

2008 North American Environmental Field Conference & Exposition

CONFERENCE SCHEDULE

MONDAY, JANUARY 14, 2008

8:00 a.m. – Noon

Opening Remarks

David Nielsen, *Nielsen Environmental Field School, Las Cruces, NM*

Keynote Address

Technology Innovation and Triad – Perfect Together

Norman R. Niedergang, *Director of the Technology Innovation & Field Services Division, Office of Superfund Remediation & Technology Innovation, US Environmental Protection Agency, Washington, DC*

Session I: Advances in Environmental Site Characterization

Comparison of Conventional and Enhanced Site Investigations at a Service Station Site

Gary Robbins, *University of Connecticut, Dept of Natural Resources Management and Engineering, Storrs, CT*; Christine Gadaleta, *SSG-Barco Inc., Monmouth Junction, VT*

Application of Multifaceted High-Resolution Data to Conceptual and Numerical Model Development in an Alluvial Ground-Water Basin

Ken Stelman, *Geomatrix Consultants, Inc., Denver, CO*

Long-Term Monitoring and Assessment at the CIC Superfund Site

Kevin Keller, *HDR Engineering Inc., Kansas City, MO*

Site Assessment Using Laser-Induced Fluorescence (LIF) at Hydrocarbon Contaminated Sites

Jason Kirwin and Joann Dyson, *West Central Environmental Consultants, Morris, MN*

Defining Source Areas for Direct Injection Using a Membrane Interface Probe (MIP)

Aleisa Bloom and George DeLong, *Oak Ridge National Lab, Oak Ridge, TN*; Bob Lyon, Laurie Steinberg, Bert Buell and Scott Pitz, *URS Corp, Baltimore, MD*

Improving Environmental Site Assessments Through the Use of Multiple Lines of Evidence

Dennis Waslenchuk, *Environ International Corp, Hartford, CT*

Noon – 1:00 p.m.

Lunch Break

1:00 p.m. – 5:30 p.m.

Session II: Advances in Data Management and Data Visualization

Empowering Field Analysis With Real-Time Data Management Support

John Sohl and Ned Tillman, *Columbia Technologies LLC, Baltimore, MD*

Automated Environmental Monitoring and Data Visualization

Mark Kram, *Groundswell Technologies Inc., Santa Barbara, CA*; E. Edward Beighley, *San Diego State University Dept of Civil Engineering*; Sanya Sirivithayapakorn, *Kasetsart University Environmental Engineering Dept*; Michael Lamar, *Abbaroo.com*; Hugo Loaiciga, *University of California Santa Barbara Geography Dept*

Visualization of LNAPL Distribution and Recovery Model Results Using Arc GIS

Kendall Wilson, Brett Milburn and Dennis Law, *Langan Engineering and Environmental Services, Doylestown, PA*

The Use of Markup Languages to Organize and Understand Data: A View of the Future – EMS and XML

Richard Hammond, *US Environmental Protection Agency, Region 4, Atlanta, GA*

Session III: Advances in Field Hydraulic Conductivity Measurement

Comparing Slug Tests in Co-Located Direct Push and Conventional Monitoring Wells

Wesley McCall, *Geoprobe Systems, Salina, KS*; Louise Parker and Nathan Mulherin, *US Army Cold Regions Research and Engineering Laboratory, Hanover, NH*

Modeling Assessment of the Direct-Push Permeameter for High-Resolution Characterization of Spatial Variations in Hydraulic Conductivity

Ed Reboulet, Gaisheng Liu, Geoff Bohling and James Butler, Jr., *Kansas Geological Survey, Lawrence, KS*; Peter Dietrich, *UFZ Centre for Environmental Research, Leipzig, Germany*

Evaluation of the Effective Saturated Thickness in Pumping Tests

Willis Weight, *Montana Tech of the University of Montana, Butte, MT*; Robert Schreiber, *CDM, Cambridge, MA*; Keith Halford, *US Geological Survey, Sacramento, CA*

Determining Soil Air Permeability From a One-Well Steady-State Pumping Test

Gary Robbins, *University of Connecticut Dept of Natural Resources Management and Engineering, Storrs, CT*; Bruce Olmstead, *Connecticut Dept of Transportation, Newington, CT*

5:30 p.m. – 7:30 p.m.

WELCOME RECEPTION

(In the Indoor Exhibit Hall)

TUESDAY, JANUARY 15, 2008

8:00 a.m. – Noon

Session IV: Profiling Techniques for Soil, Soil Gas and Ground Water

Modified Active Gas Survey: A Novel Method of Assessment for NAPL Volatiles in Soil

Nicholas Albergo, *HSA Engineers & Scientists, Fort Myers, FL*

Vertical Profiling of BTEX in Ground Water and Soil Gas Using a New Passive Diffusion Sampling Technique

Cynthia Paul, Dominic DiGiulio, John T. Wilson and Ken Jewell, *US Environmental Protection Agency, National Risk Management Research Laboratory, Ada, OK*

Applications of Dynamic Yield and Water Chemistry Profiling to Hydraulic Manipulation of Ground-Water Production and Remediation Wells

Noah Heller, *BESST, Inc., San Rafael, CA*

Simple In-Well Baffles with Snap Samplers for Multilevel Sampling in Traditional Monitoring Wells

Sanford Britt, *ProHydro Inc., Fairport, NY*

Session V: New Tools for Characterization of Geology and Ground Water

A New Direct-Push Tool System for Lithologic and Contaminant Logging

Thomas Christy, *Geoprobe Systems, Salina, KS*

A New Tool for Ground-Water Velocity Measurement and Its Applications

J.F. Devlin, *University of Kansas Department of Geology, Lawrence, KS*

Evaluation of Various Monitoring Well Development Techniques and a New Tool for Use in Small-Diameter Wells

Thomas Kwader, *URS Corp, Tallahassee, FL*

Noon – 1:00 p.m.

Lunch Break

(Lunch Provided in the Indoor Exhibit Hall)

1:00 p.m. – 5:30 p.m.

Session VI: Advances in Sampling and Field Analysis of Soil

The AquaLock Sediment Sampler – Saturated Sediment Sampling with Sonic Technology

Mike Casey, *Sonic Sampling and Supply, Woodacre, CA*

Quantifying DNAPL Compounds in the Subsurface at Contaminated Sites as Affected by Sampling Method Attributes and Environmental Conditions

Ryan Oestereich and Robert Siegrist, *Colorado School of Mines, Environmental Science and Engineering Dept*; Michele Crimi, *Eastern Tennessee State University*

Applications of a Humidity-Resistant PID in Soil Screening for VOCs

Geoff Hewitt, *Ion Science Americas, Waterbury, VT*

Cost-Effective Soil Characterization in the Field Using XRF

Andrew Danzig, *Malcolm Pirnie Inc., Middletown, CT*

Session VII: Advances in Sampling and Field Analysis of Ground Water

Influence of Dissolved Oxygen Convection on Well Sampling

Don Vroblesky, Clifton Casey and Mark Lowery, *US Geological Survey, Columbia, SC*

Variability Introduced by Field Procedure: The Snap Sampler vs. Traditional Purge Sampling

Sanford Britt, *ProHydro Inc., Fairport, NY*

Results From Recent Studies Evaluating the Snap Sampler

Louise Parker and Nathan Mulherin, *US Army Cold Regions Research and Engineering Laboratory, Hanover, NH*

Field Measurement of Turbidity: Clearing Up a Murky Issue

Linda Hoffman, *HSW Engineering, Inc., Tampa, FL*

5:30 p.m. – 7:30 p.m.

SOCIALIZER

(In the Indoor Exhibit Hall)

WEDNESDAY, JANUARY 16, 2008

8:00 a.m. – Noon

Session VIII: Advances in Soil and Ground-Water Remediation

Assessment of Remediation Performance Considering Treatment-Induced Changes in Soil Properties and Contaminant Partitioning Behavior

Leanne Woods and Robert Siegrist, *Colorado School of Mines Dept of Environmental Science and Engineering, Golden, CO*; Michele Crimi, *East Tennessee State University*

Injection of Reactants for In-Situ Remediation – It's All About Delivery

Sam Williams, *Geosyntec Consultants Inc., San Diego, CA*

Field Performance Comparison of Three Oxygen Distribution Technologies

Gerard Spinnler and Cristin Bruce, *Shell Global Solutions US, Houston, TX*; Paul Dahlen, Jennifer Triplett and Paul Johnson, *Arizona State University, Tempe, AZ*

Innovative Technical and Legal Strategies for Achieving Site Closure for an Industrial Facility, Including a CERCLA Site

John Bolakas, *SECOR International Inc., Exton, PA*; Michael Kasnick, *SECOR International Inc., Indianapolis, IN*; Walter Hufford, *Atlantic Richfield Co., Towson, MD*

The ART Technology Success in Treating Petroleum and Chlorinated Compounds, MTBE and 1,4 Dioxane – How Does it Work?

Marco Odah, *Accelerated Remediation Technologies, Inc., Overland Park, KS*

Session IX: Real-Time and Continuous Monitoring in Environmental Media

Sensors: A New Way to Collect Environmental Data for Regulatory Decision Making?

Stuart Nagourney, *New Jersey Dept of Environmental Protection, Office of Quality Assurance, Trenton, NJ*

Using Continuous Monitoring in Coordination with Grab Sampling to Study River Eutrophication as Part of a Dissolved Oxygen TMDL

William Stringfellow, Jeremy Hanlon and Sharon Barglin, *University of the Pacific Environmental Engineering Research Program, Stockton, CA*

Real-Time Monitoring in Blue-Green Algae Contents in Some Land and Sea Areas in Southwestern Finland

Juha Kaaria and Olli Loisa, *Turku University of Applied Sciences, Turku, Finland*

Noon – 12:30 p.m.

CLOSING SESSION AND CONFERENCE ADJOURNMENT

Gillian Nielsen, *Nielsen Environmental Field School, Las Cruces, NM*