

## Message #17: July, 1998

Since June 1, TechDirect gained 115 new subscribers for a total of 4626. Welcome to all the newcomers. If your peers are interested in subscribing to TechDirect, they may do so on the Clean-Up Information (CLU-IN) home page at <http://clu-in.org/membersh.htm>. If they do not have Internet access, your peers may subscribe to TechDirect by sending an E-mail message to [lyris@lists.epa.gov](mailto:lyris@lists.epa.gov), leave the Subject line empty, and in the body of the message type: subscribe TechDirect [First name] [Last name]. Visit the TechDirect archive at <http://clu-in.org/techdrct.htm> to catch up on documents previously highlighted.

### DOCUMENTS

**Ground Water Currents (EPA 542-N-98-006).** Ground Water Currents is a newsletter that provides descriptions and performance data for developments in innovative ground water treatment. This issue highlights remediation methods involving underground stripping in deep and shallow areas, *in situ* anaerobic bioremediation, and alternatives for DNAPL removal in fractured bedrock. [June 1998, 4 pages]. View or download from <http://clu-in.org/techpubs.htm>. Hard copy available in two weeks, contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**On-Site Incineration: Overview of Superfund Operating Experience (EPA 542-R-97-012).** Fifteen case studies were prepared to obtain additional data on operating experiences for completed incineration projects. These case studies were described in the June TechDirect (see <http://clu-in.org/products/costperf/incinrtn/>). This report summarizes the 15 case studies, provides technology descriptions, and makes general observations based on individual applications [March 1998, 33 pages]. View or download from <http://clu-in.org/techpubs.htm>. Hard copies available from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Permeable Reactive Barrier Demonstration Profiles.** This web-based document is a product of the Remediation Technologies Development Forum, Permeable Reactive Barriers Action Team. It is a status report on the use of permeable reactive barriers (PRBs) for ground-water remediation in the United States, Canada, and selected locations abroad. It is intended to provide site owners and managers with a central source of information about the use of PRBs. Additional profiles will be developed as sites are identified.

Profiles will be updated semi-annually, more often if new information is received. Included in this report are profiles of ongoing and completed pilot- and full-scale PRB demonstrations as well as full-scale installations. The data included are site name, location, contaminants treated, characteristics of the site, reactive material(s) used, type of construction, installation date, installation cost, results achieved, and point of contact for further information. The summary reports may viewed at <http://www.rtdf.org/public/permbarr/barrdocs.htm>.

***In Situ* Permeable Flow Sensor (DOE OST #99).** This report was developed by the Department of Energy Office of Science and Technology, Subsurface Contaminant Focus Area. This report is designed to provide potential users with the information they need to quickly determine if *in situ* permeable flow sensors would apply to a particular environmental management problem. They are also designed for readers who may recommend that a technology be considered by prospective users. View or print at

<http://apps.em.doe.gov/ost/pubs/itsrs/itsr99.pdf>.

**NATO/CCMS Pilot Study on Evaluation of Demonstrated and Emerging Technologies for the Treatment of Contaminated Land and Groundwater.** Download or view the following documents at <http://www.clu-in.org/partner1.cfm>

or <http://www.nato.int/ccms>. Limited number of printed copies available from (800) 490-9198 or (513) 489-8190 or fax your request to (513)891-6685.

**(1) Phase III 1998 Annual Report (EPA 542-R-98-002).** This volume contains national status reports from 18 countries on hazardous waste remediation, abstracts of 15 demonstration pilots accepted for Phase III, and contacts for participating countries. Conference held February 22-23, 1998 [May 1998, 137+ pages].

**(2) Phase III 1998 Special Session: Treatment Walls and Permeable Reactive Barriers (EPA 542-R-98-003).** This volume contains the proceedings of a special session on the construction, reactive materials, and international case studies held February 22-23, 1998 [May 1998, 111+ pages].

**Development of an Integrated *In-Situ* Remediation Technology: Draft Topical Report for Task #7.2 entitled, Field Scale Studies.** This document was developed by the Lasagna Partnership of the Remediation Technologies Development Forum (RTDF). The technology is an integrated *in situ* treatment in which established geotechnical methods are used to install degradation zones directly in the contaminated soil and electro-osmosis is utilized to move the

contaminants back and forth through those zones until the treatment is completed. The Topical Report for Task #7.2 summarizes the Field Scale Test conducted by Monsanto Company, DuPont, and General Electric [April 1998, 54 pages]. Download or view at

<http://clu-in.org/download/rtdf/lasagna/monrpt2.pdf>.

**Development of an Integrated *In-Situ* Remediation Technology: Draft Topical Report for Task #3.2 entitled, Modeling and Iron Dechlorination Studies.** This document was developed by the Lasagna Partnership of the Remediation Technologies Development Forum (RTDF). The technology is an integrated *in situ* treatment in which established geotechnical methods are used to install degradation zones directly in the contaminated soil and electro-osmosis is utilized to move the contaminants back and forth through those zones until the treatment is completed. The Topical Report for Task #3.2 summarizes the modeling and dechlorination research conducted by General Electric Research and Development [April 1998, 74 pages]. Download or view at

<http://clu-in.org/download/rtdf/lasagna/topic3-2.pdf>.

**Development of an Integrated *In-Situ* Remediation Technology: Draft Topical Report for Task #3.2 entitled, Iron Dechlorination Studies.** This document was developed by the Lasagna Partnership of the Remediation Technologies Development Forum (RTDF). The technology is an integrated *in situ* treatment in which established geotechnical methods are used to install degradation zones directly in the contaminated soil and electro-osmosis is utilized to move the contaminants back and forth through those zones until the treatment is completed. The Topical Report for Task #3.2 summarizes the modeling and dechlorination research conducted by Monsanto Company [April 1998, 28 pages]. Download or view at

<http://clu-in.org/download/rtdf/lasagna/topic3-3.pdf>.

**RTDF Update (EPA 542-F-98-007).** This EPA periodical is a progress report on the Remediation Technologies Development Forum and its Action Teams. The RTDF is a consortium of partners from industry, government and academia who are working together to develop safer, more effective and less costly treatment technologies [May 1998, 6 pages]. Download or view at

<http://clu-in.org/techpubs.htm>. Hard copies available from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Compendium of State/Territorial Brownfields Program Funding.** This publication was developed by the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) Voluntary Cleanup Task Force. This compendium provides States/Territories with examples of innovative and creative uses for

available U.S. EPA funding (*i.e.*, Preliminary Assessment Grants, CORE Cooperative Agreements, and Supplemental Voluntary Cleanup Cooperative Agreements) to develop and maintain effective Voluntary Cleanup and Brownfields Programs [May 1998, 78 pages]. View or download at <http://www.astswmo.org/Publications/bookshelf.htm>.

**AIR Force Small Business Innovation Research (SBIR).** The U.S. Air Force announced that its SBIR Program topics for FY99 will be released in mid-June. The Air Force is pre-releasing its topics before the Department of Defense's Pre-Solicitation in order to provide small businesses the maximum amount of time to ask technical questions. A copy of the SBIR topics may also be obtained by contacting AFRL at (937) 656-9066.

## CONFERENCES AND SYMPOSIA

**Innovative Technologies for Site Assessment and Monitoring Workshop, San Francisco area, CA, July 28.** This workshop is intended to bring together for hands on training state regulators, engineering contractors, site owners and individuals involved in Brownfield's cleanups. Participants will receive valuable information on the operation, cost, logistics and data acceptance issues. Limited travel assistance available for state and city employees. Contact On-Site Insights, NHSRC/NJIT, 17 Glen Road, Wayland, MA 01778 or Dr. Andrea Kinney at (508) 358-3532, FAX (508) 358-5091 or email to [andreakinney@worldnet.att.net](mailto:andreakinney@worldnet.att.net).

**Third Tri-Service Environmental Technology Workshop, San Diego, California, August 18-20, 1998.** The Third Tri-Service Environmental Technology Workshop would like to present a call for papers for this year's workshop. This year's theme is "Environmental Technology: Preserving the Balance." You may also contact Ms. Sonya L. Herrin; Phone: (757) 865-7604; Fax (757) 865-8721; E-mail: [herrin@stcnet.com](mailto:herrin@stcnet.com).

**U.S. Army Corps of Engineers Environmental Programs Contracting Opportunities.** The Corps provides comprehensive environmental services to the Army, DoD, Environmental Protection Agency (EPA), Department of Energy (DOE), and other federal agencies. The majority of the Architect-Engineer (A-E) and construction services utilized by the Corps of Engineers are acquired by contract with private firms. The USACE identifies contracting opportunities on its web site. Visit <http://www.mrd.usace.army.mil/>.

If you have questions about TechDirect, please contact Jeff Heimerman at [heimerman.jeff@epamail.epa.gov](mailto:heimerman.jeff@epamail.epa.gov) or (703) 603-7191.

