John Kingscott
June 5, 2008

Federal Remediation Technologies Roundtable Meeting
June 2008

Federal Remediation Technologies Roundtable

LEADING THE FEDERAL GOVERNMENT'S EFFORTS TO PROMOTE INTERAGENCY COOPERATION TO ADVANCE THE USE OF INNOVATIVE TECHNOLOGIES TO CLEAN UP HAZARDOUS WASTE CONTAMINATION

Website Redesign Objectives

- Update and Expand this Federal Technology Resource
- Improve Functionality/ Relevance
- Simplify/Make More User Friendly
- Update Agency Program Links

Proposed New Tabs

- What's New?
- Technology Screening Matrix
- Cost and Performance Case Studies
- Decision Support Matrix
- Current Publications
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Federal Remediation Technologies Roundtable

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The **Federal Remediation Technologies Roundtable (FRTR)** works to build a collaborative atmosphere among federal agencies involved in hazardous waste site cleanup. FRTR was established in 1990 to bring together top federal cleanup program managers and other remediation community representatives to:

- Share information and learn about technology-related efforts of mutual interest,
- Discuss future directions of the national site remediation programs and their impact on the technology market,
- Interact with similar state and private industry technology development programs, and
- Form partnerships to pursue subjects of mutual interest.

Leading the Federal Government's Efforts to Promote Interagency Cooperation to Advance the Use of Innovative Technologies to Cleanup Hazardous Waste Contamination

FRTR members-agencies include:

- U.S. Department of Defense
  - U.S. Air Force
  - U.S. Army
  - U.S. Navy
- U.S. Department of Energy
- U.S. Department of the Interior
- U.S. Environmental Protection Agency
- National Aeronautics and Space Administration

Since its inception, collaborative efforts among the FRTR member-agencies have led to technology development and demonstration partnerships with private developers, a more consistent and unified federal approach to technology evaluation and regulatory acceptance, and a variety of technology transfer tools and other information resources.

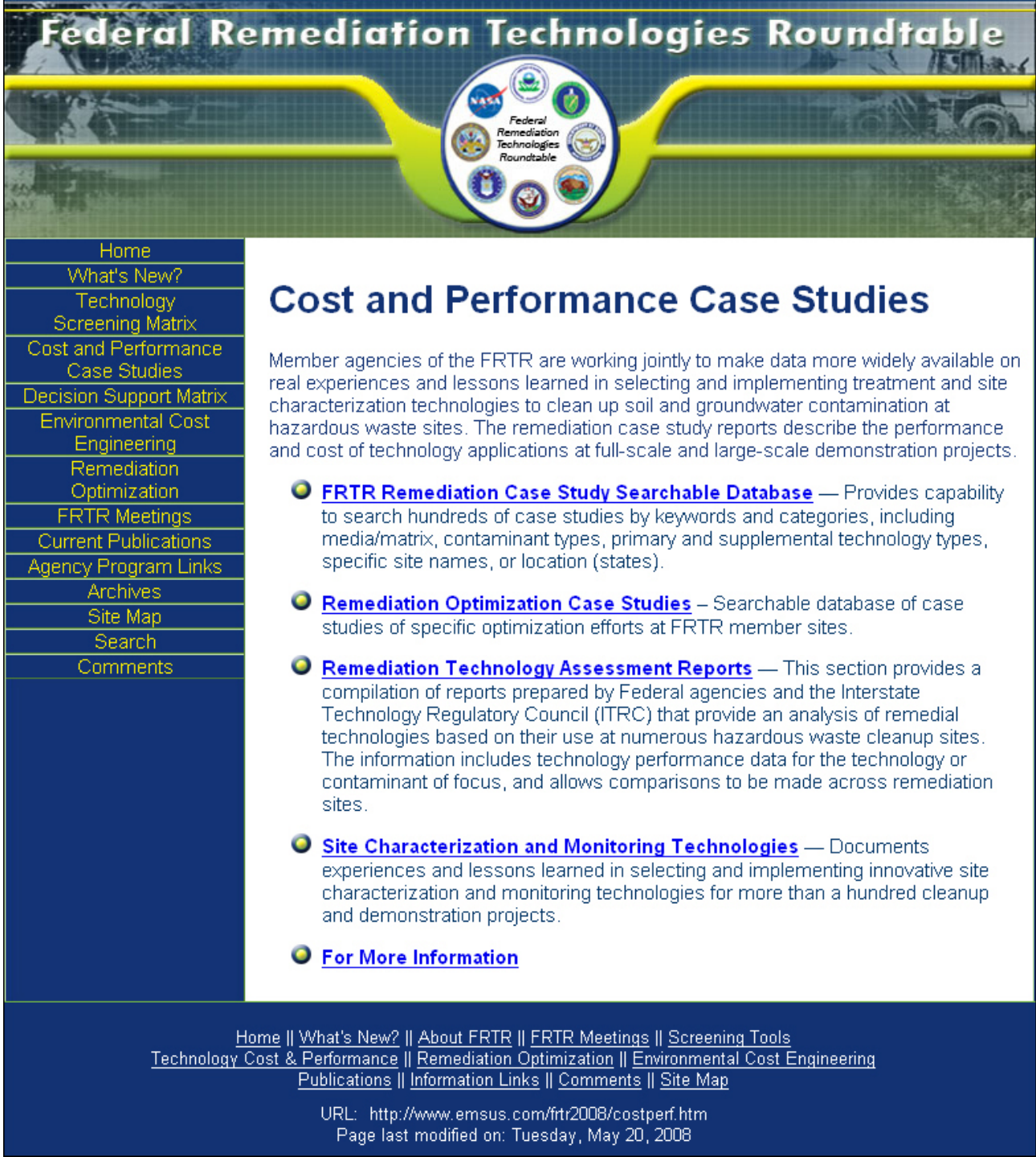
URL: http://www.emsus.com/frtr2008/
Page last modified on: Tuesday, May 20, 2008

What's New?

- Opportunity for members to contribute
- Updated monthly
- Includes notices about meetings, conferences, publications, etc. of interest to FRTR

Cost and Performance Case Studies

- All case study databases accessible with one button
- Entries within each section arranged by date with the most recent first



Current Publications

- Includes FRTR member agency publications
- Showcases landmark agency reports; retained for one year
- Listed by date; most recent first
- EPA to discontinue publishing *"Abstracts of Remediation Case Studies"*

New Case Studies and Reports* Spring 2008

Focus Area	Total Number
Treatment	8
Technology Assessments	5
Site Characterization	4
Optimization/Long-Term Monitoring	17
Total	34

* See attached spreadsheet for details

Table 1: Remediation Case Studies

Agency	Case study title	Technology	Media	In Situ/Ex Situ
EPA	Soil Vapor Extraction, Pump and Treat, and In Situ Chemical Oxidation at Dry Clean USA No. 11502, Orlando, Florida	Soil Vapor Extraction, Pump and Treat, and In Situ Chemical Oxidation	Soil, GW	In Situ/Ex Situ
	Electrical Resistive Heating and Biosparging at the ICN Pharmaceutical Site Portland, Oregon	Electrical Resistive Heating and Biosparging	GW	In Situ
	In Situ Chemical Oxidation and Soil Vapor Extraction at Hanner's Dry Cleaners, Pompano Beach, Florida	Soil Vapor Extraction, In Situ Chemical Oxidation, and In situ bio-stimulation	Soil, GW	In Situ
AFCEE	Enhanced In-Situ Anaerobic Bioremediation of Chlorinated Solvents at the Hangar K Site, Cape Canaveral Air Force Station, Florida	Enhanced In-Situ Anaerobic Bioremediation	GW	In Situ
	Enhanced In-Situ Anaerobic Bioremediation of Chlorinated Solvents at FF-87, Former Newark Air Force Base, Ohio	Enhanced In-Situ Anaerobic Bioremediation	GW	In Situ
	Enhanced In-Situ Anaerobic Bioremediation of Chlorinated Solvents at LF-08, Whiteman Air Force Base, Missouri	Enhanced In-Situ Anaerobic Bioremediation	GW	In Situ
ESTCP/AF	In-Situ Substrate Addition to Create Reactive Zones for Treatment of Chlorinated Aliphatic Hydrocarbons	Enhanced reductive dechlorination	Soil, GW	In Situ
ESTCP/ NFESC/AF	In Situ Catalytic Groundwater Treatment Using Palladium Catalysts and Horizontal Flow Treatment Wells	Palladium catalyzed dehalogenation	Soil, GW	In Situ

Table 2: Site Characterization and Monitoring Case Studies

Agency	Case study title	Category
ITRC	Triad Implementation Guide	Triad
ESTCP	Field Demonstration and Validation of a New Device for Measuring Water and Solute Fluxes (Summary of Cost and Performance Data)	Passive Flux Meters
	Field Demonstration and Validation of a New Device for Measuring Water and Solute Fluxes at CFB Borden (Detailed Cost and Performance Data, QAPP, and Raw data)	Passive Flux Meters
DOE	New Soil VOC Sampler:Accu Core® Sampling/Storage Device for VOC Analysis	Organic Chemical Characterization

Table 3: Technology Assessment Reports

Agency	Report Title	Category
ITRC	In Situ Bioremediation of Chlorinated Ethene DNAPL Source Zones: Case Studies	In Situ Bioremediation
	Remediation Technologies for Perchlorate Contamination in Water and Soil	Perchlorate
AFCEE	Protocol for In Situ Bioremediation of Chlorinated Solvents Using Edible Oil	In Situ Bioremediation
EPA	A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems	Pump and Treat
	The Use of Soil Amendments for Remediation, Revitalization and Reuse	Soil Amendments

Table 4: Long-Term Monitoring and Optimization Case Studies

Agency	Report Title	Technology Category
EPA	A Cost Comparison Framework for Use in Optimizing Ground Water Pump and Treat Systems	Pump and Treat
	Long-Term Groundwater Monitoring Optimization, Newark, Muscoy, and Source Operable Units, Newmark Superfund Sites, San Bernardino, California	Pump and Treat
	Long-Term Groundwater Monitoring Optimization, Taylor Road Landfill Superfund Site, Seffner, Hillsborough County, Florida	Pump and Treat
	Remediation System Evaluation (RSE) Ace Services Superfund Site, Colby, Kansas	Pump and Treat, Free Product Recovery
	Remediation System Evaluation (RSE) Northwest Pipe and Casting Site, Clackamas, Oregon	In-situ air stripping
	Remediation System Evaluation (RSE) Central City/Clear Creek Superfund Site, Argo Tunnel Water Treatment Plant, Idaho Springs, Colorado	Chemical Precipitation (pH adjustment and metal removal)
	Streamlined Remediation System Evaluation (RSE-Lite), Benfield Industries Superfund Site Waynesville, North Carolina	Water extraction wells with direct discharge to the POTW sewer
	Final Report: Pilot Region-Based Optimization Program for Fund-Lead Sites EPA Region III	Pump and Treat
	Optimization Strategies for Long-Term Ground Water Remedies (with Particular Emphasis on Pump and Treat Systems)	Pump and Treat
	Groundwater Monitoring Network Optimization Frontier Hard Chrome Superfund Site, Vancouver, Washington	In-situ Redox Manipulation

Table 4: Long-Term Monitoring and Optimization Case Studies, cont.

Agency	Report Title	Technology Category
DOE	Review Report: Feasibility Study Strategies and Remedial System Performance Improvement for the 200-ZP-1/PW-1 Operable Unit at Hanford	Pump and Treat, and SVE
	Optimization of Ground Water Pump and Treat Systems at Hanford	Pump and Treat
	Evaluation of Amendments for Mending The ISRM Barrier	In Situ Redox Manipulation (ISRM) Barrier
	Paducah 2006 Site Wide Remedy Review	Electrical Resistance Heating and Steam Heating, Pump and Treat,
	Review Report: Groundwater Remedial System Performance Optimization at PGDP, Paducah, Kentucky	Pump and Treat
	Improving Remedial Effectiveness at U.S. Department of Energy through Optimization Review and Performance Basis - 8209	General
	Optimization of Groundwater Monitoring at the Hanford Site	Groundwater Monitoring

Next Steps

- Site will be “live” at www.frtr.gov by the end of June. Tell us what you think.
  - Click on “Comment” button in left-hand navigation bar to provide input
- Participate in keeping website up-to-date
  - Contribute items for What’s New? and Current Publications
  - Inform Corps/EPA of changes to the web links; old publications that have been replaced
- Identify opportunities for new C&P case studies
- Comment on draft Fact Sheet by July 5, 2008
- EPA will distribute final fact sheet to member agencies

Federal Agency Cost and Performance Points of Contact

Organization	Point of Contact *
Army AEC	Scott Hill
USACE	Carol Lee Dona
Navy	Amy Walker/Chuck Reeter
Air Force	Erica Becvar/James Gonzales
ESTCP	Andrea Leeson
DOE	Beth Moore
EPA	John Kingscott/Marti Otto
NASA	Mark Schoppet
USGS	David Morganwalp

* If any of the above points of contact have changed, please provide new information to otto.martha@epa.gov