

## Message #20: October, 1998

Since September 1, TechDirect gained 227 new subscribers for a total of 5014. 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.

### ***EPA GUIDANCE***

**EPA's Strategy for Enforcement of Regulatory Requirements Applicable to Underground Storage Tank (UST) Facilities** (Memorandum and Strategy Paper). This memorandum and strategy were issued jointly by EPA's Office of Enforcement and Compliance Assistance and the Office of Underground Storage Tanks. They describe EPA's strategy for enforcement of the underground storage tank requirements [August 1998, Memo - 2 pages, Strategy - 4 pages]. View or download at <http://www.epa.gov/oeca/ore/rcra/cmp/081098.pdf>. For hard copies, contact the RCRA/UST Hotline at (800) 424-9346 or (703) 412-9810.

### ***DOCUMENTS***

**A Citizen's Guide to Phytoremediation** (EPA 542-F-98-011). This technology fact sheet provides an overview of phytoremediation, describes the mechanisms by which it can remove or treat contaminants and identifies sites where phytoremediation is being demonstrated [August 1998, 6 pages]. View or download at <http://clu-in.org/techpubs.htm>. For hard copies, contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Evaluation of Subsurface Engineered Barriers at Waste Sites** (EPA 542-R-98-005). This report provides a national retrospective analysis of barrier field performance, as well as information that may be useful in developing guidance on the use and evaluation of barrier systems. The report focuses on vertical barriers; evaluation of caps was a secondary objective [August 1998, 136 pages]. Will

be able to view or download at <http://clu-in.org/techpubs.htm> within two weeks. For hard copies, contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Innovations in Site Characterization - Case Study: Hanscom Air Force Base** (EPA 542-R-98-006). This case study was developed by the U.S. EPA Technology Innovation Office. This is a condensation of a much larger report titled, A Dynamic Investigation: Adaptive Sampling and Analysis Program for Operable Unit 1 at Hanscom Air Force Base, Bedford Massachusetts which can be viewed at <http://www.clu-in.org/video/hanscom.htm>. This is the first in a series of case studies to document the cost and performance information for innovative tools that support less costly and more representative site characterization. Download at <http://clu-in.org/techpubs.htm>. For hard copies, contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Field Sampling and Analysis Technologies Matrix and Reference Guide** (EPA 542-B-98-002). This document was advertised in the June TechDirect message. It is now available in hard copy. Contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**Ground Water Currents** (EPA 542-N-98-008). This periodic newsletter highlights technologies for groundwater cleanup. The current issue features the results of a five-year study on natural attenuation in wetlands at Aberdeen Proving Grounds, a new method for enhancing pump and treat remediation, and improved techniques for measure vadose zone DNAPL contamination. Download at <http://clu-in.org/techpubs.htm>. For hard copies, contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

## ***CONFERENCES AND SYMPOSIA***

**1998 Hazardous Waste Technology Exposition and Conference**, San Diego, November 3-5. The Interstate Technology Regulatory Cooperation (ITRC) workgroup, a coalition of 26 states, is hosting a conference on state acceptance of innovative technologies. This conference will feature presentations and roundtable discussions regarding state information needs for technology consideration. The technology areas and topics that will be discussed include phytoremediation, in situ oxidation, in situ bioremediation, recirculating wells, UXO, DNAPLs, Radwaste, and pesticides. Companies that offer these technologies or deal with these contamination problems are invited to exhibit and participate in roundtable discussions with the state regulators. The deadline for

registering for exhibit space is September 1. The conference agenda will be available by October 1. For more information, contact Patricia Reyes [[patricia\\_reyes@bah.com](mailto:patricia_reyes@bah.com)] or Courtney Zamora [[courtney\\_zamora@bah.com](mailto:courtney_zamora@bah.com)]. Both may be reached at (703) 902-3373.

**Advances in Innovative Groundwater Remediation**, December 15, Atlanta, GA. This free event, sponsored by the Ground Water Remediation Technologies Analysis Center (GWRTAC), will be held at the Downtown Atlanta Marriott Marquis Hotel. The one day seminar will include presentations from practitioners involved in phytoremediation, treatment walls, in situ flushing, thermal stripping, in situ chemical oxidation, remediation of metals, and bioremediation. For an agenda and Registration information, contact Karen Devlin at [Karen.Devlin@philip-serv.com](mailto:Karen.Devlin@philip-serv.com) or (215) 643-5466.

**In Situ Thermal Processes Seminar**, December 16, Atlanta, GA. This free event is sponsored by the U.S. EPA Technology Innovation Office and will be collocated at the Downtown Atlanta Marriott Marquis Hotel with the December 15 GWRTAC Groundwater seminar mentioned above. This one day seminar will focus on the fundamental principles, design considerations, limitations, and case studies for five in situ thermal processes. The technologies to be addressed include Dynamic Underground Stripping, Electrical Conductive Heating, Radio Frequency Heating, Six-Phase Electrical Heating, and In Situ Vitrification. Note...you may register for the December 15 and/or 16 event by contacting Karen Devlin at the address listed above. More information on these events will be available in two weeks at <http://clu-in.org>.

**International Technology Expo '99**, April 20-21, Atlantic City, NJ - Call For Papers. This international conference is sponsored by the New Jersey Department of Environmental Protection and several partners. This event is aimed at establishing new domestic and international partnerships to promote the use of innovative environmental technologies. A call for papers and additional information is posted at <http://www.state.nj.us/dep/srp>. For more information call (609) 292-0952.

## ***OTHER ITEMS***

**SBIR Reminder!** The EPA Small Business Innovation Research (SBIR) program announced that its 1999 grant program solicitation is open from September 17 until November 19. They are seeking research proposals on advanced topics in science and engineering especially where the research may lead to technological innovation. For a complete list of topic interest areas and instructions to apply

for an EPA SBIR grant, see <http://es.epa.gov/ncerga/sbir/fy99sbir.html>.

**Y2K War Stories.** If anyone has any examples of potential Y2K related vulnerabilities associated with remediation systems, please email me at [heimerman.jeff@epa.gov](mailto:heimerman.jeff@epa.gov). I am trying to assemble real life scenarios of remediation system disruptions or failures that may occur as a result of Y2K. We plan to add these to the growing list of examples were archived at <http://clu-in.org/y2k.htm>. We are doing this as a public service to raise awareness of potential vulnerabilities in the hazardous waste cleanup community.

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

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<http://clu-in.org/techdrct/td1098.htm>  
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