

Monday, February 14, 2022

5:00pm to 7:00pm Welcome Reception

Tuesday, February 15, 2022

7:00am Registration Opens

7:30am - 8:30am Continental Breakfast

8:30am - 9:45am Welcome & Keynote

9:45am - 10:15am Coffee Break

10:15am - 12:00pm Session One

Track A	Track B	Track C
Landfill Gas Emissions	Waste Characterization	PFAS Characterization
<i>A Systematic Review of Methane Emissions from Californian Landfills</i> Derek Manheim, PhD , Cal Poly San Luis Obispo	<i>Overview of Issues and Methods for Microplastics in Solid Waste Management</i> Katherine Bell, PhD, PE, BCEE , Brown and Caldwell	<i>PFAS Issues Facing Landfills</i> Stephen Zemba , Sanborn, Head & Associates
<i>Landfill Methane Emission Quantification: Comparing Approaches with Different Spatial and Temporal Scales</i> Roger Green , Waste Management	<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>Regional Climate Impact on Landfill Methane Production and Collection</i> Max Krause, PhD , U.S. Environmental Protection Agency	<i>Improved PV Module Sampling Methods for Toxicity Testing to Support End-of-Life Decisions</i> Stephanie Shaw , Electric Power Research Institute	<i>Longer-Term Trends in Leachate PFAS Concentrations at Midwestern Landfills</i> Terry Johnson, PG , Waste Management
<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>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

1:30pm - 3:30pm Session Two

Track A	Track B	Track C
Organics Management	Landfill Gas Management & Regulations	PFAS Treatment in Leachate
<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>Who, What, When, Where, & Why Solving the Mystery of Landfill Air Regulations, Permitting, and Compliance</i> Julie Hall , Weaver Consultants Group	<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>A Comparison of Modeled versus Actual Landfill Gas Collection in Select Eastern U.S. Landfills</i> Mousa Maimoun, PhD, PE , LaBella Associates	<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>Solar Low-Flow Pumps Boost Iowa Landfill's Gas Recovery, Address Groundwater Issue, With Cost Savings</i> Mark Bertane , Blackhawk Technology Company	<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>The Waste Hierarchy as a Framework for Prioritizing the Disposition of Spent Textiles</i> Karla Magruder , Accelerating Circularity	<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>Assessment of Dielectric Barrier Discharge Non-Thermal Plasma for the Removal of Siloxanes from Landfill Gas</i> Shamia Hoque, PhD , University of South Carolina	<i>Thermal Treatment of Wastewater Solids and PFAS</i> John Ross , Brown and Caldwell

3:30pm - 4:00pm Coffee Break

Tuesday, February 15, 2022

4:00pm - 5:15pm

Session Three

Track A	Track B	Track C
Environmental Justice	Odor	Slope Stability Evaluation
<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

7:00am - 8:15am

Continental Breakfast

8:30am - 10:00am

Session Four

Track A	Track B	Track C
Leachate Treatment I	Solid Waste Planning	Waste Stability
<i>Evaluation 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> Christopher Bareither, PhD, PE , Colorado State University
<i>Alternatives Evaluation and Cost Estimation for Onsite Pretreatment of Landfill Leachate for Indirect Discharge: Impact of COVID-19 Pandemic on Cost Estimates</i> Sara Arabi, PhD, PE, BCEE , Stantec	<i>Case Study: Innovative Approaches to a Holistic Solid Waste Management System</i> Cristina Alburnio, 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>Off-the-Shelf Wastewater Treatment Software Models: Is there a Utility in Biological Leachate Treatment?</i> Jason Lewandowski, PE , Ramboll		<i>Removing a Buttress Berm that was Constructed to Prevent Landfill Instability</i> Majdi Othman, PhD , Geosyntec Consultants

10:00am - 10:30am

Coffee Break

10:30am - 12:00pm

Session Five

Track A	Track B	Track C
Anaerobic Digestion	Waste Collection & Diversion	Landfill Operations & Design
<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> Sean O'Donnell, PhD , 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> Chelsi Tryon, MS , 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>Measuring Temperature and Odour: A Study in Semi-Underground Waste Containment</i> Tim Corcoran , Molok North America	<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> Dr. Yaniv Scherson , Anaergia	<i>Comparison of Collection Frequency and Efficiency: Traditional Street Containers and Sensor Equipped Underground Containers</i> Ronald Mersky, PhD, PE, BCEE , Widener University Civil Engineering	

Wednesday, February 16, 2022

12:00pm - 1:30pm

Lunch & Poster Viewing

1:30pm - 3:00pm

Session Six

Track A	Track B	Track C
Recycling	Emissions Monitoring Technology	Emerging Challenges in Leachate Management
<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> Kevin D. Torrens, BCEEM , 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> Lisa Skumatz, PhD , 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> Mosarrat Samiha Kabir, MS , 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

3:30pm - 4:45pm

Session Seven

Track A	Track B	Track C
Liners	Elevated Temperature Landfills	Leachate Treatment II
<i>Strategies and Technologies for Accelerated Measurement of Geosynthetic Performance Properties</i> Sam Allen , TRI Environmental, Inc.	<i>Elevated Temperatures in Municipal Solid Waste Landfills Due to Exothermic Abiotic Reactions</i> Debra Reinhart, PhD, PE, BCEE , University of Central Florida	<i>Enhancing Ammonia-nitrogen Removal from Landfill Leachate using a Droplet Spraying/Misting System: A Case Study at the Three Rivers Solid Waste Authority Landfill</i> Nicole Berge, PhD , University of South Carolina
<i>Hydraulic Performance of Bentonite-Polymer Geosynthetic Clay Liners to Coal Combustion Product Leachates</i> Dong Li , George Mason University	<i>Experimental Measurement of Heat Production from Al Corrosion under Landfill-Relevant Conditions</i> Zisu Hao, PhD , North Carolina State University	<i>Collaborative Effort to Evaporate Reverse Osmosis Concentrate</i> Brian Brazil , Waste Management
<i>Impact of Moisture on GCL Performance</i> Paul Shamoian, PE , Civil & Environmental Consultants, Inc.	<i>Development of Methods to Measure Heat Released from Hydration and Carbonation of Ash in Landfills</i> Asmita Narode , North Carolina State University	<i>Multisorb: A low-cost Approach to Remove Metals and Organics from Leachate</i> Mithila Chakraborty, MS , University of Texas at Arlington

5:00pm to 6:30pm

Reception & Poster Viewing

Thursday, February 17, 2022

7:00am - 8:15am

Continental Breakfast

8:30am - 9:45am

Session Eight

Track A	Track B	Track C
Coal Ash	Covers	PFAS Management
<i>Updates on Coal Ash regulations and permitting of the Coal-Fired Power Plants: United States Environmental Protection Agency (EPA) National and Regional Perspectives</i> Golam Mustafa, PhD , U.S. Environmental Protection Agency	<i>Insights on Colorado's First Closure Turf Application</i> Doug DeCesare , HDR	<i>New Developments and Managing PFAS in MSW Landfills</i> David Knapp, MS , Tetra Tech
<i>Effects of Calcium-based Additive Composition on Fly Ash Degree of Reaction in Hypersaline NaCl and CaCl₂ Brines</i> Marie Collin, PhD , University of California at Los Angeles	<i>Practical Aspects of Exposed Geomembrane Cap (EGC) Design and Construction</i> James Walker, PE , Tetra Tech	<i>Per- and Polyfluoroalkyl Substance (PFAS) Transport in Composite Liners</i> Yu Tan , University of Virginia
<i>Comparison of Field Geochemical Conditions from Two Coal Ash Disposal Sites and the Implications on Leaching</i> Xinyue Wang , Vanderbilt University	<i>Quantification of Reduction in GHG Emissions and Avoided GHG Emissions in using Engineered Turf Final Cover System for MSW Landfills</i> Rutu Joshi, PE , Watershed Geosynthetics	<i>Encapsulation of PFAS from Landfill Leachate</i> Paul Ruehl , LafargeHolcim

Thursday, February 17, 2022

9:45am - 10:00am

Coffee Break

10:00am - 11:15am

Session Nine

Track A	Track B	Track C
Sustainability and LCA	Modeling Subsurface Reactions	
<i>How Does Your Landfill Compare? Determining Your Landfill's Carbon Footprint</i> Matt Stutz, PE , Weaver Consultants Group	<i>Field Data and Modeling Heat Generation for MSW Landfill Containing Coal Combustion Residuals</i> Milind Khire, PhD, PE, BCEE , University of North Carolina at Charlotte	
<i>A Novel and Sustainable Circular Economy Waste Management Strategy</i> Brooke Marten, MS , University of Colorado at Boulder	<i>Numerical Investigation of Subsurface Aerobic Reactions that Facilitate Heat Generation and Accumulation in MSW Landfills</i> Alborz Fathinezhad , Louisiana State University	
<i>Life-Cycle Assessment of a Regulatory Compliant U.S. Municipal Solid Waste Landfill</i> James Levis, PhD , North Carolina State University	<i>Finite Element Modeling of Landfills to Estimate Heat Generation, Transport and Accumulation: A Case Study</i> Zisu Hao, PhD , North Carolina State University	

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***This agenda is preliminary and will change. Please check back for regular updates.**