

2008 North American Environmental Field Conference and Exposition

FORMATION HYDRAULIC TESTING 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*

Noon – 1:00 p.m.

LUNCH BREAK

1:00 p.m. – 7:30 p.m.

EXPOSITION OPEN (Indoor Exhibit Hall and Outdoor Exhibit Area)

THE CONFERENCE

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 Department of Civil Engineering; Sanya Sirivithayapakorn, Kasetsart University Environmental Engineering Department; Michael Lamar, Abbaroo.com; Hugo Loaiciga, University of California Santa Barbara Geography Department*

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*

BREAK

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

- *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 Department of Natural Resources Management and Engineering, Storrs, CT; Bruce Olmstead, Connecticut Department of Transportation, Newington, CT*

5:30 p.m. – 7:30 p.m.

WELCOME RECEPTION (In the Indoor Exhibit Hall)

TUESDAY, JANUARY 15, 2008

INDOOR WORKSHOPS

8:00 a.m. – 10:00 a.m.

Barometric Effects on Ground-Water Level Data

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

10:00 a.m. – Noon

Direct-Push Logging and Methods for Measurement of Permeability

- *Wesley McCall and Steve Knobbe, Geoprobe Systems, Salina, KS*

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*

10:00 a.m. – Noon

Slug Testing Field Techniques

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

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*

OUTDOOR WORKSHOPS AND EQUIPMENT DEMONSTRATIONS

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*

2:00 p.m. – 3:00 p.m.

Performing Pumping Tests with YSI Level Scout

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

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

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)

INDOOR WORKSHOPS

8:00 a.m. – 9:00 a.m.

Advanced Methods of Direct Push Drilling Technology for Environmental Remediation and Geotechnical Site Investigations/Activities

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

9:00 a.m. – 10:00 a.m.

Mass Flux Distribution Using the High-Resolution Piezocone and GMS and Innovative Cost-Effective Ground-Water Monitoring Well Design

- *Mark Kram, US Navy, Port Hueneme, CA; Norm Jones, Brigham Young University; Jessica Chau, Gary Robbins and Amvrossios Bagtzoglou, University of Connecticut; Jeff Farrar, US Bureau of Reclamation; Tom Dalzell, AMS*

10:00 a.m. – Noon

Wireless Telemetry Made Easy

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

Noon – 12:30 p.m.

CLOSING SESSION AND CONFERENCE ADJOURNMENT