

TECHNICAL PROGRAM - Wednesday, December 5, 2018

7:30 am - 4:00 pm
Conference Registration

7:45 am - 8:30 am
Presenters' Meeting

7:30 am - 8:30 am
Continental Breakfast

8:30 am - 8:45 am
Welcome and Introductory Remarks
Matthew Traister, OBG

8:45 am - 9:30 am
Keynote Address
Vapor Intrusion—Honeywell's Experiences at Multiple Sites
John Morris, Global Remediation Director, Honeywell

Session I: NEW REGULATORY PERSPECTIVES ON VAPOR INTRUSION

Chair: Matthew Traister, OBG

9:30 am - 9:55 am
Control #VI17
VI Guidance and Regulatory Considerations - Wisconsin's Perspective
Judy Fassbender, Wisconsin Department of Natural Resources, Madison, WI

9:55 am - 10:20 am
Control #VI31
Guidelines for VI Mitigation in Denmark
Tage V. Bote, Bjarke N. Hoffmark, Hanne Nielsen, Klaus Bundgaard Mortensen, COWI A/S, Lyngby, Denmark

10:20 am - 10:45 am
Networking Break

10:45 am - 12:15 pm
Session II: TCE SHORT-TERM TOXICITY PANEL
Chair: Rich Rago, Haley & Aldrich, Inc.

Presenters:

- Donna Caldwell, Geologist, Naval Facilities Engineering Command Atlantic, Norfolk, VA
- David Gillay, Partner, Barnes & Thornburg LLP
- Ann Verwiel, Senior Managing Scientist, ToxStrategies, Inc.
- Laura Trozzolo, Senior Risk Assessor/Vapor Intrusion Specialist, TRC Solutions

12:15 pm - 1:15 pm
Lunch and Presentation
Update on Indicators, Tracers and Surrogates for Improving VI Assessments
Henry Schuver, US EPA, Office of Land and Emergency Management (OLEM)

Session III: NEW DEVELOPMENTS IN VI SAMPLING AND ANALYSIS—MASS FLUX MEASUREMENTS AND REAL-TIME MONITORING

Chair: Rich Rago, Haley & Aldrich, Inc.

1:30 pm - 1:55 pm
Control #VI36
New Methods for Design and Monitoring of Vapor Intrusion Mitigation Systems
Todd McAlary, Geosyntec Consultants, Inc, Toronto, ON; William Wertz, Geosyntec Consultants, Inc, Albany, NY; Darius Mali, Guelph, ON

1:55 pm - 2:20 pm
Control #VI23
Use of Mass Loading Assessments to Characterize Potential Risks from VI
Helen Dawson, Geosyntec Consultants, Washington, DC; William Wertz, Geosyntec, Albany, NY; Todd McAlary, Geosyntec, Toronto, ON; Daniel Carr, DBCarr Consulting, Dayton, ME; Theresa Gabris, Geosyntec, Washington, DC

2:20 pm - 2:55 pm
Control #VI02
Rapid Resolution of VI Challenges via Automated Continuous Real-Time Monitoring and Response
Blayne Hartman, Hartman Environmental Geoscience, Solana Beach, CA; Mark Kram, and Cliff Frescura, Groundswell Technologies, Santa Barbara, CA

2:55 pm - 3:20 pm
Control #VI35
Near Real-Time Soil Vapor Plume Delineation for VI Investigations—Lessons Learned
Jennifer Simms, Jacobs, Indianapolis, IN; Chris Lutes, Jacobs, Raleigh, NC; Loren Lund, Jacobs, Shelley, ID

3:20 pm - 3:45 pm
Control #VI26
A New Tool to Meet Risk-Based Screening Levels for VOCs in Soil Gas with High Matrix Effects
Heidi C. Hayes, Diane Benton, Eurofins Air Toxics, Folsom, CA

SESSION IV: Tour of Honeywell facility in Tempe, AZ

Chair: Loren Lund, CH2M

4:00 pm - Bus departs from The Westin
6:00 pm - Bus returns from the tour

6:00 pm - 7:30 pm
Welcome Reception and Poster Session

TECHNICAL POSTERS

POSTER SESSION

Wednesday, Dec. 5, 6:00 pm - 7:30 pm

Posters will also be on display throughout the conference on Thursday.

Control #VI03

Remote Vapor Intrusion Air Sampling Using SGS Galson-Smart Sense

Harry Behzadi, SGS North America Inc., Rutherford, NJ

Control #VI10

Proton Transfer Reaction Mass Spectrometry (PTR-MS) for continuous monitoring of Vapor Intrusion Sources

L. Joe Sears, Heinz J. Huber, Peter Zemek, Austin Heitmann, RJ Lee Group, Pasco, WA

Control #VI12

O&M of Vapor Mitigation – Setting the Stage for Regulatory Approval

Alyssa A. Sellwood, TRC Solutions, Madison, WI

Control #VI14

A Non-invasive, Surface Method for Direct Gas Flux Measurements

Deirdre Mallyon, Nick Nickerson, Colleen Gosse, Eosense Inc., Dartmouth, NS, Canada

Control #VI15

Maximizing Radius of Influence for More Efficient Big Building Mitigation

Rachel Saari, Mitch Wacksman, Arcadis, Kingsford, MI

Control #VI18

Overcoming Challenges with Project-Specific Techniques to Evaluate Vapor Intrusion (VI)

Ryan Wahl, Weston Solutions, Inc., West Chester, PA

Control #VI21

Closure of a Former Dry Cleaning Site Using Pilot Testing for the Design and Operation of an Active Sub-Slab Vapor Mitigation System to Mitigate PCE/TCE

Bob Roth, Andy Safulko, Terracon, Wheat Ridge, CO

Control #VI28

Vapor Intrusion Assessment Using a Surrogate Attenuation Factor

Tom Biksey, Stephanie Koehne, Nigel Goulding, Chrissy Peterson, EHS Support, Washington, PA

Control #VI34

Identifying an Indoor Source of VOCs: The Case of the Trash Dumpster

Sigrida Reinis, Hayley Farr, Jessica Schaettle, Jeffrey F. Ludlow, Langan Engineering and Environmental Services Inc., Oakland, CA

Control #VI37

Whole Air Sampling and Air Media: The Inside Story on Sampling: Air Media and Sample Matrix Effects: How They Affect Laboratory Data and the Data Quality Reported

Andy Rezendes, Will Elcoate, Alpha Lab, Westborough, MA

Control #VI38

Sorbent Sampling with an Emphasis on Passive Sampling – Options, Application, and Comparison Studies

Rob Uppencamp, Arcadis, Indianapolis, IN

TECHNICAL PROGRAM - Thursday, December 6, 2018

7:30 am - 3:00 pm

Conference Registration

7:30 am - 8:15 am

Presenters' Meeting

7:30 am - 8:15 am

Continental Breakfast

Session V: VAPOR INTRUSION ASSESSMENT AND DATA EVALUATION

Chair: Loren Lund, CH2M

8:15 am - 8:40 am

Control #VI22

Empirical Analysis of Vapor Intrusion Attenuation Factors for Sub-Slab and Soil Vapor - An Updated Assessment for California Sites

Robert Ettinger, Steve Luis, Nadine Weinberg, Todd McAlary, Gina Plantz, Helen Dawson, Geosyntec, Santa Barbara, CA

8:40 am - 9:05 am

Control #VI20

Improved Approaches for VI Assessment of Multiple Building Types

Ian Hers, Parisa Jourabchi, Golder Associates, Vancouver, BC, Canada

9:05 am - 9:30 am

Networking Break

9:30 am - 9:55 am

Control #VI30

Advection. Diffusion. It's No Illusion!: An Analysis of TCE Diffusion Through Concrete Slabs

Eric Lovenduski, Geosyntec Consultants, Latham, NY; Jared Brisman, Geosyntec Consultants, Ewing, NJ; Matthew Mraw, Geosyntec Consultants, Blue Bell, NJ; Helen Dawson, Geosyntec Consultants, Washington DC; Bill Wertz, Geosyntec Consultants, Albany, NY; Todd Creamer, Geosyntec Consultants, Portsmouth, NH

9:55 am - 10:20 am

Control #VI27

High Performance Passive Compartment Ventilation System: CFD-Simulations and Three Years of Monitoring Data

Bjarke N. Hoffmark, COWI A/S, Odense, Denmark; Tage V. Bote, Morten Dreyer, Jacob Bukh, COWI A/S, Lyngby, Denmark; Line M. Fischer, Mariam Wahid, Capital Region of Denmark, Hilleroed, Denmark

10:20 am - 10:45 am

Control #VI06

Methods for Field Application of CSIA to Evaluate Residential VI of TCE

Devon Rowe, Carol Serlin, Ramboll US Corporation, Vancouver, WA; Safaa Dergham, Erik Pearson, Ramboll US Corporation, Irvine, CA

10:45 am - 12:00 pm

Session VI: VI SITE CLOSURE PANEL

Chair: Robbie Ettinger, Geosyntec

Presenters:

- Matt Narter, Hydrologist, Arizona Department of Environmental Quality
- Michelle Hartman, Environmental Specialist, Missouri Department of Health and Senior Services
- Matthew Williams, Environmental Quality Specialist, Michigan Department of Environmental Quality

12:00 pm - 1:15 pm

Presentation and Lunch

What do these items have in common? TCE Averaging Time, PFOA Kinetics and the US Senate

Michael Dourson, Director of Science, Toxicology Excellence for Risk Assessment

Session VII: VAPOR INTRUSION MITIGATION AND CASE STUDIES

Chair: Matthew Traister, OBG

1:15 pm - 1:40 pm

Control #VI08

VI Assessment and Remediation of a Challenging Industrial Building Using Interior SVE

Joseph W. Corsello, David Shea, Sanborn, Head & Associates, Inc., Concord, NH; Kevin Whalen, IBM Corporation, Manassas, VA

1:40 pm - 2:05 pm

Control #VI16

Case Study - Complete VI Mitigation Services for an Industrial Plastics Manufacturing Plant

Paul Hurst, Ian Hers, and Bob Ireson, Golder Associates Inc., Vancouver, BC, Canada

2:05 pm - 2:30 pm

Control #VI33

State-of-the-Science Update on Evaluating Vapor Intrusion Preferential Pathways

Julia Roth, Jacobs, Charlotte, NC; Chase Holton, Jacobs, Englewood, CO; Loren Lund, CH2M, Shelley, ID

2:45 pm - 3:10 pm

Control #VI32

Sewer Systems as Potential VI Preferential Pathways

Tage V. Bote, Bjarke N. Hoffmark, Hanne Nielsen, Klaus Bundgaard Mortensen, COWI A/S, Lyngby, Denmark

3:10 pm - 3:35 pm

Control #VI09

Mass Flux of VI After Groundwater Plume Cleanup in Endicott, NY

David Shea, Bradley A. Green, Sanborn, Head & Associates, Inc., Concord, NH; Kevin Whalen, IBM Corporation, Manassas, VA