

Agenda

Sunday, February 23, 2020

5:00pm to 7:00pm **Welcome Reception**

Monday, February 24, 2020

7:00am Registration Opens

7:30am - 8:45am Continental Breakfast

8:45am - 10:00am **Welcome & Keynote: Tara Hemmer, SVP, Waste Management**

10:00am - 10:30am Coffee Break

10:30am - 12:00pm **Session One**

| Track A: Leachate Treatment I | Track B: Characterizing Elevated Temperature Landfills | Track C: Waste Management Planning |
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| Life Cycle Cost Analysis of Landfill Leachate Ammonia Removal versus Recovery for POTW Discharge | Field Data & Modeling of Heat Generation Rates in Municipal Solid Waste Landfill Located in Northeastern United States | Quantifying the Nuisance and Safety Aspects of Storage and Collection |
| Leachate Scaling – Problems, Prevention, Cures | Comparison of heat generation in a MSW landfill with anaerobic and aerobic biodegradation | Hennepin County's Zero Waste Challenge Program |
| Integrated Electrochemical Landfill Leachate Solution for a Minnesota Landfill | Characterization of Florida Landfills with Elevated Temperatures | Waste Characterization Study at a Municipal Solid Waste Landfill |
| Large-Scale Advanced Leachate Treatment System, Concept to Full Scale Performance Comparison | The effect of temperature on methane generation from solid waste excavated from landfills experiencing elevated temperatures | |

12:00pm - 2:00pm **Lunch & Poster Viewing - Lunch Speaker: Dr. Bryan Staley, President & CEO, EREF**

2:00pm - 3:30pm **Session Two**

| Track A: PFAS Characterization | Track B: Waste Management Planning & Odor Control | Track C: Organics Mgmt - Policy/Strategies |
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| Leachate/POTW PFAS Nexus-Reality, Risks, and Solutions for Landfill Owners | Overview of ISWA's Global Initiative on Closing Dumps | Evaluating the Local Effects of California's Senate Bill 1383: Changes to Organic Waste Disposal & Impacts on Methane Generation, Recovery, and Emissions |
| Emerging Contaminants and Surface Water: Per- and Polyfluoroalkyl Substances (PFAS) | Managing Illegal Dumping in the Big Data Era: Prospects and Challenges | Food Waste Management Within the Food-Energy-Water Nexus |
| Per- and Polyfluoroalkyl Substances (PFAS) in Landfill Leachate and Municipal Wastewater | Why landfills smell and what can be done about it? | The Benefits of Digesting Food Waste at Water Resource Recovery Facilities: Results from the Goleta Sanitary District Pilot Project |
| Occurrence, Distribution and Mitigation of PFAS in Landfill Leachate | Growing Odor Concerns from Encroaching Development | |

3:30pm - 4:00pm Coffee Break

4:00pm - 5:15pm **Session Three**

| Track A: Managing Liquids in the Waste Column | Track B: Organic Waste Sustainability | Track C: Measuring/Enhancing Methane Potential |
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| The Successful Remediation of over 30 feet of Leachate on the Liner System at the SPSA Regional Landfill | A Comparative Attributional Life-Cycle Assessment of Food Waste and its' Effect on the Food-Energy-Water (FEW) Nexus | Impacts of Moisture Enhancement Strategies on Biogas Generation in Municipal Solid Waste |
| | Life-Cycle Optimization to Develop and Assess of Sustainable Organic Waste Management Strategies | Evaluation of Alternate Inocula for Biochemical Methane Potential Testing |
| | Life-Cycle Modeling of Nutrient and Energy Recovery through Mixed Waste Processing Systems | Effect of TAV5 ratios on methane generation and lignin degradation |

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

Tuesday, February 25, 2020

7:00am - 8:15am Continental Breakfast

8:30am - 10:00am **Session Four**

| Track A: PFAS Treatment | Track B: Composting | Track C: Assessing Heat Generation in Landfills |
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| PFAS Treatment Technologies: ITRC Consensus View | Finding a Balance: Managing CASP Permitting Requirements versus Operational Objectives | Energy Analysis of Elevated Temperature Landfill Processes at the Laboratory Scale |
| PFAS Treatment - The Devil we know and Need to Manage | Closing the Loop: Food Waste Composting in Prince George's County, Maryland | Experimental Measurement of Heat Production from Al Corrosion under Landfill-Relevant Conditions |
| Evaporation as a Viable Approach for Management of Leachate Containing PFAS | Can a high quality compost be made from mixed municipal solid waste, similar in quality as compost derived from source separated organics? | Development of methods to measure heat released from ash hydration and carbonation in landfills |
| Emerging Technologies for Emerging Contaminants – PFAS and Others | | Field Testing of Municipal Waste Combustor Ash for Heat Generation Potential |

10:00am - 10:30am Coffee Break

10:30am - 12:00pm **Session Five**

| Track A: Leachate Treatment II | Track B: Landfill Emissions | Track C: Sustainable Materials Management |
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| Impact of Landfill Leachate Matrix on Nitrogen Removal Process with Heterogeneous Community of Heterotrophs and Autotrophs in a Sequencing Batch Reactor | Lessons Learned At Three Landfills Complying with NSPS XXX Emission Control Requirements | How End Use Markets and Demand Impact Sustainable Materials Management |
| Single Stage Partial Nitrification/ANAMMOX in Treatment of Landfill Leachate | Drone Based Surface Emission Monitoring | Acceptability Of Economic Instruments For Improving The Management Of Plastic Drink Package Wastes In Enugu Urban, Nigeria |
| Leachate Treatment Pilot Study using MBR and Electrocoagulation for reduction of COD and Ammonia and for increasing Ultraviolet Transmittance | Drone-Based Gas Mapping LiDAR for Methane Concentration Mapping and Whole Landfill Emissions Monitoring | A 5-Year Outlook on the Consumer Goods Market: A Case Study on the Sustainability-driven Waste Market Transformation |
| Comparative Study on the Nature and Characteristics of Dissolved Organic Matter in Leachate from Two Landfills | | Critical examination of recycled MSW incineration ash as a mineral source for portland cement manufacture |

12:00pm - 1:30pm Lunch & Poster Viewing - Lunch Speaker: Michael E. Hoffman, Managing Director-Group Head Diversified Industrials, Stifel

1:30pm - 3:00pm **Session Six**

| Track A: Landfill Liners | Track B: Landfill Gas Management | Track C: Management Strategy Impacts on Leachate |
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| Effects of Aggressive Leachates and Elevated Temperatures on the Hydraulic Conductivity of Bentonite-Polymer Composite Geosynthetic Clay Liners | The WAG: An Innovation in Landfill Gas Data Analysis | Cost and Environmental Impacts of Co-Treatment of Centrate and Leachate for Nitrogen/ Phosphorus Management |
| Effect of Inorganic Salts Solutions on Polymer Elution from a Bentonite-Polymer GCL | Achieving Compliance with Low Emission Flares | Effect of Food Waste Diversion on Leachate Quality |
| Hydraulic Conductivity and Attenuation of Bentonite-Polymer Composite Geosynthetic Clay Liners Permeated With Bauxite Liquor from China | From waste to energy: Landfill gas purification using zeolitic imidazolate framework composites | Long Term Impacts of Recirculation of RO Concentrate from MSW Leachate Treatment on Leachate Concentration |
| Performance-Based Evaluation of Alternative Liners for Wisconsin Landfills | Landfill and Digester Gas Upgrading to CNG and RNG | |

3:00pm - 3:30pm Coffee Break

Tuesday, February 25, 2020

3:30pm - 5:00pm

Session Seven

| Track A: Coal Ash/CCR Management | Track B: Liquid Waste Management | Track C: Waste to Resources: Thermal Conversion & Landfill Mining |
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| Coal Ash regulations and permitting of the Coal-Fired Power Plants: United States Environmental Protection Agency (EPA) Region 6 Perspectives | Using the Liquid Release Test to Evaluate Wet Wastes and Solidification Effectiveness | Biochar Gasification Technology – A variety of solutions for a variety of organic waste |
| Organic Material Management at Closure of CCR Units | Exploration and Production Landfill Waste Stability | FastOx® Gasification: An Integrated Solution to Zero Waste |
| Effect of coal combustion residual (CCR) leachates on hydraulic conductivity of bentonite-polymer geosynthetic clay liners | Implications of Solid and Liquid Waste Co-Disposal on Biodegradation and Biochemical Compatibility | Landfill Mining – converting waste from an environmental liability into a resource for energy recovery |
| | Modeling the impact of landfilled MBT outputs on methane production | Landfill Mining – Suitability, Practical Considerations, Technical Issues, Solutions and Costs |

5:00pm - 6:30pm

Reception & Poster Viewing

Wednesday, February 26, 2020

7:00am - 8:15am

Continental Breakfast

8:30am - 9:45am

Session Eight

| Track A: Life Cycle Assessment | Track B: Landfill Operations | Track C: Landfill Covers |
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| A Generalized Non-Linear Life-Cycle Optimization Framework for Developing and Assessing Sustainable Solid Waste Management Strategies | Hydrologic Modeling Associated with Permitting a Landfill Expansion | Real-world Performance of Engineered Turf Final Cover System under Extreme Weather Conditions |
| Comparison of Organic Waste Management Options in Terms of Air Quality and GHG Impacts | Making a Case for Caissons | Suitability of un-composted grass clippings and biosolids as biocovers for biological methane removal from landfills |
| An Assessment of the Dynamic Global Warming Impact Associated with Long-Term Emissions from Landfills | | Florida's First Exposed Geomembrane Cover Final Closure – Regulatory Approval through Construction |

9:45am - 10:00am

Coffee Break

10:00am - 11:15am

Session Nine: TBD