



AIR & WASTE MANAGEMENT
ASSOCIATION

SINCE 1907

PRELIMINARY PROGRAM

Advancements in Vapor Intrusion and Emerging Contaminant Air Quality Issues

Virtual Conference
September 23-24, 2021



www.awma.org/vapor

PRELIMINARY PROGRAM

GENERAL INFORMATION

CONFERENCE OVERVIEW

Building off the momentum gathered during the nine previous meetings, this year's vapor intrusion specialty conference will bring together internationally-recognized scientists, engineers, regulators, and attorneys to share research and solutions on the latest developments in the investigation and mitigation of the vapor intrusion (VI) pathway, including indicators and tracers, toxicology, risk assessment, sampling and laboratory analysis, as well as the newly-added topic of emerging contaminants.

REGISTRATION

Register online at www.awma.org/vapor.

Registration includes access to all live keynotes, panels, and presentations offered online during the conference, plus recordings of all of the presentations online for three months following the conference.

Online registrants will receive a confirmation and receipt, which they can access at any time by logging into their account. Your registration will not be processed without payment.

A few days prior to the conference, registrants will receive instructions on how to access the links for the virtual conference.

CONFERENCE COMMITTEE

Conference Chair:

Matthew Traister, Ramboll

Committee Members:

Robert Ettinger, Geosyntec Consultants

Loren Lund, Jacobs

Rich Rago, Haley & Aldrich

CONFERENCE PROCEEDINGS/ON DEMAND ACCESS

Conference proceedings will include recordings of the live sessions and slides from presenters who have provided permission. The online proceedings will be accessible from the virtual conference website for three months following the conference. Attendees will be notified when the recordings and slides have been posted.

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. For more information, please contact Gloria Henning at +1-412-904-6021 or glhenning@awma.org.

ABOUT THE AIR & WASTE MANAGEMENT ASSOCIATION

A&WMA is a non-profit, nonpartisan professional organization that enhances knowledge and expertise by providing a neutral forum for technology exchange, professional development, networking opportunities, public education, and outreach to more than 5,000 environmental professionals in 65 countries. A&WMA also promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society. For more information, please visit www.awma.org.

PRELIMINARY PROGRAM

TECHNICAL PROGRAM – Thursday, September 23

KEYNOTE ADDRESS

10:00 am – 10:45 am ET

Welcome and Introductory Remarks

Brian Bunger, A&WMA President, and Matthew Traister, Ramboll, Conference Chair

Environmental Exposures to Trichloroethylene (TCE) Do Not Cause Congenital Heart Defects

John M. DeSesso, Ph.D., Principal Scientist, Exponent, and Professor, Georgetown University School of Medicine

SESSION I: VI ATTENUATION FACTORS — A CRITICAL REVIEW

10:45 am – 12:00 pm ET

Chair: Matthew Traister, Ramboll

VI39

Alternatives to Conservative Default Attenuation Factors for Assessing Vapor Intrusion in Industrial Buildings

Jennifer Simms, Jacobs, Indianapolis, IN

VI45

Improving Risk-Based Screening at Vapor Intrusion Sites in California

Matthew Lahvis, Robert Ettinger, Shell Global Solutions (US), Inc., Houston, TX

VI27

More Data from Large Industrial Buildings – VI Attenuation Factors and Seasonal Variability

Bart Eklund, Jessica Milose, Lisa DeGrazia, Carly Ricondo, Helen Artz-Patton, AECOM, Austin, TX

12:00 pm – 12:10 pm ET

Break

SESSION II: INNOVATIVE VI INVESTIGATIVE TECHNIQUES

12:10 pm – 1:00 pm ET

Chair: Robert Ettinger, Geosyntec Consultants

VI40

Using the Navy's Quantitative Decision Framework, and Building Pressure Cycling to Prioritize and Investigate Large-Scale Buildings

Loren Lund, Jacobs, Shelley, ID

VI32

Rapid and Effective Characterization of Building Susceptibility to Vapor Intrusion with Building Pressure Control

Theresa Gabris, Helen Dawson, Geosyntec Consultants, Washington, DC

1:00 pm – 1:15 pm ET

Break

SESSION III: THE LATEST INVESTIGATIVE TOOLS: TRACERS AND INDICATORS (PANEL)

1:15 pm – 2:15 pm ET

Chair: Loren Lund, Jacobs

Panelists:

- Teresie Walker, Naval Facilities Engineering Systems Command Atlantic
- Laurent Levy, Jacobs
- Shawn Tisdale, Alaska Department of Environmental Conservation
- Matthew Plate, U.S. EPA Region 9 (Invited)

2:15 pm – 2:30 pm ET

Break

PRELIMINARY PROGRAM

TECHNICAL PROGRAM – Thursday, September 23, con't.

SESSION IV: CASE STUDIES

2:30 pm – 4:15 pm ET

Chair: Rich Rago, Haley & Aldrich

VI09

Use of Multiple Tools to Differentiate VI Pathways and Indoor Air Impacts in an Industrial Building

Jennifer Sanborn, David Shea, Sanborn, Head & Associates, Inc., Concord, NH

VI28

Lessons-Learned from Radon at a Chlorinated Vapor Intrusion Research House

Chase Holton, Yuanming Guo, Emma Hong Luo, Paul Dahlen, Paul C. Johnson, Geosyntec Consultants, Greenwood Village, CO

VI04

HVAC System Engineering Controls for VI: Results for Multiple Commercial and Industrial Buildings

David Shea, Jennifer H. Sanborn, Kevin Whalen, Sanborn, Head & Associates, Inc., Concord, NH

VI33

Use of a Comprehensive Ventilation Assessment to Inform a Vapor Intrusion Evaluation

Brian Geissler, Dan Denyer, Sean Crowell, Tom Salimeno, Loureiro Engineering Associates, Inc., Plainville, CT

TECHNICAL PROGRAM – Friday, September 24

SESSION V: VI SPECIALTY TOPICS

10:00 am – 10:50 am ET

Chair: Rich Rago, Haley & Aldrich

VI35/VI36

Unsaturated Zone Mass Discharge Test – A Review of Test Procedure and Conceptual Interpretation Based on More Than 20 Tests

Per Loll, Nanna Muchitsch, Trine S. Jepsen, Martin Flyhn, DMR A/S, Denmark

VI44

Source Depletion in Petroleum Vapor Intrusion Estimates

George DeVaul, Matt Lahvis, Shell Global Solutions (US), Inc., Houston, TX

10:50 am – 11:00 am ET

Break

SESSION VI: A REGULATOR'S PERSPECTIVE (PANEL)

11:00 am – 12:20 pm ET

Chair: Rich Rago, Haley & Aldrich

The planned Regulatory Panel will include brief presentations from federal and state vapor intrusion regulatory leaders with a focus on current guidance directions and lessons learned, followed by an open discussion forum.

12:20 pm – 12:30 pm ET

Break

PRELIMINARY PROGRAM

TECHNICAL PROGRAM – Friday, September 24

SESSION VII: THE IMPORTANCE OF SEWERS AS PREFERENTIAL PATHWAYS

12:30 pm – 1:20 pm ET

Chair: Robert Ettinger, Geosyntec Consultants

VI46

A Logical Approach for Evaluating the Vapor Intrusion Sewer Gas Pathway

Gina M. Plantz, Haley & Aldrich, Inc., Burlington, MA

VI25

The Importance of Sanitary Sewers as the Expected Preferential Pathway in Vapor Intrusion Evaluations

Craig Cox, Cox-Colvin & Associates, Inc., Plain City, OH

1:20 pm – 1:30 pm ET

Break

SESSION VIII: ALL THINGS PFAS

1:30 pm – 3:30 pm ET

Chair: Loren Lund, Jacobs

VI30

Sampling and Analysis for the Characterization of PFAS in Stack Gas and Ambient Air

Taryn McKnight, Eurofins Environment Testing US, Sacramento, CA

VI08

PFAS Vapor Intrusion – Really A Concern?

Stephen Zemba, David Shea, Sanborn, Head & Associates, Inc., Burlington, VT

VI22

How Volatile is PFAS?

Julia Roth, Clean Vapor, LLC, Blairstown, NJ

VI29

A Theoretical Assessment of PFAS VI Potential

Helen Dawson, Travis Kline, Geosyntec Consultants, Washington, DC

VI31

Investigating the Connection Between PFAS Air Emissions and Stormwater and Drinking Water Contamination at an Active Manufacturing Site

Matthew Traister, Ramboll, Maineville, OH

3:30 pm – 3:45 pm ET

Break

SESSION IX: VAPOR INTRUSION MITIGATION

3:45 pm – 5:00 pm ET

Chair: Matthew Traister, Ramboll

VI03

Real-Time Air Monitoring to Optimize VI Preferential Pathway Mitigation in an Industrial Building

Joseph W. Corsello, Sanborn, Head & Associates, Inc., Boston, MA

VI11

Dual Purpose Sub-Slab Depressurization: Achieving Pathway Mitigation and Source Remediation

Allison Roche, Lisa Campe, Woodard & Curran, Sherborn, MA

VI21

Limiting Vapor Intrusion Liability through Planned OM&M and Extended Stewardship

Thomas E. Hatton, Clean Vapor, LLC, Blairstown, NJ

5:00 pm ET

Closing Remarks/Adjournment