

BROWNFIELD REMEDIATION / ASSESSMENT, April 10

Management of In-Situ Degradation - PDHUs

Dr. Robert J. Pirkle has focused his formal training in chemistry in the area of the geochemistry of subsurface sediments and ground water, particularly as applied to the in-situ remediation of petroleum, chlorinated solvents and other contaminants in groundwater and near surface sediments. To enable these interests, Dr. Pirkle founded and has developed a nationally recognized environmental services company, Microseeps, which is now a division of Pace Analytical Energy Services, LLC. Microseeps has the capability to plan and design monitoring and remediation programs, provide a full suite of environmental analytical data and to provide data interpretation and reporting. Microseeps is recognized both nationally and internationally as the leader in innovative analyses for the elucidation of groundwater geochemistry for use in application of in-situ degradation.

Measuring the Degradation Rate of Subsurface Free Product by Naturally Occurring Biochemical Processes - PDHUs

Paul Gallagher (Project Director, Sanborn Head and Associates, Inc.) Paul Gallagher is a Project Director at Sanborn Head and Associates, Inc., which provides technical consulting services to industrial, developer, energy, solid waste, and government clients. Paul has worked at Sanborn Head for the past twenty years, and is responsible for overseeing CERCLA and RCRA assessments, regulatory compliance projects, and acquisition/divestiture support services.

Paul is a Certified Professional for the Ohio Voluntary Action Program, a Professional Geologist in New Hampshire, and has received a B.S. in Energy Management and Technology from Ashland College.

Enhanced Electro-Reclamation (EER) - New Cure for Old Problems? - PDHUs

Dr. Jurate Virkutyte: (Chief Environmental Officer, Hammontree and Associates Limited) Jurate Virkutyte currently serves as the Chief Environmental Officer and Director of Operations, Cincinnati Office for Hammontree and Associates, Ltd and is responsible for overseeing all environmental (brownfields, contaminated sediments, water sources) projects the company conducts in Ohio, Pennsylvania, West Virginia and Europe. Hammontree and Associates Limited provides surveying, engineering and scientific services to a vast amount of private, governmental and public clients. Dr. Virkutyte has been in this position since 2013. From 2009 to 2013, Dr. Virkutyte was employed as Senior Environmental Engineer / Project Manager for US EPA, Cincinnati OH and Pegasus Technical Services Inc, Cincinnati, OH. Earlier in her career, Dr. Virkutyte held positions as a Professor with University of Eastern Finland and James Cook University, Australia.

Dr. Virkutyte has a B.S in Chemistry from Vilnius Educology University, Lithuania, an M.S. in Environmental Engineering from Royal Institute of Technology, Sweden and PhD from University of Kuopio, Finland. Jurate has had extensive training and presents training in the areas environmental science and engineering and environmental chemistry.

Methane Inhibition Through Restriction of Enzyme Systems - PDHUs

Wade Meese: Wade Meese is the Vice President of Innovative Environmental Technologies, Inc. (IET). He has been performing biologically and chemically based remediation since the mid 1990's. His unique perspective relating to the integration of mixed technologies and delivery processes has allowed him to apply chemical oxidation, aerobic processes and anaerobic processes along with more traditional remedial approaches. IET was formed in 1998 as a resource for environmental consulting engineers. Since its inception, IET has applied a variety of remedial technologies to over 1,000 sites across the country. Wade holds a bachelor's degree in geology from The Ohio State University, holds patents in delivery and remedial processes, and has published numerous articles relating to his experiences and expertise.

In-Situ Remediation Using a Combination of Zero-Valent Iron and Emulsified Vegetable Oil - PDHUs

Andrew Peterson: (Site Engineer, Environmental Field Services Inc.) Andrew Peterson is an Environmental Engineer that has been with Environmental Field Services (EFS) since 2011. Andrew graduated with a Bachelor of Science in Environmental Engineering from Michigan Technological University in 2010. Before joining the EFS's remedial construction group he worked as a research scientist for an atmospheric modeling group working with the GEOSCHEM computer simulation. Since starting at EFS he has worked on a wide variety of projects including work on five Superfund Sites in four different states. His project experience includes construction of three dimensional computer simulations to predict the fate and transport of contaminated groundwater plumes, construction and operation of pump and treat groundwater remediation systems, design of remedial systems, underground storage tank removal, in situ chemical dechlorination, as well as other consulting and construction services. Recently he acted as the project manager on an in situ chemical dechlorination project at a former dry cleaning operation in northeastern Ohio. The project involved the injection of emulsified vegetable oil and zero valent iron in soils that were composed of clay with sand and gravel stringers. The implementation and results of this project will be the topic of his presentation.

Robert L. Kelley (Ph.D., ARS Technologies, Inc.)

Calamityville - Integrating Creative Reuse and Remediation Strategies - PDHUs

Donald A. Fay: (C.P., Vice President; TRC) Don Fay is the remediation practice group leader and vice president with TRC in Cincinnati, Ohio. He is a geologist with 27 years of experience in environmental consulting and is a Certified Professional for Ohio EPA's Voluntary Action Program (VAP). He has served as C.P. for eight properties that have obtained VAP Covenants Not-to-Sue.

Don specializes in evaluating and managing environmental risks associated with brownfield redevelopment, voluntary and agency-enforced cleanup programs, and business transactions. He has assisted clients with obtaining or implementing more than \$20 million in grant-funded assessment and remediation of brownfields. Don has also served as an expert witness in environmental litigations, including VAP cost recovery actions.

Don received both his bachelor's and master's degrees in geology from Miami University and has continued his education in hydrogeology, risk assessment and business. He is a registered professional geologist in Indiana, Kentucky, and Pennsylvania.

Bernard "Bud" McCormick: (RN, BSN) Bud McCormick is the Chief of Training and Operations at the National Center for Medical Readiness (NCMR) at Wright State University (WSU) in Fairborn, Ohio. Bud was worked at NCMR the last 4 years and was the WSU lead for the remediation/renovation project at Calamityville. He came to the project from CEMEX where he was the plant manager for their cement operations for the previous four years. Bud has 19 years of experience in the cement manufacturing industry and holds a Bachelor of Science degree in Chemical Engineering from the University of Massachusetts (Amherst).

Prior to working with building materials, Bud was an ICU nurse specializing in burns and trauma. He has a Bachelor of Science degree in Nursing from American International College (Springfield, MA).

Deborah A McDonnell: (City Manager, Fairborn Ohio) Ms. McDonnell returned to Ohio in 2007 to accept the position of City Manager with a task of revitalizing the community. She oversees all aspects of operations for a community of 32,000 people and has focused her attention on developing an economic development team and strategy for redeveloping abandoned properties. Debbie spent 10 years working for the Village of Saranac Lake New York where she was involved in a multitude of environmental remediation projects ranging from oil spills, abandoned gas stations, buried dump sites (under roadways), sewage contamination into scenic rivers, road salt water contamination, and a landfill closure. Her role was to secure the partners, funding, and manage the projects. A native Ohioan, Debbie has a BA in business administration from The Ohio State University, and an MBA in creating knowledge based organizations.

Gerald H. Beaudion: (Senior PM; TRC Environmental) Mr. Beaudion's began his environmental career in 1984 working as a NESHAPs compliance officer at the Southwestern Ohio Air Pollution Control Agency. In 1987 he moved to private consulting providing environmental services such as comprehensive asbestos, lead, mold and universal waste inspections, remediation design, project management, safety and regulatory compliance, and business development. He is considered an asbestos expert and has provided opinions during litigation and arbitration proceedings. Mr. Beaudion proudly served in the United States Military with four years of active duty in the Marine Corps and four years active reserve in the Army. Jerry is a certified asbestos inspector/project designer in Ohio and several other states.

ISCR Source Area Remediation using the Emulsified Zero-Valent Iron (EZVI) Technology - PDHUs

Greg Booth: Greg Booth, Ph.D. is the Corporate Director for RemQuest, a supplier of environmental assessment and remediation technologies and products. Dr. Booth is an environmental geochemist with over 20 years of professional experience in basic and applied research and consulting in the fields of groundwater remediation, groundwater remediation technology development, groundwater and soil assessment, freshwater and marine geochemistry, environmental radiochemistry, and aquatic and subsurface remote sensing. Dr. Booth leads RemQuest's research and development efforts, as well as, product manufacturing processes. Dr. Booth has been a leader in the commercialization and manufacturing of Emulsified Zero-Valent Iron (EZVI) since 2005. He is also actively involved in the development of other remediation technologies, such as Activated Metal Treatment System (AMTS) developed by NASA for PCB remediation. Dr. Booth has participated in a wide range of projects and has authored multiple manuscripts for publication in the peer-reviewed scientific literature.