

SUSTAINABLE WASTE MANAGEMENT:

PUSHING THE FOREFRONT OF INNOVATION

2024 Bi-Annual Waste-to-Energy Resource and Technology Council (WtERT) USA Meeting
at The City College of New York | 275 Convent Avenue, New York, New York
October 2-4, 2024

Program

Wednesday, October 2: Welcome Reception at The City College of New York

5 pm – 7 pm

*Participants pick up conference credentials and materials
and gather for a welcoming drink with colleagues.*

Thursday, October 3: Full Day of Programming and Evening Reception

8 – 9 am Breakfast | 9 am Welcoming Remarks | 9:30 am – 5:30 pm Presentations

WELCOMING REMARKS

9 – 9:30 am

Professor Nickolas J. Themelis

Founder, Earth Engineering Center, Columbia University and Global WtERT Council, WtERT®

and

Professor Marco J. Castaldi

*Director, Earth Engineering Center and Chemical Engineering Department Chair,
The City College of New York and Head, WtERT-USA*

WTERT-USA 2024 BI-ANNUAL MEETING
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EMERGING TECHNOLOGIES

9:30 – 11 am

AI Technology for Smart Waste-to-Energy

Qunxing Huang

Global WtERT Council; WtERT-China; Energy Engineering, Zhejiang University, China

**Integration of Carbon Capture and Storage in Waste-to-Energy Plants:
Comparing MEA, CaL and MCFC Technologies**

Letizia Cretarola

Politecnico de Milano

Innovations in Waste-to-Energy Ash Processing and Reuse

James Appleby

Blue Phoenix Group

Moderated by Marco J. Castaldi

POLICY LANDSCAPE

11:15 am – 12:45 pm

**Developments to Maximum Achievable Control Technology (MACT) Program
at the United States Environmental Protection Agency (EPA)**

Timothy Porter

WIN-Waste Innovations

MACT Proposed Guidelines and Long-Term Capital Planning

Annette Scotto DeLuca

HDR Engineering

Waste-to-Energy in the Climate Policy Landscape: 2024 and Beyond

Michael Van Brunt

Reworld (formerly Covanta)

Moderated by Stefano Consonni

LUNCH | 12:45 – 2 pm

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**EMISSIONS AND ENVIRONMENT
2 – 3:30 pm**

Waste-to-Energy: Sustainable Solution to Reduce Methane Emissions

Yuri Schmitke

Brazilian Association for Energy Recovery from Waste - ABREN

Approaches to Reducing Methane Emissions: Waste-to-Energy versus Landfills

Connie Lausten

cLausten, LLC

Emissions Tracking: How EPA Databases Reveal Waste-to-Energy Impact on Air Quality

Erica Razook

Earth Engineering Center, The City College of New York

Moderated by Michael Van Brunt

**DEVELOPMENTS IN OPERATIONS
3:45 – 5:15 pm**

Vortex Boiler Cleaning

Scott Baumann

Volodyne

PFAS Characterization and Behavior in Waste-to-Energy Technologies

Stefano Consonni

Politecnico de Milano

Earth Engineering Center Showcase: Recent Research Developments from CCNY Team

Marco J. Castaldi

City College of New York

Moderated by Tim Porter

Evening Reception and Awards Dinner | 6 – 9 pm

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**Friday, October 4: Morning Programming and Farewell Networking Lunch
8 – 9 am Light Breakfast and Coffee**

**GLOBAL UPDATES
9 – 10:30 am**

Synergies for the Climate by Combining Anaerobic Digestion Plants with Waste-to-Energy

Werner Bauer
WtERT Germany

Waste-to-Energy: A Sustainable Approach for Renewable Energy in Water and Food Systems

Reda Kabbaj
Global WtERT Council

Feasibility of Offshore Waste-to-Energy in New York Harbor

James Armstrong
DSM Engineering Associates, PC

Moderated by Michael Lugo

**NEW VOICES
11 am – 12 pm**

Transforming Waste-to-Energy Ashes: Cementitious Material through Chlorellestadite Formation

Nishant Garg
University of Illinois Urbana-Champaign

**Performance of Chemical Stabilization
by Inorganic Precipitation and Organic Chelation of Heavy Metals in Waste-to-Energy Fly Ash**

Shengwei Dai
Columbia University

**Impact of Reactive Conditions on Metal Oxidation State
for Material Recovery from Waste-to-Energy Ash**

Janhvi Trivedi
City College of New York

Moderated by Kaitlyn Lawrence

Farewell and Networking Lunch

NOTES

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