

2008 North American Environmental Field Conference & Exposition

THE FULL EVENT SCHEDULE

MONDAY, JANUARY 14, 2008

8:00 a.m. – Noon

THE CONFERENCE

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 & Monitoring

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*

INDOOR WORKSHOPS

(Attendance at All Workshops is Included in Your Conference Registration Fee)

8:30 a.m. – Noon

Two Concurrent Workshops

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

Deana Crumbling, US Environmental Protection Agency, Washington, DC; Robert Johnson, Argonne National Laboratory, Argonne, IL

Introduction to Surfactant Remediation Technology

George Ivey, Ivey International Inc.

Noon – 1:00 p.m.

Lunch Break

1:00 p.m. – 7:30 p.m.

EXPOSITION OPEN

Indoor Exhibit Hall & Outdoor Exhibit Area

(See Exhibitors List for Companies Participating in the Exposition)

1:00 p.m. – 5:30 p.m.

THE CONFERENCE

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, *CT Dept of Transportation, Newington, CT*

INDOOR WORKSHOPS

1:00 p.m. – 5:30 p.m.

Three 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*; Robert Johnson, *Argonne National Laboratory, Argonne, IL*

Anaerobic Attenuation of Petroleum Hydrocarbons in the Subsurface: Characterization and Enhancement of Natural Processes

Lyle Bruce and Arati Kolhatkar, *BP Remediation Management, Warrenville, IL*

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, *GeoInsight, Inc., Las Cruces, NM*

Louise Parker, *US Army CRREL; Hanover, NH*

Raymond Franson, *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*

Mark Wilson, *Columbia Analytical Services, Rochester, NY*

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*

3:00 p.m. – 5:30 p.m.

Applications of Field Data in Ground-Water Contamination, Risk Assessment, Remediation and Wellhead Protection

Robert Cleary, *Princeton Groundwater, Tampa, FL*

5:30 p.m. – 7:30 p.m.

WELCOME RECEPTION

(In the Indoor Exhibit Hall)

TUESDAY, JANUARY 15, 2008

8:00 a.m. – Noon

THE CONFERENCE

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*

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 and Stephen Dymont, *US Environmental Protection Agency, Washington, DC*; Robert Johnson, *Argonne National Laboratory, Argonne, IL*; Dennis Kalnicky, *Lockheed Martin Information Systems & Global Services, Edison, NJ*

8:00 a.m. – 10:00 a.m.

Two Concurrent Workshops

Detection and Control of Indoor Vapors

Duane Winegardner and Chris Schaefer, *Cardinal Engineers, Norman, OK*

Barometric Effects on Ground-Water Level Data

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

10:00 a.m. – Noon

Two Concurrent Workshops

What's Eating Your Pump? Choosing the Right Pump for Remediation and Landfill Applications

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

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.

Getting the Most Out of Your On-Site Mobile Lab

Kelly Bergdoll, *KB Analytical Labs, Jacksonville, FL*

10:00 a.m. – Noon

Slug Testing Field Techniques

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

Field Site 2

9:00 a.m. – 10:00 a.m.

Advancements in Vane Shear Testing, Geotechnical & Environmental – MemoVane III

Kjell Elmgren, *Envi, Alingsas, Sweden*; Thomas Dalzell and Ken Lipscomb, *AMS, American Falls, ID*

10:00 a.m. – 11:00 a.m.

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

Kent Cordry, *GeoInsight, 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)

1:00 p.m. – 5:30 p.m.

THE CONFERENCE

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*

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 and Stephen Dymant, *US Environmental Protection Agency, Washington, DC*; Robert Johnson, *Argonne National Laboratory, Argonne, IL*; Dennis Kalnicky, *Lockheed Martin Information Systems & Global Services, Edison, NJ*

Practical Karst Hydrogeology With Emphasis on Ground-Water Monitoring

Ralph Ewers and Peter Idstein, *Ewers Water Consultants, Richmond, KY*

1:00 p.m. – 3:00 p.m.

Deep Ground-Water Deployment Techniques for Oxygen Release Agents

Jim Mueller, *Adventus Americas Inc*; Mitch Brouman, *Beazer East Inc.*

3:00 p.m. – 5:30 p.m.

Introduction to Extensible Markup Languages and Their Use in Environmental Restoration Projects

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

OUTDOOR WORKSHOPS AND EQUIPMENT DEMONSTRATIONS

Field Site 1

1:00 p.m. – 2:00 p.m.

Demonstration of a Truck-Mounted Dual-Phase Extraction Remediation System

Mark Steiner, *Chemviron Midwest, Inc., Wooster, OH*

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*

3:00 p.m. – 5:00 p.m.

Dual-Phase Extraction: Remedial Technology and Pilot Testing Workshop

Mark Steiner, *Chemviron Midwest Inc., Wooster, OH*

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, Delft, Netherlands*; 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

1:00 p.m. – 2:00 p.m.

Advances in Direct-Push Tooling

Thomas Dalzell and Ken Lipscomb, *AMS, American Falls, ID*; Kjell Elmgren, *Envi, Alingsas, Sweden*

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)

8:00 a.m. – Noon

THE CONFERENCE

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

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

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*

INDOOR WORKSHOPS

8:00 a.m. – 10:00 a.m.

Taking the Obstacles Out of Remote Water-Level Monitoring

Kirsten Cooper, *Solinst Canada Ltd.*

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*; Kjell Elmgren, *Envi, Alingsas, Sweden*

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*; Thomas Dalzell, *AMS*

10:00 a.m. – Noon

Two Concurrent Sessions

Direct-Push Site Characterization of NAPL with Laser-Induced Fluorescence

Randy St. Germain and Travis Martin, *Dakota Technologies Inc., Fargo, ND*

Wireless Telemetry Made Easy

Gregg Gustafson, *Instrumentation Northwest, Kirkland, WA*

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*

11:00 a.m. – Noon

A New Surge-Block Well Development Tool

Thomas Kwader, *URS Corp., Tallahassee, FL*

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*

Noon – 12:30 p.m.

CLOSING SESSION AND CONFERENCE ADJOURNMENT

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

Be Sure to Visit the Exposition!

Companies represented (at press time) include:

AMS, Inc.
Accelerated Remediation Technologies, Inc.
Chemviron Midwest, Inc.
Dakota Technologies, Inc.
Desxil Corporation
EON Products Inc.
Environmental Probing & Drilling, LLC
Flexible Liner Underground Technologies (FLUTE)
Geolnsight, Inc.
Geoprobe Systems
Geotech Environmental Equipment
Groundwater Protection/Precision Technologies
Innov-X Systems
In-Situ, Inc.
Instrumentation Northwest
Ion Science Americas LLC
KB Analytical Labs
Princeton Groundwater
ProHydro, Inc.
QED Environmental Systems, Inc.
Rite-in-the-Rain
Schlumberger Water Systems, Inc.
Solinst Canada Ltd.
Sonic Sampling & Supply LLC
Taylor & Francis Publishers
Thermo Scientific/Niton Analyzers
US Environmental, Inc.
US Environmental Protection Agency
Waterloo Hydrogeologic
Westbay Instruments
YSI, Inc.