

FRTR Meeting
Characterization and Remediation of Sites with Fractured Bedrock

AGENDA
November 9, 2010

Overall Objectives for the Meeting:

1. Improve communication and common understanding of the topic.
2. Share experience and lessons learned in advancing best practices.
3. Outline key issues and develop shared strategies to address them.

8:30 – 8:45	<p>Welcome/Introduction/Administrative Business <i>Arnold Layne, USEPA/OSWER/OSRTI</i></p>
8:45 – 9:15	<p>FRTR Announcements and Meeting Objectives</p> <ul style="list-style-type: none"> • FRTR Agency Announcements (Projects/Initiatives) • FRTR Subgroup Reports (Vapor Intrusion, Green Remediation) • Ballots for Future Meeting Topics/Current Meeting Objectives <p><i>Jim Cummings, USEPA/OSWER/OSRTI</i></p>
9:15 – 10:15	<p>Characterization of Contamination in Fractured Media Moderator: <i>Allen Shapiro, USGS</i></p> <ul style="list-style-type: none"> • Addressing the Complexities of Contamination and Remediation in Fractured Rock Aquifers <i>Allen Shapiro, USGS</i> • Tools for Characterization and Monitoring of Contaminated Fractured Rock <i>Dan Goode, USGS</i>
10:15 – 10:45	BREAK
10:45 – 12:15	<p>Characterization (cont.) Moderator: <i>Allen Shapiro</i></p> <ul style="list-style-type: none"> • Demonstration and Validation of a Fractured Rock Passive Flux Meter <i>Kirk Hatfield, University of Florida</i> • Fractured Bedrock Characterization and Effective Remedy Selection in Region 4 <i>Ben Bentkowski, USEPA/Region 4</i> • Autopsy of a Small UST Site in Bedrock: Implications for Remedial Effectiveness <i>Bill Brandon, USEPA/Region 1</i>
12:15 – 1:00	<p>Working Lunch on Site</p> <ul style="list-style-type: none"> • <i>In Situ</i> Bioremediation at FracRock Sites <i>Mary deFlaun, GeoSyntec</i> <p>Ballots Collected</p>

1:00 – 2:00	<p>Treatment of FracRock Sites Moderator: <i>Jim Cummings</i></p> <ul style="list-style-type: none"> • Successful DNAPL Remediation Using Radio Frequency Heating and Return to Thermal Equilibrium <i>Alicia Kabir, ERM (Boston)</i> • Source Removal of VOC Contaminants in Bedrock Letterkenny Army Depot, Chambersburg, Pennsylvania <i>Paul Stone III, USACE</i>
2:00 – 2:30	BREAK
2:30 – 3:30	<p>Treatment (cont.) Moderator: <i>Jim Cummings</i></p> <ul style="list-style-type: none"> • The Application of <i>In Situ</i> Chemical Oxidation (ISCO) in Fractured Bedrock Using Geophysical Aided Design <i>Susanne Borchert, CH2M HILL</i> • Subsurface Characterization, Modeling, Monitoring, and Remediation of Fractured Porous Rocks <i>Carlos Santamarina, NRC Committee on Geological and Geotechnical Engineering</i>
3:30 – 3:45	Action Items and Follow-up
3:45 – 4:00	Wrap-up
4:00	ADJOURN