

2008 North American Environmental Field Conference and Exposition

ENVIRONMENTAL SAMPLING TRACK

MONDAY, JANUARY 14, 2008

THE CONFERENCE

8:00 a.m. – Noon

KEYNOTE ADDRESS:

Title to be Announced

- *Speaker to be Announced, US Environmental Protection Agency, Washington, DC*

Session I: Advances in Environmental Site Characterization Technology

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

- *Gary Robbins, University of Connecticut, Department 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., Oakland, CA*

Break

Aquifer Characterization Data Collection in Support of Ground-Water Modeling Activities at the Former Naval Ammunition Depot in Hastings, Nebraska

- *Kevin Keller, Shaw Environmental and Infrastructure Inc., Overland Park, KS*

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*

INDOOR WORKSHOPS

8:30 a.m. – Noon

Best Management Practices for Efficient Sampling Program Design (Part 1 of an 8-Hour Workshop)

- *Deana Crumbling, US Environmental Protection Agency, Washington, DC*

Noon – 1:00 p.m.

LUNCH BREAK

1:00 p.m. – 7:30 p.m.

EXPOSITION OPEN (Indoor Exhibit Hall and Outdoor Exhibit Area)

INDOOR WORKSHOPS

1:00 p.m. – 5:30 p.m.

2 Concurrent Workshops

Best Management Practices for Efficient Sampling Program Design (Part 2 of an 8-Hour Workshop)

- *Deana Crumbling, US Environmental Protection Agency, Washington, DC*

Passive Sampling: An Effective, Cost-Saving Approach to Long-Term Ground-Water Monitoring

- *Sanford Britt, ProHydro Inc., Fairport, NY (Session Moderator)*

Speakers and Panelists Include:

- *Don Vroblesky, US Geological Survey, Columbia, SC*
- *Kent Cordry, GeolInsight, Inc., Las Cruces, NM*
- *Louise Parker, US Army CRREL; Hanover, NH*
- *Raymond Fransen, Missouri Dept of Natural Resources, Columbia, MO*
- *Kim Ward, New Jersey Dept of Environmental Protection, Trenton, NJ*
- *George Nicholas, New Jersey Dept of Environmental Protection, Trenton, NJ*
- *Brad Varhol, EON Products, Stone Mountain, GA*
- *Tom Imbrigiotta, US Geological Survey, Trenton, NJ*
- *Dee O'Neill, Columbia Analytical Services*
- *Jay Hodny, WL Gore*
- *Brian Bjorklund, ERM Inc.*
- *Bruce Robinson, Gila River Community DEQ*
- *Glenn Palmer, Arcadis US*

1:00 p.m. – 3:00 p.m.

Ground-Water Purging and Sampling Methods: Passive to Aggressive
- *David Kaminski, QED Environmental Systems Inc., Clayton, CA*

5:30 p.m. – 7:30 p.m.

WELCOME RECEPTION (In the Indoor Exhibit Hall)

TUESDAY, JANUARY 15, 2008

THE CONFERENCE

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*

BREAK

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*

INDOOR WORKSHOPS

8:00 a.m. – Noon

Advanced Design Application and Data Analysis for FP-XRF in Soil Matrices (Part 1 of an 8-Hour Workshop)

- *Deana Crumbling, US Environmental Protection Agency, Washington, DC; Speaker to be Announced, New Jersey Dept of Environmental Protection, Trenton, NJ*

OUTDOOR WORKSHOPS AND EQUIPMENT DEMONSTRATIONS

Field Site 1

9:00 a.m. – 10:00 a.m.

Taking the Obstacles Out of Remote Water-Level Monitoring

- *Tricia Lane, Solinst Canada Ltd, Georgetown, ON*

Field Site 2

10:00 a.m. – 11:00 a.m.

Using the HydraSleeve: How to Collect Ground-Water Samples for All Contaminants Without Purging

- *Kent Cordry, GeolInsight, Inc., Las Cruces, NM*

11:00 am. – Noon

Twelve-Volt DC Pumping Technologies

- *Jassen Savoie, Geotech Environmental Equipment Inc., Denver, CO*

Field Site 3

9:00 a.m. – 10:00 a.m.

Integrating Cost-Effective DP Water-Quality Sampling and K-Testing

- *Wesley McCall, Geoprobe Systems, Salina, KS*

10:00 a.m. – Noon

Compact Sonic Drilling Techniques Workshop

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

Noon – 1:00 p.m.

LUNCH BREAK – LUNCH PROVIDED IN THE INDOOR EXHIBIT HALL

Noon – 7:30 p.m.

EXPOSITION OPEN (Indoor Exhibit Hall and Outdoor Exhibit Area)

THE CONFERENCE

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 Department; 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*

BREAK

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 Mulhern, 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*

INDOOR WORKSHOPS

1:00 p.m. – 5:30 p.m.

Two Concurrent Workshops

Advanced Design Application and Data Analysis for FP-XRF in Soil Matrices (Part 2 of an 8-Hour Workshop)

- *Deana Crumbling, US Environmental Protection Agency, Washington, DC; Speaker to be Announced, New Jersey Dept of Environmental Protection, Trenton, NJ*

OUTDOOR WORKSHOPS AND EQUIPMENT DEMONSTRATIONS

Field Site 1

2:00 p.m. – 3:00 p.m.

Low-Flow Sampling Made Easy: The Micropurge Sampling System

- *David Kaminski, QED Environmental Systems Inc., Clayton, CA*

Field Site 2

1:00 p.m. – 2:00 p.m.

Improving Data Acquisition and Making Sense of Your Field Data – The Latest Innovation in Ground-Water Monitoring Networks

- *Peter Westerhuis, Van Essen Instruments; Eric Coulombe, Schlumberger Water Services, Waterloo, ON*

3:00 p.m. – 4:00 p.m.

Installation and Operation of Real-Time Environmental Monitoring Systems

- *Gregg Gustafson, Instrumentation Northwest, Kirkland, WA*

4:00 p.m. – 5:00 p.m.

Quick-to-Deploy Sensor Mesh Networks With Retriever

- *Dave Fischer, QED Environmental Systems, Ann Arbor, MI*

Field Site 3

1:00 p.m. – 2:00 p.m.

Advances in Direct-Push Tooling

- *Thomas Dalzell, AMS, American Falls, ID; Ulf Elmgren, Envi*

2:00 p.m. – 3:00 p.m.

Application of Hand-Held XRF Technology to Measurement of Metals in Soil

- *John Nikitas, Innov-X Systems, Oak Ridge, TN*

3:00 p.m. – 4:00 p.m.

High-Capacity Direct-Push Machines and Tools Provide New Opportunities for Site Investigations

- *Lee Shaw, Geoprobe Systems, Salina, KS*

4:00 p.m. – 5:00 p.m.

Using CPT and HPT for Environmental Site Investigation

- *Doug Koehler, Geoprobe Systems, Salina, KS*

5:30 p.m. – 7:30 p.m.

SOCIALIZER (In the Indoor Exhibit Hall)

WEDNESDAY, JANUARY 16, 2008

8:00 a.m. – Noon

EXPOSITION OPEN (Indoor Exhibit Hall and Outdoor Exhibit Area)

OUTDOOR WORKSHOPS AND EQUIPMENT DEMONSTRATIONS

Field Site 1

9:00 a.m. – 11:00 a.m.

Low-Flow Ground-Water Sampling – Digital Field and Data Management Practices

- *David Wardwell, In-Situ Inc., Fort Collins, CO*

Field Site 2

9:00 a.m. – 10:00 a.m.

Using a Flow Cell and Submersible Pump for Ground-Water Sampling Studies

- *Jassen Savoie, Geotech Environmental Equipment, Denver, CO; Laura St. Pierre, YSI, Yellow Springs, OH*

10:00 a.m. – 11:00 a.m.

Passive Sampling: An Effective, Cost-Saving Approach to Long-Term Ground-Water Monitoring

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

11:00 a.m. – Noon

Low-Flow Sampling with Optical Dissolved Oxygen Technology

- *Jassen Savoie, Geotech Environmental Equipment, Denver, CO; Laura St. Pierre, YSI, Yellow Springs, OH*

Field Site 3

9:00 a.m. – 10:00 a.m.

Compact Sonic in Action

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

10:00 a.m. – Noon

Advanced Techniques in Field Screening of Soils Using Hand-Held XRF

- *John Pesce, Niton Analyzers, Billerica, MA*

THE CONFERENCE

10:00 a.m. – Noon

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*

Investigation of the Origin and Consequences of Caspian Sea Pollution

- *S. Amaneh Sajjadi, Azad University Department of Meteorology, Rasht, Iran*

Noon – 12:30 p.m.

CLOSING SESSION AND CONFERENCE ADJOURNMENT