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**An:** TECHDIRECT <techdirect@lists.epa.gov>  
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Welcome to TechDirect. Since the January 1 message, TechDirect gained 257 new subscribers for a total of 15,755. If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing to TechDirect may do so on CLU-IN at <http://clu-in.org/techdirect>. All previous issues of TechDirect are archived there.

The TechDirect listserv migrated to a new supporting software program called Lyris. This issue of TechDirect is the first to be sent using Lyris. It should be seamless and unnoticeable to subscribers. If you encounter any problems receiving or reading the content, please let me know via my email address listed at the bottom of this issue.

Mention of non-EPA documents or presentations does not constitute a U.S. EPA endorsement of their contents, only an acknowledgment that they exist and may be relevant to the TechDirect audience.

#### Solicitations/Competitions

EPA RFA. This Request for Applications seeks a non-profit organization or educational institution to enter into a cooperative agreement to jointly sponsor an international conference on the remediation of contaminated ground water in fractured rock with EPA's Technology Innovation Office (TIO). The application can be viewed and downloaded from the PDF file below. Any questions concerning this application should be posted in the Question and Answer Area. The question and answer will be available for public view. For More Information, see <http://clu-in.org/fracrock/proposal/rfa.pdf>.

FY 2004 Environmental Security Technology Certification Program Solicitation - The solicitation for the FY 2004 ESTCP program was released on January 9th, 2003. There are three distinct avenues to submit proposals and different due dates as noted below, depending on your type of organization:  
DoD Phase I proposals are due April 10, 2003  
Non-DoD Federal pre-proposals are due March 13, 2003  
Pre-proposals from the non-federal sector are due March 13, 2003.  
Proposal instructions and other related information, is available at <http://www.estcp.org/opportunities/solicitations/>.

ETC2 Environmental Incubator Business Plan Competition. Have your business plan analyzed by experts. The National Environmental Technology (NET) Incubator, with support from Battelle's Environmental Technology Commercialization Center

(ETC2) and the Energy and Environmental Capital Network (ECN), is presenting its second Annual Business Plan Competition in April 2003. First prize will be \$10,000 and an expense-paid trip to present the business plan to the equity investors at a national forum presented by the Energy and Environmental Capital Network. Details of the Business Plan Competition and application forms can be found at

<http://www.centralstate.edu/netincubator> .

ETC2, a U.S. EPA technology transfer center managed by Battelle, makes EPA-developed technologies and expertise available to the private sector. For more information, contact (513) 362-2600 or visit <http://www.etc2.org> .

#### Internet Seminars

Vapor Intrusion Guidance, February 11 and 12. In the December TechDirect we highlighted the release of EPA's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway From Groundwater and Soils (RCRA-2002-033). This draft guidance is currently in an open comment period. In this seminar, EPA staff will present the contents of the document and discuss the main issues for which the Agency is seeking comment. The seminar will be offered on February 11 and REPEATED on February 12. There is no need to sign up for both. For more information and to register, see <http://clu-in.org/studio> .

#### Documents/Resources

Annual Status Report Remediation Database. The U.S. EPA Technology Innovation Office released a searchable database of treatment technology applications for soil, groundwater, and other media at Superfund sites. It documents the status, as of the summer of 2000, of treatment technology applications at sites. The information in this database was gathered from Superfund decision documents and project managers at Superfund remedial and removal sites. It contains information about source control technologies (addressing soil, sludge, sediment, and other solid-matrix wastes), innovative (in situ) groundwater treatment technologies, and subsurface barrier groundwater containment technologies (vertical engineered barriers). The database is searchable by site name, site identification number (CERCLIS ID), state, technology type, contaminant, and media. View the database at <http://www.epa.gov/tio/technologies/> .

Innovative Remediation Technologies: Field-Scale Demonstration Project Database and Report. EPA's Technology Innovation Office has added new project data to its online, searchable database of on-going and completed field-scale demonstrations of innovative hazardous waste remediation technologies. Information on 741 projects in the database can now be searched by media, technology type, contaminant type, and demonstration date. The database helps users in the remediation community locate reports, reference materials, and contact information for demonstration projects that match their cleanup needs. The interface also allows users to submit information on

projects for inclusion in the database (after EPA review). Find the online database and a downloadable version of a report covering projects through June 2000 at <http://clu-in.org/products/nairt> .

Conducting Contamination Assessment Work at Drycleaning Sites. This report was produced by the State Coalition for the Remediation of Drycleaners. It includes background information on drycleaning operations, planning and conducting site characterization, and a range of assessment technologies available. It also includes examples of the characterization approaches used by several SCRD states (January 2003, 52 pages). View or download at <http://www.drycleancoalition.org/pubs.cfm> .

Evaluation of Dredged Material Proposed for Placement in Island, Nearshore, or Upland Confined Disposal Facilities - Testing Manual (ERDC/EL - TR-03-01). This publication, aka The Upland Test Manual, was produced by the U.S Army Corps of Engineers. It provides technical guidance for evaluating potential contaminant migration pathways from confined disposal facilities (CDFs). A suite of evaluation procedures and laboratory test procedures has been developed to evaluate CDF contaminant pathways and is presented in detail in this manual (January 2003, 335 pages). View or download at <http://www.wes.army.mil/el/dots/guidance.html> .

ESTCP Cost and Performance Reports. The Defense Environmental Security Technology Certification Program (ESCTP) released four new cost and performance reports.

1. Tri-Service Site Characterization and Analysis Penetrometer System (SCAPS) Membrane Interface Probe (January 2002, 35 pages)  
<http://www.estcp.org/documents/techdocs/199603-MIP.pdf>
2. Cost & Performance Report for Multi-Site In Situ Air Sparging (December 2000, 42 pages)  
<http://www.estcp.org/documents/techdocs/199808.pdf>
3. Cost & Performance Report for Matched Filter Processor for Detection and Discrimination of Unexploded Ordnance (February 2002, 31 pages)  
<http://www.estcp.org/documents/techdocs/199918.pdf>
4. Cost & Performance Report for Low-Order, Underwater Detonation (June 2002, 29 pages)  
<http://www.estcp.org/documents/techdocs/200104.pdf>

Summary Report on Technical and Legal Barriers for the Introduction of Ex-Situ Biological Soil Treatment in the EU Member States. This report summarizes the main issues concerning implementation of biological soil treatment in general at EU level, as well at national and regional levels in some of the EU Member States. Many of the conclusions are not only applicable to biological remediation but to any treatment methods. The information, collected between 2000 and 2002, was abstracted from the various soils and waste and permit/license laws/acts, from literature and from interviews both with various authorities at EU, national, regional level and with the professionals performing the actual remediations in the field (August 2002, 36 pages). View or download at <http://clu-in.org/techpubs.htm> .

Technology News and Trends (EPA 542-N-03-001). This periodic newsletter is produced by the U.S. EPA Technology Innovation Office. This issue highlights pilot tests that inject various additives to remediate contaminated groundwater through in situ chemical oxidation, co-oxidation, and bioremediation. The issue includes articles using complexing sugar to remove DNAPLs, co-oxidation to remove DNAPLs, potassium permanganate for in-site oxidation, and an update on the state coalition for remediation of drycleaner sites (January 2003, 6 pages). View or download at <http://clu-in.org/techpubs.htm> .

Seeking Information!! Navy DNAPL Treatment Survey. The Naval Facilities Engineering Services Center (NFESC) is developing a decision matrix that compares and evaluates various dense, non-aqueous phase liquid (DNAPL) source removal technologies. This decision matrix will be developed through information compiled from a review of the literature, interviews with technology experts, and a survey on the application of DNAPL source remediation technologies at field sites. The objective of the survey is to collect information on the state of the science with regard to remediation of chlorinated solvent DNAPL source zones in groundwater. This survey has been structured to collect information on innovative and demonstrated in situ technologies (e.g., thermal, chemical oxidation, surfactant flushing, bioremediation, excavation, encapsulation, etc.) that have been tested or applied at DNAPL contaminated sites. The final report, including the results of the survey and the decision matrix, will be available to all survey participants. For more information, see [https://projects.geosyntec.com/navy\\_rocs/](https://projects.geosyntec.com/navy_rocs/) .

### Conferences and Symposia

ITRC Phytotechnologies Course, Raleigh, February 19-20. This two-day course provides scientific, engineering and regulatory information on how phytotechnologies are used in a variety of real world applications. The participant will learn advantages, limitations and uncertainties for a variety of situations. The curriculum includes an introduction to the science, case studies, hands-on group exercises, and an open discussion of the regulation of phytotechnologies. The training is intended to reduce or eliminate barriers to appropriate use of innovative treatment. For more information, see <http://www.itrcweb.org> .

Reminder!! International Applied Phytotechnologies Conference, Chicago, March 3-5. Environment Canada and EPA's Office of Research and Development and TIO are co-sponsoring a FREE conference on the state of science and engineering advances in phytotechnologies worldwide. The conference is designed to assist professionals in the regulatory community in determining feasibility of using phytotechnologies at contaminated sites, and explore designing, implementing, and monitoring site cleanups with plants. For agenda, logistics information and to register, see <http://www.epa.gov/ttbnrmrl> . For information on displaying a poster or exhibit or on becoming a

Conference Sponsor, contact Jordan Radin at (765) 496-2436 or [jradin@purdue.edu](mailto:jradin@purdue.edu) .

Third Annual Field Environmental Decision Support (FIELDS)/SADA Conference, Chicago, March 5-7. This conference, sponsored by the U.S. EPA, will provide training in the use of the FIELDS Tools and the SADA software. In addition, training and/or demonstrations will be given for Visual Sample Plan (VSP), FORMS II Lite, STORET, Query Manager (NOAA), and Argonne National Laboratory's Adaptive Sampling and Analysis Programs (ASAPs). Case studies will highlight projects that have used the FIELDS tools, SADA or other environmental decision support software. For agenda, registration, and logistics information, see <http://dts-32web.volpe.dot.gov/conference/fields.htm> .

Reminder!! Advancing Risk-Based, Scientifically Sound Approaches for Evaluation of Sediment Management Decisions, San Diego, April 8-10. Several Federal agencies are hosting a three-day workshop on the important biogeochemical and physical factors that modify the stability, mobility, and/or bioavailability of inorganic and organic contaminants in aquatic sediments; to explore the fate, effects and risks of sediment bound contaminants; to agree on general yet pragmatic guidelines for the assessment and management of contaminated sediments that may pose an unacceptable human health and/or environmental risk. For agenda and registration information, see <http://www.smwg.org/> .

NOTE: We prefer to concentrate mainly on new documents and the internet live events. However, we do support an area on CLU-IN where announcement of conferences and courses can be regularly posted. We invite sponsors to input information on their events at <http://clu-in.org/courses> . Likewise, readers may visit this area for news of upcoming events that might be of interest. It allows users to search events by location, topic, time period, etc.

If you have any questions regarding TechDirect, contact Jeff Heimerman at (703) 603-7191 or [heimerman.jeff@epa.gov](mailto:heimerman.jeff@epa.gov). Remember, you may subscribe, unsubscribe or change your subscription address at <http://clu-in.org/techdirect> any time night or day.

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