



AIR & WASTE MANAGEMENT
ASSOCIATION

FINAL PROGRAM



42ND INTERNATIONAL CONFERENCE ON THERMAL TREATMENT TECHNOLOGIES & HAZARDOUS WASTE COMBUSTORS

October 28-29, 2026

**DoubleTree Suites by Hilton Hotel Salt Lake City Downtown
Salt Lake City, UT
www.awma.org/IT3**

Sponsored By:



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General Information

Conference Overview

Now in its 42nd year, this conference provides a forum for the discussion of state-of-the-art technical information, regulations, and public policy on thermal treatment technologies and their relationship to air emissions, greenhouse gases, and sustainability. Presentations will address various aspects of waste management using thermal treatment processes and provide useful insight into associated costs, risks, and impacts.

Location

DoubleTree Suites by Hilton Hotel Salt Lake City Downtown
110 West 600 South
Salt Lake City, UT 84101
Phone: 801-359-7800

Registration and Refund Policy

Register online at www.awma.org/IT3 and save on fees if you register by the advance deadline of September 27. Conference check-in and badge pickup will be held in the Ballroom Foyer at the DoubleTree Suites by Hilton Hotel Salt Lake City Downtown during the following hours:

Wednesday, October 28	7:30 am – 5:00 pm
Thursday, October 29:	7:30 am – 3:00 pm

Cancellation and refund requests must be received in writing by September 27, 2026. After that date, no refunds will be issued for cancellations of any type, including no shows. All refunds will be subject to a \$100 USD administrative fee. Substitutions may be made at any time; payment for any difference is due at the time of substitution. This refund policy applies to all occurrences, including weather-related events and other natural disasters. In the unlikely occurrence of event cancellation, the Association is not liable for any expenses incurred by the registrant other than the full refund of registration fee(s) paid.

A&WMA Meetings Policy

By registering for this meeting, attendees agree to abide by and accept the terms of the A&WMA Code of Conduct (available at www.awma.org/governance). Additionally, A&WMA conference attendees acknowledge that they may be photographed by A&WMA for promotional purposes while at events.

Conference Proceedings

Conference proceedings will include the secured PDF copies of the slides from presenters who have provided permission. The online proceedings will be posted a few weeks following the conference and attendees will be notified when the slides have been posted to a password-protected website.

IT3/HWC Conference Committee

Technical Chair: Cornelia Cretiu, *SOLVAir*

Technical Vice Chair: Paulo Oliveira, *Fives Solios*

Immediate Past Technical Chair: Margarita Murach

Program Advisory Committee Members:

Andy Bartocci, *Envitech*

Thomas Busmann, *Focus Environmental*

Michael Mannuzza, *Ramboll*

William Norris, *Ramboll*

David Ostaszewski, *Alliance Technical Group*

Xavier Pouzet, *Ramboll*

Jeremias Szust, *Trinity Consultants*

Nathan Weber, *University of Technology Sydney*

Presenter Details

All presenters should bring their presentation on a flash drive and load onto the conference laptop in the Ballroom the morning of their session. Presenters should report to their presentation room at least 15 minutes prior to their session and plan to stay for the entire session.

Continuing Education Units

Conference attendees may be eligible for continuing education credits and can apply to receive a Certificate of Participation for the sessions attended. Please sign the CEU sign-in sheet available at the registration desk and order your Certificate through the A&WMA Online Store. Members are eligible for free certificates. For more information, please contact Gloria Henning at +1-412-904-6021 or glhenning@awma.org.

Special Accommodations

The Air & Waste Management Association supports the Americans with Disabilities Act (ADA). Attendees requiring specific equipment, food, or services should contact Lisa Moses at lmoses@awma.org to make those needs known in advance. A&WMA will make every reasonable effort to accommodate them.

About the Air & Waste Management Association

Founded in 1907, the Air & Waste Management Association is a nonpartisan professional organization that enhances knowledge and expertise by providing a neutral forum for the professional development, networking, and public education to thousands of members and an even greater audience of environmental professionals worldwide. A&WMA also promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society. For more information, visit our website at www.awma.org.

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Ramboll is a global consulting, architecture, and engineering firm with 18,000+ experts dedicated to creating sustainable societies where people and nature flourish. In the Americas, more than 2,000 Environment & Health specialists partner with industry, investors, and communities turn ambitious climate, nature positive, and social goals into action. From decarbonizing complex portfolios and managing emerging contaminants to sustainability strategy and energy permitting, our science based advice and digital innovation help clients navigate risk and unlock opportunity. With a Nordic heritage of collaboration, integrity and empathy, Ramboll delivers integrated solutions that advance environmental resilience and healthy, thriving communities.

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Envitech is a leading supplier of custom-engineered air pollution control systems for industrial sources including incinerators, calciners, kilns, and thermal oxidizers. Our solutions remove particulates, heavy metals, dioxins/furans, acid gases, ammonia, NOx, and tars. Core technologies include quenchers, WESPs, Venturi scrubbers, absorbers, and condensers. www.envitechinc.com



Impact Sponsor

Focus Environmental, Inc., established in 1988, specializes in providing process engineering and regulatory compliance services using our extensive experience in the design, evaluation, and operation of combustion systems and associated air pollution control equipment applied to contaminated soil remediation, hazardous waste thermal treatment, process vent emission control, and hazardous waste management. Focus' objective is to assist clients in implementing solutions that meet regulatory requirements, meet project objectives, and provide maximum operational flexibility. www.focusenv.com



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Advocate Sponsors

Alliance Technical Group, headquartered in Decatur, AL, was founded in 2000. Alliance has an exceptional combination of organic and acquisition growth, strategically enhancing our platform by building new and existing regions and a vigorous range of environmental compliance services. Alliance Technical Group, (Alliance), headquartered in Decatur, AL, is a premier environmental services and solutions company dedicated to helping our clients achieve their environmental goals and mitigate the risks associated with regulatory changes. With more than 2,000 employees located in 45-plus offices in the U.S. and Canada, Alliance specializes in Environmental Compliance, On-site Testing and Monitoring, and Laboratory Testing and Analysis. Driven by innovation, committed to service, and focused on client success, Alliance delivers on the promise of responsiveness, reliability, and results. See how we offer our clients a better way to maximize their environmental opportunities at www.alliancetg.com.

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B3 Systems, Inc. is an environmental technology and services company. Since 1991, B3 Systems has supported a wide range of industrial and regulatory applications. B3 Systems provides particulate spiking for PM CEMS, bag leak detection, continuous particulate monitoring, ambient PM monitoring, and settled-dust monitoring. Its technical work spans regulatory compliance, performance evaluation, process optimization, and particulate-control system diagnostics across a range of industrial applications. www.b3systems.com



Clean Harbors brings 45 years of trusted experience to every project. We employ industry leaders to provide you with unmatched service under one roof. From sampling and design, to vessels and media all the way through disposal and liability protection we are equipped to manage your filtration projects, start to finish. www.cleanharbors.com



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Within Fives Group, Fives Solios specializes in the design and supply of emission control equipment and systems for the incineration and energy-from-waste industries. Fives Solios supplies tailor-made dry scrubbing systems for control of particulate, acid gases, dioxin/furans and heavy metals, integrating innovative proprietary technologies: the TGT® and Sonair™ process filters and the All-Dry AD™ and Enhanced All-Dry EAD™ scrubbing technologies that provide the highest levels of performance, product quality and energy efficiency. www.fivesgroup.com



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HWI provides one of the industry's most complete refractory portfolios for incineration vessel applications. From municipal and corrosive waste to hazardous-waste incineration, customers rely on HWI for durable refractory solutions, responsive service, and the expertise to meet demanding operating conditions. www.thinkhwi.com



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John Zink, a Koch Engineered Solutions business, is the leading global combustion and emission control partner, delivering exceptional, tailored solutions, backed by nearly a century of proven performance, unrivaled research and development, and expert service and support. Our enduring commitment to excellence shapes our legacy and our future by delivering reliable solutions that drive progress and ensure lasting impact for decades to come. www.johnzink.com



Tabletop Exhibitor

Founded in 1999, Ohio Lumex delivers analytical technology, accredited laboratory services, and custom sampling solutions for industrial, energy, environmental, and life sciences markets. Our instruments, sorbent traps, and methods support measurement of metals, hydrogen fluoride, hydrogen cyanide, and emerging PFAS-related emissions for thermal treatment and hazardous waste applications. www.ohiolumex.com

Technical Tour

Clean Harbors Aragonite Facility and University of Utah Advanced Energy Systems Research Facility Tour

Tuesday, October 27, 11:00 am – 4:15 pm (pre-registration required)

Participants will tour the Clean Harbors Aragonite hazardous waste storage, treatment, and disposal facility, located approximately 75 miles west of Salt Lake City. This facility, operating since 1991, is fully permitted for RCRA and TSCA waste by the Utah Department of Environmental Quality to receive, store, treat, dispose, and transfer a variety of waste streams.

Dress Code: Participants must wear closed-toe shoes and full-length pants. Hard hats and safety glasses are required; participants may bring their own, or Clean Harbors will provide them if needed.

The University of Utah's Advanced Energy Systems Research Facility supports energy-related research and technology development with equipment that bridges the gap between fundamental lab- or bench-scale research and industrial pilots and demonstration systems. The tour will highlight the facility's seven pilot-scale combustion and gasification systems and rigs.



Technical Program – Wednesday, October 28

7:30 am – 5:00 pm
Conference Registration
Ballroom Foyer

7:45 am – 8:30 am
Continental Breakfast
Ballroom/Ballroom Foyer

ALL TECHNICAL SESSIONS WILL BE HELD IN THE BALLROOM

Opening Keynote

8:30 am – 9:30 am

Welcome and Opening Remarks

Michele Karnes, Franklin Engineering, A&WMA Treasurer; Cornelia Cretiu, SOLVAir, Conference Chair

Incineration Technology is Setting the Bar for PFAS Destruction Studies

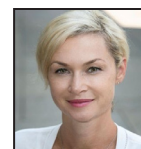
AnnieLu DeWitt, Vice President, Total PFAS Solutions; Global PFAS Practice Lead, Clean Harbors

9:30 am – 9:50 am

Networking Break and Display Viewing

Ballroom/Ballroom Foyer

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AnnieLu DeWitt

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Technical Program – Wednesday, October 28, con't.

Session 1: Advancements in Thermal Treatment of PFAS (Part 1)

Chair: Thomas Busmann, Focus Environmental

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9:50 am – 10:15 am

IT3-02

Coordination of a Successful Destruction Test

Taryn McKnight, Matthew Klingerman, Eurofins Knoxville

10:15 am – 10:40 am

IT3-41

NCASI A105.01 Case Studies and Conducive Outcomes

Rohit Surathu, Alliance Technical Group

10:40 am – 11:05 am

IT3-32

PFAS Testing at Three Minnesota Resource Recovery Facilities

Chandler Taylor, Tim Russell, Mark Petersen, Barr Engineering Co.

11:05 am – 11:30 am

IT3-11

Low-Temperature Thermal Destruction of PFAS Using a Gas-Solid Contactor Containing Calcium Oxide

Kyle Doudrick, Uddhar Markad, Aebin Sin, Ana Corcoran, George Hana, University of Notre Dame

11:30 am – 12:00 pm

Exhibitor Presentations

12:00 pm – 1:00 pm

Lunch

Atrium

Session 2: Advancements in Thermal Treatment of PFAS (Part 2)

Chair: Thomas Busmann, Focus Environmental

Sponsored By:



1:00 pm – 1:25 pm

IT3-12

PFAS Emissions and Destruction in Landfill Gas Combustion Devices

Matthew Estabrooks, Sanborn, Head & Associates, Inc.; Appala Raju Badireddy, University of Vermont; Florentino De la Cruz, University of North Florida; Wesley Fritz, Weston Solutions, Inc.

1:25 pm – 1:50 pm

IT3-29

PFAS Concentration and Containment: A Practical First Step Toward Destruction

Travis Smith, Heartland Water Technology

1:50 pm – 2:15 pm

IT3-38

Comprehensive Evaluation of High-Temperature Incineration for PFAS Destruction and Disposal

Dietrich Hovener, Sean Grady, Veolia North America

2:15 pm – 2:40 pm

IT3-24

PFAS Destruction Testing Results at Clean Harbors, Aragonite Hazardous Waste Incinerator

John Kumm, EA Engineering, Science, and Technology, Inc., PBC; Bill Troxler, Focus Environmental, Inc.; AnnieLu DeWitt, Clean Harbors

2:45 pm – 3:15 pm

Networking Break and Display Viewing

Ballroom/Ballroom Foyer

Networking Breaks Sponsored By:



Technical Program – Wednesday, October 28, con't.

Session 3: Sensing and Refractory Updates

Chair: Cornelia Cretiu, SOLVAir

Sponsored By:



3:15 pm – 3:40 pm

IT3-33

Emissions Measurement Challenges at Pyrolysis and Gasification Facilities

Rich Trzupek, Alliance Technical Group

3:40 pm – 4:05 pm

IT3-35

Assessing Health Risks from PFAS Air Emissions from Municipal Solid Waste Management

Stephen Zemba, Risk Insight, LLC; Matthew Estabrooks, Sanborn, Head & Associates, Inc.

4:05 pm – 4:30 pm

IT3-30

Changing Feed Streams and the Effects on Refractory Wear

Joshua Sayre, HWI, A member of Calderys

4:30 pm – 4:55 pm

IT3-05

PM CEMS Experiences, Observations, and Updates

Robert Baxter, Derrick Hinkle, Ralph Bard, B3 Systems, Inc.

5:00 pm – 6:00 pm

Networking Reception

Ballroom/Ballroom Foyer

Technical Program – Thursday, October 29

7:30 am – 3:00 pm

Conference Registration

Ballroom Foyer

7:30 am – 8:30 am

Continental Breakfast

Ballroom/Ballroom Foyer

Session 4: Air Pollution Control Technology Research

Chair: Jennifer Kelley, Clean Harbors

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8:30 am – 8:55 am

IT3-04

Air Pollution Control for Sustainable Material Recovery: Case Studies in

Catalyst and Activated Carbon Reactivation

Gerardo Alfaro, Envitech, Inc.

8:55 am – 9:20 am

IT3-10

Meeting the Most Stringent Air Emission Limits in RDF Applications

Néstor Carrasco, Cornelia Cretiu, Seung-Min Song, SOLVAY

9:20 am – 9:45 am

IT3-16

Activated Carbon Reactivation: A Circular Approach to PFAS Management

Prasad Galhena, DESOTEC US LLC

9:45 am – 10:10 am

IT3-15

Beware the Purple Cloud: Best Practices and Challenges for Iodine Recycling

Joel Frost, Iochem Corporation

10:10 am – 10:30 am

Networking Break and Display Viewing

Ballroom/Ballroom Foyer

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Technical Program – Thursday, October 29, con't.

Session 5: Thermal Process Applications

Chair: Tarun Podder, W.L. Gore and Associates

10:30 am – 10:55 am

IT3-27

Thermal Treatment of Dioxin-Contaminated Soil at the Bien Hoa Airbase

*Darryl Nelson, John Tucker, Nelson Environmental Remediation;
Bill Troxler, Matthew Klingerman, Focus Environmental, Inc.*

10:55 am – 11:20 am

IT3-36

Clean and Affordable Low-Temperature Thermal Preprocessing of End-of-Life Lithium-Ion Batteries

*Zhonghua Zhan, Xiaolong Li, Reaction Engineering International;
Sili Deng, David Keisar, Massachusetts Institute of Technology;
Andrew Fry, Brigham Young University; Kayden Alderson, Utah
San Rafael Laboratory; Chao Hui, American Battery Factory*

11:20 am – 11:45 am

IT3-39

Pressurized Entrained-Flow Gasification of Waste for Efficient Conversion to Clean Syngas

Kevin Whitty, The University of Utah

11:45 am – 12:10 pm

IT3-40

Conversion of Waste Plastics to Oil Through Pyrolysis with Controlled Product Reflux

Angela A. Darko, The University of Utah

12:10 pm – 12:35 pm

IT3-18

Shifting from Disposal to Recovery: The Environmental and ESG Benefits of H050 Energy Recovery at the Gum Springs Facility

Britt Scheer, Veolia North America

12:35 pm – 1:35 pm

Lunch

Atrium

Session 6: Regulatory and Policy Developments

Chair: Jeremias Szust, Trinity Consultants

1:35 pm – 2:00 pm

IT3-22

An Update on the HWC RTR Final Rule

Melvin Keener, CRWI

2:00 pm – 2:25 pm

IT3-23

Mapping the Maze: Federal Rules for Biosolids and Wood Fed Thermal Treatment Technologies

Mark Kiffe, Bay Area Air Quality Management District

2:25 pm – 2:50 pm

IT3-31

Combining Community-Based Monitoring and Back-Trajectory Modeling for Odor Culpability Analyses

Jeremias Szust, Trinity Consultants

2:50 pm – 3:15 pm

IT3-34

HWC MACT Final Rule: Are You Ready?

Christopher Ward, ALL4

3:15 pm – 3:30 pm

Networking Break and Display Viewing

Ballroom/Ballroom Foyer

Panel: Thermal Destruction of PFAS: Updates and Future Policy Questions

3:30 pm – 4:00 pm

Hear our panel of experts discuss the latest developments in thermal destruction of PFAS, along with an update on upcoming regulations and policy changes, impacts, and guidance. Panelists include:

- *Dietrich Hovener, Veolia North America*
- *Melvin Keener, CRWI*
- *Stephen Lorah, Arcwood Environmental*

4:00 pm – 4:05 pm

Conference Wrap-Up/Adjournment

4:05 pm – 5:00 pm

Program Advisory Committee (PAC) Meeting