

## BROWNFIELD REMEDIATION / ASSESSMENT, April 9

### **A Graphic Approach to Interpreting Vapor Intrusion Data with Radar Plots** - PDHUs

**Martin (Mort) A. Schmidt:** (Project Scientist, Cox-Colvin & Associates) Martin Schmidt (Mort) is the Practice Leader for Vapor Intrusion Services at Cox-Colvin, & Associates and is responsible for conducting and managing all vapor intrusion assessments for Cox-Colvin. Cox-Colvin has performed numerous vapor intrusion assessments in Ohio and other states. He also serves as a technical advisor for Cox-Colvin's patented Vapor Pin™, which is used on five continents to collect sub-slab soil gas. Mort also serves as geologist for the company's other environmental consulting projects. Mr. Schmidt previously served as an exploration geologist for Shell International, a radon investigator for the Ohio EPA, and for more than twenty years, an environmental geologist at Geraghty & Miller (Arcadis) and Cox-Colvin.

Mort received his B.S. and M.S. degrees in Geology from the Ohio State University. He has made presentations and taught classes on vapor intrusion at conferences including the AWMA, the Ohio Brownfields Conference, the West Virginia Brownfields Conference, and the AIPG National Meeting.

### **It's Not a Hurdle - It's a Vapor Barrier** - PDHUs

**Tim Acri:** (CHMP, Chief Operations Officer, Environmental Management Specialists, Inc.) Tim Acri has worked extensively on emergency response, site remediation, demolition, construction, earth-moving and remediation pilot study projects. During his 23 years of industry experience, including his military service in the United States Navy, Mr. Acri has served as a field technician, site supervisor, project scientist, project manager, senior project manager, division manager and Chief Operations Officer.

Mr. Acri has worked on a variety of brownfield properties and redevelopment project around the country, including large-scale site former industrial and automotive manufacturing facility development projects. Mr. Acri is a Certified Hazardous Materials Practitioner (CHMP) and has a Bachelor of Science in Environmental Science from Trinity College.

**Bruce Markey:** (Vice President of Construction Development Environmental Management Specialists, Inc.) Bruce Markey currently serves as the Vice President of Construction Development for Environmental Management Specialists, Inc. Mr. Markey is a licensed professional geologist with more than 20 years of experience in business development, strategic planning, estimating, and managing remediation and environmental construction projects for a wide variety of customers, including environmental consultants, energy companies, industrial facilities, public entities, transportation companies, commercial property owners/developers, general contractors, and other environmental service companies.

Mr. Markey developed the gas/vapor barrier service line at EMS and has elevated the company to the preferred applicator status with CETCO, who is the provider of the Liquid Boot gas vapor barrier product line. He has worked on more than 50 remediation projects under the VAP and CORF/COAF programs in Ohio that involved the development of innovative, cost-effective solutions to meet cleanup standards and goals. Mr. Markey has a Bachelor of Science from Indiana University.

**Trisha E. Orsog: (PE, Project Engineer, Hull)** Trisha Orsog is a Project Engineer in Hull's Civil Engineering Practice Group who regularly provides engineering and environmental assessment support to Hull's Civil Engineering and Site Assessment & Remediation Practice Areas. Trisha's experience includes environmental assessment, remediation, and related process engineering, including soil and groundwater treatment system design and installation; in-situ remedies; vapor intrusion mitigation design; and permitting in accordance with federal, state and local regulatory codes (air, water, earthwork and local building and zoning compliance). She has prepared site assessment reports, remedial action plans and O&M Plans for various RCRA, CERCLA, BUSTR and Ohio VAP projects.

Trisha holds a Bachelor of Science in Civil Engineering from Purdue University and is a registered professional engineer in the State of Ohio.

### **Concrete Sampling Methods for VOCs** - PDHUs

**Gavin Armstrong** has been with the OHIO EPA since 1991. He has been an Environmental Specialist 2 with the Division of Environmental Response and Revitalization (DERR). After several years as the DERR QA/QC Coordinator in the Technical Assistance Section, Mr. Armstrong is now part of the team that is the Site Investigation Field Unit (SIFU). Within SIFU, he primarily serves as the Mobile Lab Coordinator. He has served on multiple OEPA Workgroups, assisted with the development of various State Guidance, presented at several Ohio EPA Brownfield Conferences, and provided technical training to OEPA staff, VAP Certified Professionals and private sector personnel - the most recent training provided being on the topic of Vapor Intrusion. Gavin received a bachelor of science degree from Miami University, obtained several technical-based certifications, and completed several years of post-graduate study from THE Ohio State University.

### **VAP Rule Change Overview** - PDHUs

**Tiffani Kavalec:** (Assistant Chief, Ohio EPA) Tiffani Kavalec has been with the Ohio EPA since 1995. Tiffani worked as an Environmental Specialist 2 in the Division of Environmental Response and Revitalization (DERR) Remedial Enforcement Program for over five years. Her duties included development of remedial enforcement cases, negotiating administrative and judicial consent orders, assisting in Attorney General's Office referrals, and serving as witness for litigation. In early 2002, Tiffani became the manager of the Site Assessment and Brownfield Revitalization (SABR) Program. Some of her duties included developing policies and coordinating applications for the Clean Ohio Fund (COF) with the Ohio Development Services Agency, and providing brownfield outreach to local governments.

In 2009, Tiffani became the manager of DERR's Assessment, Cleanup & Reuse (ACRE) section where her duties included oversight of the Voluntary Action Program (VAP), Federal Facilities, Remedial Response, and Site Assessment Programs. As of February, 2014, Tiffani was appointed to the Assistant Chief position within DERR.

Tiffani attended the School of Public & Environmental Affairs (SPEA) at Indiana University obtaining a B.S. in Environmental Science and completed over three years post-graduate work through the University of Findlay's Environmental Management Program.

**Eric Sainey:** (Environmental Specialist 3, Ohio EPA) Eric Sainey has been with the Voluntary Action Program (VAP) since joining Ohio EPA in August 2001. His duties include program and guidance development for the VAP. He provides statewide technical assistance and guidance to internal and external users of the VAP. Eric has served twice as the chairman of the sampling and data issues (phase II assessment) workgroup for the 2009 multi-disciplinary board five-year rule review and the 2014 five-year rule review. He also coordinated development of the VAP soil background database and he is currently coordinating multiple background studies in various counties throughout Ohio. Eric has served as a lead project reviewer and risk assessment reviewer for various no further action letters submitted to the VAP with covenant not to sue requests.

Prior to joining Ohio EPA in 2001, Eric worked as a hydrogeologist in the consulting arena for four years. His past project experience includes investigation and remediation at a number of Bureau of Underground Storage Tank Regulations sites as well as investigatory work at a number of VAP sites. Eric holds a Bachelor of Science in Geology and a Masters of Science in Geology from The Ohio State University.

**Peter Whitehouse:** (Chief, Division of Environmental Response and Revitalization) Peter Whitehouse became the Chief of the Division of Environmental Response and Revitalization (DERR) in February of 2014. His duties include overseeing division programs as well as division administration.

Prior to becoming the Chief, he had been the Assistant Chief of the Division since August of 2000. His duties included overseeing each of the Divisions programs (Assessment, Cleanup and Reuse (ACRE), Site Assistance and Brownfield Revitalization (SABR) Emergency Response (ER), Federal Facilities (FF) and most recently, RCRA Corrective Action and Closure) as well as all aspects of division administration, as directed by the Chief of DERR.

Prior to becoming the Assistant Chief, Peter worked for seven years as an enforcement coordinator in DERR. His primary duty was to prepare, negotiate and reach a mutually accepted resolution to enforcement cases. Other duties included assisting with VAP sufficient evidence determinations, preferred plans and decision documents, and policy development. Prior to working for Ohio EPA Pete was a radiological control engineer for the Newport News Shipbuilding Company in Virginia.

Peter earned a B.S. in Mechanical Engineering from the Ohio State University, and an MBA at Ohio State's Fisher College of Business.

### **ASTM E1527-13, AAI, and the Unanswered Questions: Phase I ESA Practice Today - PDHUs**

**Jeffrey P. Hullinger:** (P.E., Ohio VAP Certified Professional #214, President at Carnoustie Consulting, Ltd.) Mr. Hullinger has more than 30 years of technical and project management experience in environmental and process engineering, including applied research, consulting, and in-house engineering for a waste management company. His technical practice areas include brownfield site investigation, remediation and development; air quality; solid and hazardous waste management; stormwater; wastewater; and general environmental regulatory compliance. Mr. Hullinger has provided services in permitting, site evaluation, contamination assessment, waste minimization, and remedial action design. His clients have included municipalities, authorities, and companies in the organic chemicals, inorganic and organometallic chemicals, rubber, iron and steel, nonferrous metals, electronics, food processing, and surface coating industries.

Mr. Hullinger has conducted site investigation and remediation projects at a wide variety of properties, including integrated and specialty steel mills, wood-treating facilities, refineries, primary and secondary smelting facilities, and electronics manufacturing facilities. These investigations have been conducted under RCRA, CERCLA, and state brownfield programs in Ohio, Pennsylvania and Indiana. He has been the Certified Professional responsible for a total of six No Further Action (NFA) Letters under the Ohio EPA Voluntary Action Program (VAP). He has conducted Phase I, Phase II, and remediation projects at a wide variety of sites. Mr. Hullinger was a member of the Ohio EPA Working Group responsible for development of that agency's May 2010 guidance document "Sample Collection and Evaluation of Vapor Intrusion to Indoor Air." He is also a member of the ASTM E-50 Committee responsible for Standard E1527, Phase I Environmental Site Assessment Process.

**Craig A. Sturtz:** (Principal, Squire Sanders) Craig Sturtz practices in the firm's environmental health and safety group and counsels corporations, developers and municipalities on a broad range of environmental matters including pursuing permit appeals and defending enforcement actions, compliance with federal and state hazardous and solid waste laws, brownfields redevelopment and voluntary cleanups, and minimization of environmental liability in complex commercial and real estate transactions.

Craig's practice includes all major state and federal environmental acts including the Clean Water Act, Resource Conservation & Recovery Act, Emergency Planning and Community Right to Know Act, Comprehensive Environmental Response, Compensation, and Liability Act and Clean Air Act. He was recently involved in the successful defeat of a challenge relating to the Endangered Species Act (ESA) and continues to advise clients on ESA issues.

Craig frequently appears before the Ohio Environmental Protection Agency, the Environmental Review Appeals Commission and the United States Environmental Protection Agency regarding compliance and enforcement issues.

### **How Valid is the BUSTR NFA Letter in the Context of the VAP? – PDHUs**

**Matthew D. Knecht:** (President HzW Environmental Consultants, LLC (HzW)) Matt has been involved in Brownfield assessment and remediation his entire professional career, which began in 1985. He has also been active with Ohio's VAP since its inception in 1994. Under Matt's direction, HzW submitted the first two (2) NFA Letters which resulted in the issuance of the first two (2) Covenants Not to Sue under the VAP. While he also tackles RCRA and CERCLA projects, Brownfields remain his professional "sweet spot". An active VAP Certified Professional, Matt has completed 39 VAP NFA Letters, resulting in 32 Covenants Not to Sue from the Ohio EPA, with 5 NFA Letters for which no CNS was sought, and 2 NFA Letters pending final action by Ohio EPA. To date, he has written NFA Letters for properties totaling over 878 acres, or nearly 1.4 square miles of the State of Ohio. Matt has never met a Brownfield that he doesn't like...well, OK, maybe one or two, but that's it.

An absolute academic lost cause, Matt somehow managed to hoodwink Earlham College in Richmond, Indiana into handing him a Bachelor of Arts degree with a Geology major in 1982. He similarly conned the trustees of Miami University in Oxford, Ohio into giving him a Master of Science degree in Geology in 1988. On a personal level, Matt is a proven trouble-maker and instigator, and makes stuff up at will. Two things that are apparently not made up are his goal to reach the highest point in each of the lower 48 continental United States and Hawaii (28 down with 21 to go), and his love of beaches on islands in the Caribbean.