Performance Evaluation of Four Landfill Liner Systems using Numerical Modeling and Life Cycle Assessment
James Tinjum, PE, PhD, University of Wisconsin-Madison

Experimental Measurement of Heat Production from Al Corrosion under Landfill-Relevant Conditions
Morton Barlaz, PhD, PE, North Carolina State University

Collaborative Effort to Evaporate Reverse Osmosis Concentrate
Brian Brazil, Waste Management

Impact of Moisture on GCL Performance
Paul Shamoian, PE, Civil & Environmental Consultants, Inc.

Development of Methods to Measure Heat Released from Hydration and Carbonation of Ash in Landfills
Asmita Narode, North Carolina State University

Multisorb: A low-cost Approach to Remove Metals and Organics from Leachate
Mithila Chakraborty, MS, University of Texas at Arlington

5:00pm to 6:30pm Reception & Poster Viewing

Thursday, February 17, 2022

6:00am - 11:45am

Registration

7:00am - 8:15am

Continental Breakfast

8:30am - 9:45am

Session Eight

Track A: Coal Ash
Moderator: Rick Buffalini, Civil & Environmental Consultants, Inc.
Room: Desert Visa A-C
Slido Event Survey #: GWMS8A

Track B: Covers
Moderator: Matt Crockett, PE, Waste Connections
Room: Desert Visa D-E
Slido Event Survey #: GWMS8B

Track C: PFAS Management
Moderator: Bernie Rieder, Rochem Americas, Inc.
Room: Grand Salon A-D
Slido Event Survey #: GWMS8C

Updates on Coal Ash regulations and permitting of the Coal-Fired Power Plants: United States Environmental Protection Agency (EPA) National and Regional Perspectives
Richard Huggins, PhD, U.S. Environmental Protection Agency

Insights on Colorado's First Closure Turf Application
Doug DeCesare, HDR

PFAS Leachate Treatment – Breaking Down the Bond Barrier
Bryan Staley, PhD, PE, Environmental Research & Education Foundation

Effects of Calcium-based Additive Composition on Fly Ash Degree of Reaction in Hypersaline NaCl and CaCl2 Brines
Marie Collin, PhD, University of California at Los Angeles

Practical Aspects of Exposed Geomembrane Cap (EGC) Design and Construction
James Walker, PE, Tetra Tech

Per- and Polyfluoroalkyl Substance (PFAS) Transport in Composite Liners
Yu Tan, University of Virginia

Comparison of Field Geochemical Conditions from Two Coal Ash Disposal Sites and the Implications on Leaching
Xinyue Wang, Vanderbilt University

Quantification of Reduction in GHG Emissions and Avoided GHG Emissions in using Engineered Turf Final Cover System for MSW Landfills
Rutu Joshi, PE, Watershed Geosynthetics

Encapsulation of PFAS from Landfill Leachate
Paul Ruehl, LafargeHolcim

9:45am - 10:00am

Coffee Break

10:00am - 11:15am

Session Nine

Track A: Sustainability and LCA
Moderator: Jeremy Morris, PhD, PE, Geosyntec Consultants
Room: Desert Visa A-C
Slido Event Survey #: GWMS9A

Track B: Modeling Subsurface Reactions
Moderator: Randy Bodnar
Room: Desert Visa D-E
Slido Event Survey #: GWMS9B

Track C: Roundtable
Room: Grand Salon A-D
Slido Event Survey #: GWMS9C

How Does Your Landfill Compare? Determining Your Landfill's Carbon Footprint
Mark Adams, Waste Connections

Field Data and Modeling Heat Generation for MSW Landfill Containing Coal Combustion Residuals
Milind Khire, PhD, PE, BCEE, University of North Carolina at Charlotte

Humanitarian Packaging Waste Management Roundtable
Mohan Dangi, PhD, PE, BCEE, Greg Rulifson, PhD, PE, and Elise Bell, Bureau for Humanitarian Assistance, United States Agency for International Development

A Novel and Sustainable Circular Economy Waste Management Strategy
Brooke Marten, MS, University of Colorado at Boulder

Numerical Investigation of Subsurface Aerobic Reactions that Facilitate Heat Generation and Accumulation in MSW Landfills
Alborz Fathinezhad, Louisiana State University

Life-Cycle Assessment of a Regulatory Compliant U.S. Municipal Solid Waste Landfill
James Levis, PhD, North Carolina State University

Finite Element Modeling of Landfills to Estimate Heat Generation, Transport and Accumulation: A Case Study
Morton Barlaz, PhD, PE, North Carolina State University

12:30pm

Golf*

*Sold Out - To be added to the waiting list email GWMS@informa.com