# 2010 North American Environmental Field Conference & Exposition January 12 – 15, 2010 Embassy Suites Hotel USF, Tampa, Florida

# **FULL EVENT SCHEDULE**

Tuesday, January 12, 2010	Program Key
	Conference Platform Papers
8:00 a.m. – 10:00 a.m.  Conference Platform Papers	Indoor Workshops
Conference Hall - Salons F & G SESSION I: KEYNOTE SESSION	Outdoor Workshops & Demos

## Session Moderator:

David M. Nielsen, The Nielsen Environmental Field School, Las Cruces, NM

- Cross-Cutting Opportunities for the Clean-up Enthusiast
  - Arnold E. Layne, Director, Technology Innovation & Field Services Division, Office of Superfund Remediation & Technology Innovation, U.S. Environmental Protection Agency, Washington, DC
- The Disconnect Between Monitoring and Models
  - Graham E. Fogg, University of California-Davis, Department of Land, Air & Water Resources, Davis, CA
- High-Resolution, Real-Time Methods for the Determination of Hydrostratigraphy and Contamination Distribution
  - Seth Pitkin, Stone Environmental Inc., Montpelier, VT
- Overview of the Discrete Fracture Network (DFN) Approach for Investigating Contaminated Sites in Fractured Sedimentary Rock
  - Beth L. Parker, University of Guelph, School of Engineering, Guelph Ontario

10:00 a.m. - 10:15 a.m. Refreshment Break

10:15 a.m. – 12:15 p.m.

**Conference Platform Papers** 

Conference Hall - Salons F & G

Session II – High-Resolution Approaches to Site Characterization

Session Moderator: Sam Williams, Geosyntec Consultants Inc., San Diego, CA

- FLUTe Flexible Liner Applications for Investigation of a Large-Diameter Municipal Well in Fractured Dolostone
  - Karl Belan, Beth L. Parker and Jonathan Kennel, University of Guelph, School of Engineering, Guelph, ON; John Cherry, University of Waterloo, Department of Earth Sciences, Waterloo, ON



- Determination of Trichloroethylene in Rock Samples Using Microwave-Assisted Extraction and Cool On-Column Injection
  - Tadeusz Gorecki and Yongdong Liu, University of Waterloo, Department of Chemistry, Waterloo, ON; Beth L. Parker and Maria Gorecka, University of Guelph, School of Engineering, Guelph, ON
- Fracture Identification by Measuring Heat Dissipation in Lined Holes
  - Peter Pehme, University of Waterloo, Department of Earth Sciences and Waterloo Geophysics, Inc., Waterloo, ON; Beth L. Parker, University of Guelph, School of Engineering, Guelph, ON; John Cherry, University of Waterloo, Department of Earth Sciences, Waterloo, ON
- Hydraulic Packer Tests in Fractured Rock Relevant to Contaminant Transport Analysis
  - Patryk Quinn and John Cherry, University of Waterloo, Department of Earth Sciences, Waterloo, ON; Beth L. Parker, University of Guelph, School of Engineering, Guelph, ON

10:15 a.m. – 12:15 p.m. **Indoor Workshops** 

Breakout Rooms - Second Floor

# Magnolia Room

- Dissolved Oxygen Sensing Technologies
  - Laura St. Pierre, YSI Inc., Yellow Springs, OH

## Citrus Room

- > Improving Data Quality of Field Headspace Measurements Utilizing PIDs
  - Geoff Hewitt and Bob Wheelhouse, Ion Science Americas LLC, Waterbury, VT

## Palm Room

- > Demonstration of Method Applicability and Quality Control for XRF in Soil Matrices
  - Stephen Dyment, US Environmental Protection Agency, Washington, DC

## Cypress Room

- Wireless Site Monitoring
  - Gregg Gustafson, Instrumentation Northwest Inc., Kirkland, WA; Mark Kram, Groundswell Technologies, Inc., Santa Barbara, CA

12:15 P.M. – 1:15 P.M. Lunch Break

1:15 p.m. – 3:15 p.m.

**Conference Platform Papers** 

Conference Hall - Salons F & G

Session III – High-Resolution Approaches to Site Characterization



Session Moderator: Gary Robbins, University of Connecticut, Dept of Natural Resources and the Environment, Storrs, CT

- ➤ The Use of Electrical Resistivity and Induced Polarization Surface Geophysics as a Non-Invasive High-Resolution Characterization Tool for Environmental Site Evaluation and Remediation
  - Boyce L. Clarke, *Arcadis, Baton Rouge, LA;* Jim Cloonan, *Arcadis, Greenville, SC*
- Results From the Use of a Heated Trunkline to Enhance Performance of the Membrane Interface Probe (MIP)
  - Thomas M. Christy and Dan Pipp, Geoprobe Systems, Salina, KS
- > Development of Mathematical Models for the Characterization of the MIP System
  - Jan Bumberger and Peter Dietrich, Helmholtz Centre for Environmental Research (UFZ), Leipzig, Germany
- Direct Sampling Ion Trap Mass Spectrometer (DSITMS) and Dynamic Site Investigations; Utilizing Real-Time and High-Resolution Sampling Methods
  - Eric R. Killenbeck, Arcadis, Newton, PA; Nick R.H. Welty, Arcadis, Novi, MI;
     J. Linton, Arcadis, Tampa, FL; J.A. Quinnan, Arcadis, Brighton, MI

3:15 p.m. – 3:30 p.m. Refreshment Break

3:30 p.m. – 5:30 p.m.

# **Conference Platform Papers**

Conference Hall - Salons F & G

Session IV – High-Resolution Approaches to Site Characterization

Session Moderator: J. F. Devlin, University of Kansas, Dept of Geology, Lawrence, KS

- Triad Approach Using the Membrane Interface Probe to Characterize a Chlorinated Solvent Plume
  - Ross Trube, Maria D.S. Watt and Jessica R. Beattie, CDM Inc., Edison, NJ;
     Brad Carlson, Zebra Environmental, Tampa, FL
- Assessment of In-Situ Biodegradation Potential of Hydrocarbons and Fuel Oxygenates Using <sup>13</sup>C-Labeled Amendments and Bio-Sep Beads
  - Kerry Sublette, University of Tulsa, Dept of Chemical Engineering, Tulsa, OK
- ➤ The Use of Solid-Phase Microextraction and Various Gas Chromatography Systems for Providing Versatile and Efficient On-Site VOC Analytical Programs
  - Michael Rossi and Dave Crosby, Stone Environmental Inc., Montpelier, VT



- Stratigraphic Interpretation of High-Resolution Methods
  - Nick R.H. Welty, Arcadis, Novi, MI; Eric R. Killenbeck, Arcadis, Newton, PA;
     J.A. Quinnan, Arcadis, Brighton, MI

1:15 p.m. – 5:30 p.m.

# **Indoor Workshops**

Breakout Rooms - Second Floor

(Refreshment Break from 3:15 p.m. – 3:30 p.m. in the Exhibit Hall)

# Magnolia Room

- Anaerobic Attenuation of Petroleum Hydrocarbons in the Subsurface: Characterization and Enhancement of Natural Processes
  - Lyle G. Bruce, BP Remediation Management (Retired)

## Citrus Room

- Soil Vapor Sampling for Vapor Intrusion Investigations
  - Blayne Hartman, Hartman Environmental Geoscience Inc., Solana Beach, CA

## Palm Room

- Effective DNAPL Site Characterization
  - William M. Davis, *Triad Environmental Solutions Inc., Decatur, GA*; Joe Rossabi, *Redox Tech, Cary, NC*

# Cypress Room

- Proper Drilling and Grouting Practices for a Variety of Geologic Environments
  - Dennis Duty, Jim Mabrey and Mark Whittle, Baroid Industrial Drilling Products

1:15 p.m. – 4:45 p.m.

**Outdoor Workshops & Equipment Demos** 

Outdoor Field Area

1:15 p.m. – 2:15 p.m.

Field Site #1

- > 12-Volt DC Pumping Technologies Workshop
  - Jassen Savoie, Geotech Environmental Equipment, Denver, CO

2:30 p.m. – 3:30 p.m.

Field Site #2

- Instant Metal Mapping with Field-Portable GPS-XRF
  - Ken Smith, Innov-X Systems, Inc., Woburn, MA

3:45 p.m. – 4:45 p.m.

Field Site #1

- > Dual-Phase Extraction with the HVT 1200 Truck-Mounted Remediation System
  - Mark Steiner, Chemviron Midwest, Inc., Wooster, OH



5:30 p.m. – 7:30 p.m.

Complimentary Welcome Reception in the Exhibit Hall

Co-sponsored by Schlumberger Water Services and Nielsen Environmental Field School

# Wednesday, January 13, 2010

8:00 a.m. – 10:00 a.m.

# **Conference Platform Papers**

Conference Hall - Salons F & G

Session V - LNAPL and DNAPL Site Characterization

Session Moderator: Willis Weight, Carroll College, Dept of Mathematics, Engineering & Computer Science, Helena, MT

- Why Are DNAPL Sites So Hard to Characterize?
  - William M. Davis, Triad Environmental Solutions, Inc., Decatur, GA
- Application of an In-Well Tracer Technique for Direct Measurement of LNAPL Flux
  - Craig Divine, Jonathan Smith, Brad Koons, Bruce Rust, and Terri Rubio, Arcadis, Highlands Ranch, CO; Tom Sale, Colorado State University; Paul J. Kurzanski, CSX Transportation Inc.
- Multi-Component NAPL Investigation of MGP Waste with Focus on TarVOST Technology
  - Terry Griffin, Cardno TBE, Clearwater, FL; Randy St. Germain, Dakota Technologies, Fargo, ND
- Evaluation of Downgradient Response to Source Treatment at a Site with Complex Lithology and a Mixed DNAPL Source Zone
  - Adam Gilmore, Steven Chapman and Beth L. Parker, *University of Guelph, School of Engineering, Guelph, ON*

10:00 a.m. - 10:15 a.m. Refreshment Break

10:15 a.m. – 12:15 p.m.

## **Conference Platform Papers**

Conference Hall - Salons F & G

Session VI – High-Resolution Approaches to Monitoring

- ➤ Karst Problems and Flexible Liner Experience
  - Carl Keller, Flexible Liner Underground Technologies (FLUTe), Santa Fe, NM



- Monitoring Back Diffusion Effects from Clayey Interbeds in a Sandy Aquifer Following Source Cutoff
  - Stephen Chapman, Beth L. Parker and Kristina Small, University of Guelph, School of Engineering, Guelph, ON; Seth Pitkin, Stone Environmental Inc., Montpelier, VT
- Evaluation of Nitrate Sensors for Ground-Water Remediation Monitoring
  - Stuart J. Nagourney, New Jersey Department of Environmental Protection, Trenton, NJ; Michael Brody, US Environmental Protection Agency, Washington, DC; Amy Dindal, Battelle ETV Advanced Monitoring Systems Center
- Automated Environmental Monitoring and Visualization for Optimized Ground-Water Management
  - Mark Kram, Groundswell Technologies Inc., Santa Barbara, CA; Ed Beighley, San Diego State University, San Diego, CA; Hugo Loaiciga, University of California – Santa Barbara, Santa Barbara, CA

8:00 a.m. - 12:15 p.m.

# **Indoor Workshops**

Breakout Rooms - Second Floor

(Refreshment Break from 10:00 a.m. – 10:15 a.m. in the Exhibit Hall)

## Magnolia Room

- Incremental and Stratified Sampling Designs for Surface Soil Analyses \*
  - Deana M. Crumbling, US Environmental Protection Agency, Washington, DC; Robert Johnson, Argonne National Laboratory, Environmental Science Division, Argonne, IL
  - \* This is Part 1 of an 8-hour workshop it will continue from 1:15 p.m. 5:30 p.m.

## Citrus Room

- Practical Guidelines for Vapor Intrusion Studies
  - Atul M. Salhotra, RAM Group, Houston, TX

### Palm Room

Developing Site Conceptual Models to Support Informed Ground-Water Remediation Decisions

Part 1: Does the SCM at Your Petroleum-Impacted Site Make Sense (8:00 a.m. – 10:00 a.m.)

Part 2: Evaluating Physical and Biological Treatment Options for Hydrocarbon-Impacted Sites (10:15 a.m. – 12:15 p.m.)

Gaylen R. Brubaker, AECOM Environment, \_\_\_\_ NC

# Cypress Room

- Applied Karst Hydrogeology, With Emphasis on Dye Tracing and Ground-Water Monitoring
  - Ralph O. Ewers and Peter J. Idstein, Ewers Water Consultants, Richmond, KY



8:45 a.m. – 12:15 p.m.

# **Outdoor Workshops & Equipment Demos**

Outdoor Field Area

8:45 a.m. – 9:45 a.m.

Field Site #2

- Compact Rotosonic Drilling Techniques Workshop
  - Mike Casey, Sonic Sampling and Supply, Woodacre, CA

8:45 a.m. - 9:45 a.m.

Field Site #1

- Practical Field Use of the HydraSleeve for No-Purge Ground-Water Sampling
  - Kent Cordry, Geolnsight, Inc., Las Cruces, NM

10:00 a.m. – 11:00 a.m.

Field Site #2

- ➤ High-Performance Closed-Beam 50kV/10W Field-Portable XRF for Site Characterization
  - Jose Brum, Innov-X Systems, Inc., Woburn, MA

10:00 a.m. – 11:00 a.m.

Field Site #1

- Pumping Test With a Pressure Transducer
  - Jassen Savoie, Geotech Environmental Equipment, Denver, CO

11:15 a.m. – 12:15 p.m.

Field Site #2

Open

11:15 a.m. – 12:15 p.m.

Field Site #1

- > Field Deployment & Recovery of Passive (No-Purge) Ground-Water Samplers
  - Bradley Varhol, EON Products Inc., Snellville, GA

12:15 p.m. – 1:15 p.m.

Complimentary Luncheon in the Exhibit Hall

Sponsored by The Nielsen Environmental Field School

1:15 p.m. – 3:15 p.m.

**Conference Platform Papers** 

Conference Hall - Salons F & G

Session VII – Characterization of Ground-Water Systems



- Application of Land-Based and Low Altitude Infrared Thermography to Identify Ground-Water Discharge to Streams and to Guide Geochemical Sampling
  - Brewster Conant, Jr. and N.J. Mochnacz, University of Waterloo, Department of Earth Sciences, Waterloo, ON
- Point Velocity Probes (PVPs) From the Drawing Board to the Field
  - J.F. Devlin, University of Kansas Department of Geology, Lawrence, KS
- Circumventing Sand-Packed Drainage Complications in Determining Hydraulic Conductivity from Monitoring Wells with Partially Submerged Screens
  - Gary Robbins and Alejandra T. Aragon-Jose, University of Connecticut, Department of Natural Resources and the Environment, Storrs, CT
- Development of a Hydraulic Conductivity Estimate for the Hydraulic Profiling Tool (HPT)
  - Wes McCall and Thomas M. Christy, Geoprobe Systems, Salina, KS

3:15 p.m. – 3:30 p.m. Refreshment Break

3:30 p.m. – 5:30 p.m.

**Conference Platform Papers** 

Conference Hall - Salons F & G

Session VIII - Characterization & Sampling of Ground-Water Systems

- Evaluating the Hydraulic Properties of Shallow First-Order Alluvial Systems and the Aquifer Diurnal Water-Level Fluctuations at Different Vegetation Sites in Hag Creek, Whitetail Basin, Southwestern Montana
  - Willis Weight, Carroll College, Department of Mathematics, Engineering & Computer Science, Helena, MT; Kevin Chandler, Absorake, MT; Clayton Marlowe, Montana State University, Department of Animal and Range Sciences
- Ground-Water Discharge From Riparian Zones and Preferential Pathways: Implications for Buffer-Strip Widths to Protect Surface Water
  - Mark K. Waldick, Brewster Conant Jr., and David L Rudolph, University of Waterloo, Department of Earth Sciences, Waterloo, ON
- Ground-Water Tracing: Innovative Uses for Environmental Site Characterization
  - Shiloh Kirkland and Tom Aley, Ozark Underground Laboratory, Protem, MO
- Results from a Recent Field Demonstration at the Former McClellan AFB, Comparing the Snap Sampler, Dialysis Sampler and Low-Flow Purging and Sampling
  - Louise V. Parker, U.S. Army Corps of Engineers CRREL, Hanover, NH



1:15 p.m. – 5:30 p.m.

# **Indoor Workshops**

Breakout Rooms - Second Floor

(Refreshment Break from 3:15 p.m. – 3:30 p.m. in the Exhibit Hall)

1:15 p.m. – 5:30 p.m.

## Magnolia Room

- Incremental and Stratified Sampling Designs for Surface Soil Analyses \*
  - Deana M. Crumbling, US Environmental Protection Agency, Washington, DC; Robert Johnson, Argonne National Laboratory, Environmental Science Division, Argonne, IL
  - \* This is Part 2 of an 8-hour workshop

1:15 p.m. – 2:15 p.m.

## Citrus Room

- Direct-Push Drilling Technology for Environmental and Remedial Investigations
  - Thomas D. Dalzell, AMS, Inc., American Falls, ID; Per Lundgren, Envi, Alingsas, Sweden

2:15 p.m. – 3:15 p.m.

## Citrus Room

- Environmental and Geotechnical Sampling and Testing Procedures With Hand-Operated Equipment
  - Thomas D. Dalzell and Hari Anestos, AMS, Inc., American Falls, ID

1:15 p.m. – 3:15 p.m.

# Palm Room

Developing Site Conceptual Models to Support Informed Ground-Water Remediation Decisions

Part 3: SCM and Remediation Strategy Development at Chlorinated Solvent Sites

Nanjun Shetty, AECOM Environment, \_\_\_\_ NC

1:15 p.m. – 2:15 p.m.

## Cypress Room

- Introduction to Passive/No-Purge Ground-Water Sampling
  - Bradley Varhol, EON Products, Inc., Snellville, GA

2:15 p.m. – 3:15 p.m.

## Cypress Room

- Practical Field Applications of the Hydrasleeve for No-Purge Ground-Water Sampling
  - Kent Cordry, Geolnsight Inc, Las Cruces, NM

3:30 p.m. – 4:30 p.m.

## Citrus Room

- Introduction to Numerical Interpretation of Cone Penetration Tests (CPTu)
  - Wojciech Janecki, Geosoft sp. z.o.o., Wrocław, Poland



4:30 p.m. – 5:30 p.m.

### Citrus Room

- Application of Databases in Geotechnical and Geo-Environmental Engineering
  - Wojciech Janecki, Geosoft sp. z.o.o., Wroclaw, Poland

3:30 p.m. – 5:30 p.m.

### Palm Room

- Performing Rapid Toxicity Assessments (RTAs) with Freshwater, Marine & Sediment Samples
  - Bryan Bjorndahl, Assure Controls, Inc., Vista, CA

3:30 p.m. – 5:30 p.m.

## Cypress Room

- Quality Control for Field Activities
  - Linda Hoffman, HSW Engineering Inc., Tampa, FL

1:15 p.m. – 5:30 p.m.

# **Outdoor Workshops & Equipment Demos**

Outdoor Field Area

1:15 p.m. – 3:15 p.m.

## Field Site #2

- ➤ High-Resolution Real-Time Subsurface Investigation Methods
  - Seth Pitkin and Michael Rossi, Stone Environmental, Inc., Montpelier, VT

1:15 p.m. – 2:15 p.m.

# Field Site #1

- ➤ Low-Flow Ground-Water Sampling with Multi-Parameter Instrumentation & Flow Cells
  - Jassen Savoie, Geotech Environmental Equipment, Denver, CO; and Laura St. Pierre, YSI, Inc., Yellow Springs, OH

2:30 p.m. – 3:30 p.m.

## Field Site #1

- ➤ No-Purge Sampling with the Snap Sampler
  - Sandy Britt, ProHydro Inc., Fairport, NY

3:30 p.m. – 4:30 p.m.

# Field Site #2

- ➤ Handheld Field-Portable XRF for Cost-Effective Environmental Site Characterization Project Management
  - Kim Russell, Innov-X Systems, Inc., Woburn, MA

3:45 p.m. – 5:30 p.m.

## Field Site #1

- Dual-Phase Extraction: Short-Term Remedial Actions and Pilot Testing
  - Mark Steiner, Chemviron Midwest, Inc., Wooster, OH; James Begley, inVentus Technologies, Plymouth, MA



5:30 p.m. – 7:30 p.m. Complimentary Socializer in the Exhibit Hall Sponsored by The Nielsen Environmental Field School

# Thursday, January 14, 2010

8:00 a.m. – 10:00 a.m.

Conference Platform Papers

Conference Hall - Salons F & G

Session IX – Ground-Water Sampling

## Session Moderator: To Be Announced

- Low-Flow Purging and Sampling in a Stratified Aquifer: Purge Stability and Attainment of Flow-Weighted Averages
  - Sanford L. Britt, *ProHydro Inc., Fairport, NY*
- Rigid Porous Polyethylene (RPP) Passive-Diffusion Samplers Case Studies and Comparisons with Conventional Sampling Techniques
  - Mark Wilson and Dee O'Neill, Columbia Analytical Services, Rochester, NY
- Passive Ground-Water Sampling and Small-Diameter Direct Push Wells: Does Size Matter?
  - Kent Cordry, Geolnsight Inc., Las Cruces, NM
- Going Green: Reducing the Environmental and Monetary Footprint of Ground-Water Sampling
  - Toni Mehraban, Stacey Areno, Paula Gellner, Jennifer Miller and Hhan Olsen, MWH Americas, Salt Lake City, UT; Barbara Hall and Britt Grunewald, Hill Air Force Base, Salt Lake City, UT

10:00 a.m. - 10:15 a.m. Refreshment Break

10:15 a.m. – 12:15 p.m.

**Conference Platform Papers** 

Conference Hall – Salons F & G

Session X – Characterization of Ground-Water and Surface-Water Systems

- ➤ The Importance of Properly Developing Ground-Water Monitoring Wells
  - Thomas Kwader, URS Corp., Tallahassee, FL



- WQS Statistics, Emerging Contaminants and Potential New Tools for Water Quality Managers
  - Al Alwan, John Dorkin and Arthur Lubin, *US Environmental Protection Agency, Region 5, Chicago, IL*
- Rapid Toxicity Assessments (RTAs) to Optimize Water-Quality Testing Budgets
  - Bryan Bjorndahl, Assure Controls Inc., Vista, CA
- Benefits of Auditing Field Activities
  - Linda E. Hoffman, HSW Engineering Inc., Tampa, FL

8:00 a.m. – 12:15 p.m.

**Indoor Workshops** 

Breakout Rooms - Second Floor

(Refreshment Break from 10:00 a.m. - 10:15 a.m. in the Exhibit Hall)

## Magnolia Room

- Advanced Design Application & Data Analysis for FP-XRF in Soil Matrices \*
  - Deana M. Crumbling, US Environmental Protection Agency, Washington, DC
     \* This is Part 1 of an 8-hour workshop it will resume at 1:15 p.m.

## Citrus Room

- Environmental Forensics \*
  - Dennis Beckman, *BP Remediation Engineers & Technology;* Lyle Bruce, Consultant (*BP Remediation, Retired*)
    - \* This is Part 1 of an 8-hour workshop it will resume at 1:15 p.m.

# Cypress Room

- Environmental Chemistry Basics for Remediation: Implications for Surfactant-Enhanced Remediation
  - Bud Ivey, Ivey International, Campbell River, BC

## Palm Room

- Using Bio-Sep Traps for Robust Decision Making in the Management and Remediation of Ground Water Impacted by Hydrocarbons, Fuel Oxygenates and Chlorinated Hydrocarbons
  - Kerry Sublette, *University of Tulsa, Dept of Chemical Engineering, Tulsa, OK*; Greg Davis, *Microbial Insights, Rockford, TN*

8:45 a.m. – 12:15 p.m.

Outdoor Workshops & Equipment Demos

Outdoor Field Area



8:45 a.m. - 9:45 a.m.

## Field Site #2

- Compact Rotosonic In Action
  - Mike Casey, Sonic Sampling and Supply, Woodacre, CA

8:45 a.m. – 9:45 a.m.

## Field Site #1

- Recent Advances in Methods for Determining VOC Concentrations in Core From Sedimentary Rock Sites
  - Beth L. Parker, University of Guelph, School of Engineering, Guelph, ON;
     Tadeusz Gorecki, University of Waterloo, Waterloo, ON; Seth Pitkin, Stone Environmental, Montpelier, VT

10:00 a.m. – 11:00 a.m.

## Field Site #1

- > Ground-Water and Remedial Investigations Using Direct Push, Hollow-Stem Auger, CPTu and HRP Technologies
  - Tom Dalzell and Ken Lipscomb, AMS Inc., American Falls, ID; Per Lundgren, Envi, Alingsas, Sweden

10:00 a.m. – 11:00 a.m.

Field Site #2

Open

11:15 a.m. – 12:15 p.m.

### Field Site #1

- Soil Sampling, Soil Gas Sampling and Remedial Injection Procedures Using Hand-Operated and Direct-Push Equipment
  - Tom Dalzell, Ryan Anderson and Hari Anestos, AMS Inc., American Falls, ID; Per Lundgren, Envi, Alingsas, Sweden

11:15 a.m. – 12:15 p.m.

## Field Site #2

- ➤ Demonstration of the Geoprobe 8140 Sonic Machine
  - Tom Omli, Geoprobe Systems, Salina, KS

12:15 p.m. – 1:15 p.m. Lunch Break

1:15 p.m. – 3:15 p.m.

**Conference Platform Papers** 

Conference Hall – Salons F & G Session XI – Vapor Intrusion

Session Moderator: To Be Announced

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FIELD SCHOOL, INC.

- Practical Guidelines for Vapor Intrusion Studies
  - Steven D. Folsom, HSA Engineers & Scientists, Tampa, FL
- Quantitative Passive Sampling for Vapor Intrusion Assessment Recent Developments to Improve Quantitation and Reduce the Costs of Monitoring
  - Todd A. McAlary and Hester Groenevelt, Geosyntec Consultants, Inc., Guelph, ON; Suresh Seethapathy and Tadeusz Gorecki, University of Waterloo, Department of Earth Sciences, Waterloo, ON
- A New Passive Diffusion Sampler for Improving the Calibration of Models to Evaluate Vapor Movement at UST Sites
  - Cynthia J Paul, Dominic DiGiulio, John T. Wilson and Ken Jewell, US Environmental Protection Agency, National Risk Management Research Laboratory, Ada, OK; John Menatti and Robin Davis, Utah Department of Environmental Quality, Salt Lake City, UT
- Potential Vapor Intrusion Issues Regarding the Use of Edible Oil Injections for the Treatment of High Concentration DNAPLs Dissolved in Ground Water
  - Mark S. Leeper, Defense Logistics Agency, Fort Belvoir, VA; Patrick Hass, Hass & Associates; Manish M. Joshi, AECOM

3:15 p.m. - 3:30 p.m. Refreshment Break

3:30 p.m. – 6:00 p.m.

# **Conference Platform Papers**

Conference Hall – Salons F & G Session XII – Characterization of Soil Systems

- Field Sampling for Site Characterization: Lessons Learned
  - Steven T. Downey, *Shaw Environment & Infrastructure, Knoxville, TN;* Kimberlie Chambers, *McTech*
- Instant Metal Mapping with Commercially Available Field-Portable GRS-XRF Systems
  - Ken Smith, Kimberley A. Russell and Jose Brum, Innov-X Systems, Woburn, MA
- Multi-Incremental versus Composite Grab Sample Characterization in Mountainous Terrain
  - Richard Meadows and Nick McHenry, U.S. Army Corps of Engineers, Huntington, WV; John Quaranta and Suzanne Belle, West Virginia University, Morgantown, WV



- > Depth Profile Sampling for Perchlorate at the Utah Test and Training Range
  - Wayne C. Downs, Hill Air Force Base, Salt Lake City, UT; Karl C. Nieman, Select Engineering Services, Layton, UT
- Implementation of Method 8330B for Explosives Residue Characterization at the Utah Test and Training Range
  - Karl C Nieman, Select Engineering Services, Layton, UT; Wayne C. Downs, Hill Air Force Base, Salt Lake City, UT

1:15 p.m. – 5:30 p.m.

# **Indoor Workshops**

Breakout Rooms - Second Floor

(Refreshment Break from 3:15 p.m. – 3:30 p.m. in the Exhibit Hall)

# Magnolia Room

- Advanced Design Application & Data Analysis for FP-XRF in Soil Matrices \*
  - Deana M. Crumbling, US Environmental Protection Agency, Washington, DC
     \* This is Part 2 of an 8-hour workshop

## Citrus Room

- Environmental Forensics \*
  - Dennis Beckman, BP Remediation Engineers & Technology; Lyle Bruce, Consultant (BP Remediation, Retired)
     \* This is Part 2 of an 8-hour workshop

1:15 p.m. – 3:15 p.m.

# Cypress Room

- ➤ A Look at Non-Ideal Aquifer Test Response What Are the Data Really Saying?
  - Willis Weight, Carroll College, Department of Mathematics, Engineering & Computer Science, Helena, MT

3:30 p.m. – 4:30 p.m.

# Cypress Room

- Low-Flow Ground-Water Sampling
  - Robert Mooney, In-Situ Inc., Fort Collins, CO

4:30 p.m. – 5:30 p.m.

Cypress Room

Open

1:15 p.m. – 5:30 p.m.

Palm Room

Open



1:15 p.m. – 4:45 p.m.

# **Outdoor Workshops & Equipment Demos**

Outdoor Field Area

1:15 p.m. - 2:15 p.m.

Field Site #2

- ➤ Demonstration of HPT Logging Using the Geoprobe 7855 Direct-Push Platform
  - Wes McCall and Thomas Christy, Geoprobe Systems, Salina, KS

1:15 p.m. – 2:15 p.m.

Field Site #1

- Low-Flow Ground-Water Sampling
  - Jason Evans, In-Situ Inc., Fort Collins, CO

2:30 p.m. - 3:30 p.m.

Field Site #1

- Deployment & Retrieval of Rigid Porous Polyethylene (RPP) Passive Diffusion Samplers
  - Mark Wilson, Columbia Analytical Services, Inc., Rochester, NY

2:30 p.m. - 3:30 p.m.

Field Site #2

- Application and Use of Surfactant Technology to Enhance In-Situ Contaminant Remediation
  - Bud Ivey, Ivey International, Campbell River, BC

3:45 p.m. – 4:45 p.m.

Field Site #1

Open

3:45 p.m. - 4:45 p.m.

Field Site #2

Open

6:00 p.m. Conference Adjourns for the Day

Complimentary Embassy Suites Manager's Reception for Guests Staying at the Host Hotel

# Friday, January 15, 2010

8:00 a.m. – 10:00 a.m.

**Conference Platform Papers** 

Conference Hall (Salons F & G)

Session XIII – Assessment & Monitoring for Remediation/Site Remediation Approaches



- Vadose Zone Monitoring As a Key to Ground-Water Protection and Optimization of Remediation Strategies
  - Ofer Dahan, Ben-Gurion University, Zuckerberg Institute for Water Research, Ben Gurion, Israel
- Evaluation of Injection Techniques in Moraine Clay with Sand Stringers, Skuldelev, Denmark
  - Joe Rossabi and John Haselow, Redox Tech, Cary, NC; \_ Christensen, \_ Muchitsch, \_ Riis, \_ Layburn, \_ Thompson, NIRAS; \_ Terkelsen, Capitol Region, Denmark
- ➤ Bioremediation of Chlorinated Solvent DNAPL Using Passive Aggression
  - Sam Williams & Brian Hitchens, Geosyntec Consultants Inc., San Diego, CA
- In-Situ Chemical Reduction Technologies Differentiators and Implementation
  - Jim Mueller and Ramon Rivera, The Adventus Group, Titusville, FL

10:00 a.m. – 10:15 a.m. Refreshment Break

10:15 a.m. – 12:15 p.m.

# **Conference Platform Papers**

Conference Hall (Salons F & G)

Session XIV – Contaminant Remediation Approaches

## Session Moderator: To Be Announced

- Oxygen Issues in the Application of Reductive Dechlorination
  - Joe Rossabi, John Haselow and \_\_\_\_\_ Steffan, Redox Tech, Cary, NC
- ➤ Hyperaccumulation of Cadmium by Soybean Plants A Phytoremedial Approach
  - Rashimi Gurram, Flushing, NY
- Natural Attenuation at a Site Located in Southeastern Mexico, a Case Study
  - Alfonso Espitia C., Javier Barron S. and Adriana Roldan-Martin, Universidad Autonoma Metropolitan-Azcapotzalco, Departmento de Energia, Azcapotzalco, Mexico
- Cement Kiln Dust Used In-Situ for the Stabilization of Hazardous Waste
  - Paul Ruehl, LaFarge North America, Bingham Farms, MI

8:00 a.m. – 12:15 p.m.

## **Indoor Workshops**

Breakout Rooms - Second Floor

(Refreshment Break from 10:00 a.m. – 10:15 a.m. in the lobby across from the Conference Room – Salons F & G)



# Magnolia Room

- > Proper Drilling and Grouting Practices for a Variety of Geologic Environments
  - Dennis Duty, Jim Mabrey and Mark Whittle, Baroid Industrial Drilling Products, Houston, TX

## Citrus Room

- Designing Pumping and Slug Tests and Using Pressure Transducer Data
  - Ted Way, In-Situ Inc., Fort Collins, CO

## Palm Room

- Practical Training in the Use of Direct-Push Logging Methods for Site Characterization
  - Wes McCall, Thomas M. Christy and Dan Pipp, Geoprobe Systems, Salina, KS

8:00 a.m. - 12:15 p.m.

Cypress Room

Open

12:15 p.m. – 12:30 p.m.

**Conference Closing Remarks and Adjournment** 

Conference Hall – Salons F & G