

2010 MONTEREY CONFERENCE: PROGRAM AT A GLANCE

SUNDAY

SHORT COURSES, 8:00 A.M. – 5:00 P.M.

- Use of Practical Models to Support Remediation of Chlorinated Solvents
- Approaches for the Remediation of DNAPL Sites and Tools for Measuring Mass Flux and Mass Discharge in the Remediation Process (An ITRC Course)
- Phytotechnologies (An ITRC Course)

SHORT COURSES, 8:00 A.M. – Noon

- Building a Better Background Data Set
- Practical Training in the Use of Direct-Push Logging Methods for Site Characterization
- The SRT™ and SiteWise™ Sustainable Remediation Tools
- Introduction to Groundwater Remediation Geochemistry

SHORT COURSE, 1:00 – 3:30 P.M.

- 3-D Visualization of Site Remediation Data: From Site Characterization to Post-Remediation Monitoring

SHORT COURSES, 1:00 – 5:00 P.M.

- Geochemical Evaluations of Metals in Environmental Media: How to Distinguish Naturally Elevated Concentrations from Site-Related Contamination
- Striking a Sustainable Balance: A Practical Guide to Successfully Implementing Greener Remediation Solutions
- New Tools and New Approaches to Improve the Assessment and Evaluation of Monitored Natural Attenuation (MNA) of Organic Compounds in Groundwater

MONDAY

PLENARY SESSION 8:30 – 10:45 A.M.

PLATFORM SESSIONS 12:35 – 5:10 P.M.

Track A

- A1.** Environmental Transport Processes and Bioavailability of PAHs: Bridging the Gap between Sampling, Analysis, and Risk
- A2.** Environmental Impacts of Biofuels

Track B

- B1.** Risk-Based and Performance-Based Cleanup
- Panel Discussion.** Setting Cleanup Objectives: State Regulator Experiences from Across the Nation (An ITRC Panel)

Track C

- C1.** Net Environmental, Social, and Economic Benefits of Green and Sustainable Remediation
- C2.** Metrics and Tools for Green and Sustainable Remediation

Track D

- D1.** In Situ Chemical Oxidation: Recent Advances

POSTER PRESENTATIONS 5:15 – 7:00 P.M. (see page 8)

TUESDAY

PLATFORM SESSIONS 8:00 A.M. – 5:10 P.M.

Track A

- A3.** Application of Compound-Specific Isotope Analysis in Forensic Analysis
- A4.** Perchlorate Source Identification, Detection, and Remediation
- A5.** Innovative Site Assessment Tools and Techniques

Track B

- B2.** Remediation Cost and Technology Selection
- B3.** Mass Flux/Discharge as a Remediation Performance Metric
- B4.** Site Closure and Exit Strategies, Including Alternative Endpoints

Track C

- C3.** Incorporating Green and Sustainable Remediation into Remedy Selection and Design
- Panel Discussion.** Cost and Value of GSR: Making the Business Case
- C4.** System Optimization for Impact Mitigation

Track D

- D2.** In Situ Chemical Oxidation Case Studies
- D3.** Best Practices and Protocols for In Situ Chemical Oxidation
- D4.** In Situ Chemical Reduction

POSTER PRESENTATIONS 5:15 – 7:00 P.M. (see page 8)

WEDNESDAY

PLATFORM SESSIONS 8:00 A.M. – 10:55 A.M.

Track A

- A6.** Data Enhancements Using Innovative Approaches to Contaminant Monitoring

Track B

- B5.** Case Studies in Achieving MCLs at Chlorinated Solvent Sites

Track C

- C5.** Use of On-Site Renewable Energy

Track D

- D5.** Optimized Strategies for Subsurface Delivery of Injectable Zero-Valent Iron

POSTER PRESENTATIONS 11:00 A.M. – 12:45 P.M. (see page 8)

Technical program recesses at 12:45 P.M. Short Courses are offered 1:00 – 5:00 P.M. (see page 7).

THURSDAY

PLATFORM SESSIONS 8:00 A.M. – 3:55 P.M.

Track A

- A7.** Improvements in Verification of Monitored Natural Attenuation
- A8.** Long-Term Monitoring Strategies

Track B

- B6.** Remedy Optimization Strategies
- B7.** Air Force Environmental Restoration Program: Optimization from Remedy-in-Place to Response-Complete

Track C

- C6.** Programmatic Considerations for Green and Sustainable Remediation
- C7.** International Perspective for Green and Sustainable Remediation
- C8.** Sustainability in Site Reuse/Revitalization

Track D

- D6.** Optimized Strategies for Subsurface Delivery of In Situ Chemical Oxidation
- D7.** Improved Delivery Methods: Injection and Soil-Mixing
- D8.** Delivery Distribution Case Studies for ISCO and Bioremediation

HOURS AT A GLANCE

SUNDAY MAY 23, 2010

Short Courses
8:00 A.M. – NOON
1:00 – 5:00 P.M.
Registration, Exhibits, and
Welcome Reception
6:00 – 9:00 P.M.

MONDAY MAY 24, 2010

Exhibit Hall, Registration Desk, Posters
7:00 A.M. – 7:00 P.M.
Continental Breakfast 7:00 – 8:30 A.M.
Plenary Session 8:30 – 10:45 A.M.
Lunch on Own
Platform Sessions 12:35 – 5:10 P.M.
Poster Group 1 Presentations and
Reception 5:15 – 7:00 P.M.

TUESDAY MAY 25, 2010

Exhibit Hall, Registration Desk, Posters
7:00 A.M. – 7:00 P.M.
Continental Breakfast 7:00 – 8:00 A.M.
Platform Sessions 8:00 A.M. – 5:10 P.M.
Group Lunch
Poster Group 2 Presentations and
Reception 5:15 – 7:00 P.M.

WEDNESDAY MAY 26, 2010

Exhibit Hall, Registration Desk, Posters
7:00 A.M. – 1:00 P.M.
Continental Breakfast 7:00 – 8:00 A.M.
Platform Sessions 8:00 – 10:45 A.M.
Group Lunch and Poster Group 3
Presentations 11:00 A.M. – 12:45 P.M.
Short Courses 1:00 – 5:00 P.M.

THURSDAY MAY 27, 2010

Registration Desk 7:00 A.M. – 6:00 P.M.
Poster Display 7:00 A.M. – 1:00 P.M.
Continental Breakfast 7:00 – 8:00 A.M.
Platform Sessions 8:00 A.M. – 3:55 P.M.
Group Lunch
Closing Reception 4:00 – 5:30 P.M.

Track E

- E1.** Thermal Remediation Case Studies
- E2.** Thermal Remediation: Latest Developments and Recent Perspectives

Track F

- F1.** Enhanced Bioremediation of Chlorinated Solvents
- F2.** Physical and Microbiological Inhibitors to Bioremediation

Track G

- G1.** Contaminated Sediments Assessment and Remediation
- G2.** Vapor Intrusion CSMs: Toxicity, Risk, Fate and Transport

Track H

- H1.** Remediation of Nitrate in Soil and Groundwater
- H2.** Strategies for Groundwater Remediation in Fractured Bedrock and Low-Permeability Formations

Track E

- E3.** Combining Thermal with Other Remediation Technologies
- E4.** Improved Understanding and Approaches for Pump-and-Treat, Surfactant Flushing, and Ex Situ Groundwater Treatment Applications
- E5.** Advances in Physical/Chemical Remediation

Track F

- F3.** Biostimulation: Carbon Donor Strategy, Nutrients, and pH Control
- F4.** Bioaugmentation
- F5.** Molecular Biological Tools for Remediation

Track G

- G3.** Vapor Intrusion Sampling and Assessment
- G4.** Understanding and Accounting for Spatial and Temporal Variability in Vapor Intrusion Assessment Data Collection
- G5.** Linking Vapor Intrusion Issues with Cost-Effective Remediation and Sustainable Redevelopment
- G6.** Vapor Intrusion Mitigation

Track H

- H3.** Munitions Constituent Characterization and Treatment at Ammunition Plants, Training Ranges, and Munitions Response Sites
- H4.** Sampling, Analysis, and Remediation Strategies for EDCs, CO₂, and Other Emerging Contaminants
- H5.** Toxicology, Assessment, and Remediation of 1,4-Dioxane

Track E

- E6.** Innovative Advances and Applications of Biobarriers

Track F

- F6.** Advances in Bioremediation for Site Restoration

Track G

- G7.** Remediation of Metals and Arsenic in Soils and Groundwater

Track H

- H6.** Remediation of MGP Sites

SHORT COURSES, 1:00 P.M. – 5:00 P.M.

- Groundwater Remediation at Complex Sites: Alternative Endpoints and Strategies.
- High-Resolution Site Characterization
- Remediation Optimization: State of the Process (An ITRC Course)

- In-Well Stripping/Recirculation and Two-Phase Extraction Methods: Applications and Enhancements for Groundwater and Soil Remediation
- Applications of Stable Isotopes in Environmental and Forensic Geochemistry Studies, with Emphasis on Chlorinated and Recalcitrant Compounds
- DNAPL Remediation Decision-Making Based on Cost-Risk-Benefit Analysis

Track E

- E7.** Permeable Barrier Advances and Applications
- E8.** Nanoscale Zero-Valent Iron and Other Reactive Particles

Track F

- F7.** Field-Scale Applications of Enhanced In Situ Bioremediation
- F8.** Phytoremediation
- F9.** Interaction of In Situ Biotic and Abiotic Processes

Track G

- G8.** In Situ Remedial Strategies for Radionuclides
- Panel Discussion.** Approaching Sites with Metal- and Radionuclide-Contaminated Soils and Groundwater: A Paradigm Shift
- G9.** Chromium

Track H

- H7.** NAPLs: Plume Characterization and Remediation Strategies
- H8.** Advances in Detection and Remediation of PCBs, Dioxins, and Furans

POSTER SCHEDULE

In the session listings on pages 10–63, the poster presentations are marked with an asterisk (*). Poster sessions will be divided into three groups for display and presentation as shown below. Presenters will be standing at their posters during the designated presentation periods to discuss their work. Receptions will be served during the Monday and Tuesday evening poster sessions, and a light lunch will be provided during the Wednesday poster presentations.

POSTER GROUP 1

Display: Sunday 6:00 P.M.– Monday 7:00 P.M.

Presentations: Monday 5:15–7:00 P.M.

- A1. Environmental Transport Processes and Bioavailability of PAHs: Bridging the Gap between Sampling, Analysis, and Risk
- A2. Environmental Impacts of Biofuels
- B1. Risk-Based and Performance-Based Cleanup
- B2. Remediation Cost and Technology Selection
- B3. Mass Flux/Discharge as a Remediation Performance Metric
- C1. Net Environmental, Social, and Economic Benefits of Green and Sustainable Remediation
- C2. Metrics and Tools for Green and Sustainable Remediation
- C3. Incorporating Green and Sustainable Remediation into Remedy Selection and Design
- D1. In Situ Chemical Oxidation: Recent Advances
- D2. In Situ Chemical Oxidation Case Studies
- D3. Best Practices and Protocols for In Situ Chemical Oxidation
- E1. Thermal Remediation Case Studies
- E2. Thermal Remediation: Latest Developments and Recent Perspectives
- E3. Combining Thermal with Other Remediation Technologies
- F1. Enhanced Bioremediation of Chlorinated Solvents
- F2. Physical and Microbiological Inhibitors to Bioremediation
- F3. Biostimulation: Carbon Donor Strategy, Nutrients, and pH Control
- F4. Bioaugmentation
- G1. Contaminated Sediments Assessment and Remediation
- H1. Remediation of Nitrate in Soil and Groundwater
- H2. Strategies for Groundwater Remediation in Fractured Bedrock and Low-Permeability Formations
- H3. Munitions Constituent Characterization and Treatment at Ammunition Plants, Training Ranges, and Munitions Response Sites
- H4. Sampling, Analysis, and Remediation Strategies for EDCs, CO₂, and Other Emerging Contaminants
- H5. Toxicology, Assessment, and Remediation of 1,4-Dioxane

POSTER GROUP 2

Display: Tuesday 7:00 A.M.– 7:00 P.M.

Presentations: Tuesday 5:15–7:00 P.M.

- A3. Application of Compound-Specific Isotope Analysis in Forensic Analysis
- A4. Perchlorate Source Identification, Detection, and Remediation
- A5. Innovative Site Assessment Tools and Techniques
- B4. Site Closure and Exit Strategies, Including Alternative Endpoints
- B5. Case Studies in Achieving MCLs at Chlorinated Solvent Sites
- C4. System Optimization for Impact Mitigation
- C5. Use of On-Site Renewable Energy

- C6. Programmatic Considerations for Green and Sustainable Remediation
- C7. International Perspective for Green and Sustainable Remediation
- C8. Sustainability in Site Reuse/Revitalization
- D4. In Situ Chemical Reduction
- D5. Optimized Strategies for Subsurface Delivery of Injectable Zero-Valent Iron
- D6. Optimized Strategies for Subsurface Delivery of In Situ Chemical Oxidation
- E4. Improved Understanding and Approaches for Pump-and-Treat, Surfactant Flushing, and Ex Situ Groundwater Treatment Applications
- E5. Advances in Physical/Chemical Remediation
- F5. Molecular Biological Tools for Remediation
- G2. Vapor Intrusion CSMS: Toxicity, Risk, Fate and Transport
- G3. Vapor Intrusion Sampling and Assessment
- G4. Understanding and Accounting for Spatial and Temporal Variability in Vapor Intrusion Assessment Data Collection
- G5. Linking Vapor Intrusion Issues with Cost-Effective Remediation and Sustainable Redevelopment
- G6. Vapor Intrusion Mitigation
- H6. Remediation of MGP Sites

POSTER GROUP 3

Display: Wednesday 7:00 A.M.– Thursday 1:00 P.M.

Presentations: Wednesday 11:00 A.M.–12:45 P.M.

- A6. Data Enhancements Using Innovative Approaches to Contaminant Monitoring
- A7. Improvements in Verification of Monitored Natural Attenuation
- A8. Long-Term Monitoring Strategies
- B6. Remedy Optimization Strategies
- B7. Air Force Environmental Restoration Program: Optimization from Remedy-in-Place to Response-Complete
- D7. Improved Delivery Methods: Injection and Soil-Mixing
- D8. Delivery Distribution Case Studies for ISCO and Bioremediation
- E6. Innovative Advances and Applications of Biobarriers
- E7. Permeable Barrier Advances and Applications
- E8. Nanoscale Zero-Valent Iron and Other Reactive Particles
- F6. Advances in Bioremediation for Site Restoration
- F7. Field-Scale Applications of Enhanced In Situ Bioremediation
- F8. Phytoremediation
- F9. Interaction of In Situ Biotic and Abiotic Processes
- G7. Remediation of Metals and Arsenic in Soils and Groundwater
- G8. In Situ Remedial Strategies for Radionuclides
- G9. Chromium
- H7. NAPLs: Plume Characterization and Remediation Strategies
- H8. Advances in Detection and Remediation of PCBs, Dioxins, and Furans