



**Update on Vapor Intrusion at U.S. EPA (With Opportunities for Public Input)  
(The 20th Annual AEHS International Conference on Soils, Sediments, Water, and  
Energy – March 16, 2010, San Diego, CA; or watch AEHS website for Webinar option)**

Increasing attention has been given to understanding the impacts of subsurface vapor contaminant migration into overlying buildings. Many of these impacted structures are residences and manufacturing facilities where current and future occupants can face undesirable health risks. The science of determining, characterizing, and managing these risks is constantly evolving, and much remains to be done in assisting regulators, consultants, and other decision-makers to make informed decisions about assessing and mitigating vapor intrusion and reducing these risks.

The U.S. Environmental Protection Agency's (EPA's) Office of Research and Development (ORD) has been very proactive in providing technical assistance and support to the EPA program office (Office of Solid Waste and Emergency Response [OSWER]), EPA regional offices, other federal agencies, state regulators, and other interested parties who are dealing with vapor intrusion issues. This workshop will provide a general update on the status of EPA's Vapor Intrusion Guidance efforts, as well as information on some of the most recent significant findings and advancements from technical support activities completed to date. This support comes from research studies, demonstration projects, field studies, commercial cleanups, and data analyses. Many of the contributors to these efforts have been investigating vapor intrusion for nearly two decades and continue to advance the science of understanding this vexing problem.

**8:00 Introduction**

- 8:00–8:10 Context for Today's Workshop (EPA Top Priorities and OSWER Initiatives)  
*Henry Schuver, U.S. EPA Office of Resource Conservation and Recovery (ORCR)*
- 8:10–8:20 History of Vapor Intrusion Workshops and the Purpose of this One  
*Doug Grosse, U.S. EPA ORD*
- 8:20–8:30 A Community Stakeholder on OSWER's Community Engagement Initiative  
*Lenny Siegel, Center for Public Environmental Oversight (CPEO)*

**8:30 Science Update**

- 8:30–9:00 Final Background Document (Including New Responses to Peer Review Comments)  
*Jeff Kurtz, EnviroGroup Limited*
- 9:00–9:45 Final Vapor Intrusion Database Document (Including New Responses to Peer Review Comments)  
*Helen Dawson, U.S. EPA Office of Superfund Remediation and Technology Innovation (OSRTI)*

9:45–10:00 Break

- 10:00–10:40 Final Conceptual Model Scenarios (CMS) Document (Including New Responses to Peer Review Comments)  
*Lilian Abreu, ARCADIS*
- 10:40–11:05 Field Observations on Ground Covers/Buildings – *Brian Schumacher, U.S. EPA ORD*
- 11:05–11:30 Lessons from Radon Studies and Databases  
*Henry Schuver, U.S. EPA ORCR; and Ron Mosley, U.S. EPA ORD*
- 11:30–11:50 Region 9 Studies—Non-Residential Buildings and Passive Samplers  
*Kathy Baylor, Mathew Plate, and Alana Lee, U.S. EPA Region 9*
- 11:50–12:00 Public Comments, Questions, and Input on Updates to Vapor Intrusion Science

*Draft Agenda – 2/5/10 – Subject to Change*

12:00–1:00 Lunch

1:00–1:30 Summary of Passive Methods and Other Cutting-Edge Vapor Intrusion Research  
*Todd McAlary, GeoSyntec Consultants*

**1:30 Guidance and Policy Activities at U.S. EPA (With Opportunity for Public Input)**

*Stiven Foster, OSWER; Henry Schuver, ORCR; and Helen Dawson, OSRTI*

1:30–1:45 HQ Update and Summary of Office of Inspector General (OIG) Recommendations (1–3)

1:45–2:00 OIG Recommendation #1– Review of 2002 Guidance

2:00–2:15 OIG Recommendation #2 – Finalize Guidance (Focus on ORCR and OSRTI Co-lead Elements)

**2:15 Opening a National Discussion—Perspectives by an International Consultant, State, and Community Representative**

2:15–2:45 Using Multiple Lines of Evidence (MLE)

*Todd McAlary, GeoSyntec; Bill Wertz, New York State Department of Environmental Conservation (NYSDEC), Lenny Siegel, CPEO*

2:45–3:00 Public Comments, Questions, and Input on Using MLE

3:00–3:15 Break

3:15–3:45 Mitigation Decisions, Operations, and Closure

*Ian Hers, Golder Associates; Bill Wertz, NYSDEC; and Lenny Siegel, CPEO*

3:45–4:00 Public Comments, Questions, and Input on Mitigation Issues

**4:00 Petroleum Vapor Intrusion**

4:00–4:20 Final CMS document - A Focus on Petroleum Scenarios

*Lilian Abreu, ARCADIS*

4:20–4:45 New Additions to the Vapor Intrusion Database (Petroleum from New York)

*Bill Wertz, NYSDEC*

4:45–5:00 Office of Underground Storage Tanks (OUST) Update on Petroleum Vapor Intrusion Efforts/Guidance

*Matt Young, U.S. EPA OUST*

5:00–5:30 Open Panel Discussion—Public Questions and Comments on Presentations and (as Time Permits) Issues Related to the Regulatory Challenges in Addressing Uncertainty, Spatial and Temporal Variability, Confidence in Vapor Intrusion Assessments, and Costs and Benefits

*All Speakers*

**5:30 Workshop Ends**