***US EPA Workshop on:***

**Measurement-Based Methods for Protective & Defensible Chlorinated VI Exposure Determinations –**

**(*Applying Additional Observations through ITS Methods: What, Where, When, How, & Why are we Measuring?)***

**AEHS East Coast Conference, October 22, 2019, Amherst MA**

**Agenda**

8:30 01**\_** Introduction: Measurement-Based Methods for Protective & Defensible Chlorinated Vapor Intrusion (VI) Exposure Determinations – *Henry Schuver, U.S. EPA Office of Resource Conservation and Recovery (**schuver.henry@epa.gov**)*

8:55 Audience Input & Recommendations

9:00 02**\_** Methods for Measuring Temperature, Pressure and Radon: What, Where, When, and How? - *Chris Lutes, Jacobs*

9:30 Questions

9:3503**\_**New and Currently Available Instruments, Including Multiple Sensor and Triggered-Sampling Systems - *Chase Holton, Geosyntec*

9:55 Questions (early morning)

10:00 Break

10:30 04**\_**Introduction to Case Study Presentations in a National Context – *Chris Lutes, Jacobs; Chase Holton, Geosyntec*

*11:00-Noon Temporal – T, P, Rn - (VA DoD Sites)*

11:00 05\_Vapor Intrusion Indicators, Tracers, and Temporal Variability of cVOCs in Industrial Buildings (DoD VA Site) - Climate Zone 3A – T, P, Rn - *Loren Lund, Jacobs*

11:30 06\_Site 2 - DoD VA Site B – T, P, Rn, Moisture - Climate Zone 3A – *Alan Rosner, Clarkson University*

*12:00 Lunch*

*1:30-3:00 Temporal – T, P, Rn (other sites)*

1:30 07\_Site 3 - Quantifiable Building and Environmental Factors Influencing Vapor Intrusion - Alaska Sites – Climate Zone 8 - *David Barnes, University of Alaska Fairbanks*

2:00 08\_Site 4 –MEW/Moffett Field Buildings 15 and 17 – A Review of Multiple Published Studies - Climate Zone 3C - *Chris Lutes, Jacobs*

*2:20* 09 Site 5 CRREL – Mitigation Monitoring & Temporal Trends at a Large TCE site, Hanover, NH – Data Availability – VOC data – Climate Zone 6A - *Jay Claussen, CRREL*

2:40 10\_Site 6 –Review of the North Island Site, San Diego, CA – Climate Zone 3C - *Chase Holton, Geosyntec*

3:00 Break

*3:30-5:00 Spatial*

3:30 11\_Site 7 - Spatial & Temporal Variability in PCE & Radon Concentrations at a Large Commercial Facility in Southeastern Wisconsin – Climate Zone 6A - *Tony Miller, Gannett Fleming*

3:50 12\_Site 8 - Wheeler and SEND Buildings in Indianapolis – Radon and Differential Pressure Data in VOC Site Management - Climate Zone 5A - *Chris Lutes, Jacobs*

4:10 13\_Evaluating and Assessing Radon Testing in Housing (EARTH) Study Update, *Kyle Hoylman - Protect Environmental*

4:35 14\_Site 9 – Review of the Redfields Site, Denver, CO – Climate Zone 5B – *Chase Holton, Geosyntec*

4:55 Conclusions – ***Programmatic Deadlines*** and Data Call – We are still looking for good sites!

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6:30 Evening Session – Open working session with speakers (seeking participant input). A comparative discussion of possible conclusions from the data presented. Session Leaders:

**Temperature\_Chris** – Compilation and weight of evidence for use of temperature (outdoor or indoor/outdoor differential) to indicate RME conditions for VOCs in indoor air – principles (Stack Effect) and measurements.

**Pressure\_Chase** – Compilation and weight of evidence for use of differential pressure (indoor/subslab and indoor/outdoor) to indicate RME conditions for VOCs in indoor air, or mitigation success. Evidence for barometric pressure change and wind effects. Pressure: more for monitoring mitigation than assessment.

**Radon\_Henry** – Compilation and weight of evidence on the use of radon as a tracer for VOC intrusion and mitigation effectiveness. Impacts on contaminant attenuation.

*9:00 Workshop Evening Session End*