

TechDirect, March 1, 2009

Welcome to TechDirect! March signals the beginning of our 14th year delivering TechDirect. We have been very pleased (and somewhat surprised) at the continued and steady growth of our subscribers over the last 13 years. Since the February 1 message, TechDirect gained 301 new subscribers for a total of 32,953. If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing may do so on CLU-IN at <http://clu-in.org>. All previous issues of TechDirect are archived there. The TechDirect messages of the past can be searched by keyword or can be viewed as individual issues.

TechDirect's purpose is to identify new technical, policy and guidance resources related to the assessment and remediation of contaminated soil, sediments and ground water.

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.

> **CLU-IN Vendor Directory Available for Updates**

The CLU-IN Vendor Directory, available online at

<http://www.clu-in.org/vendor/vendorinfo/directory/> **as part of CLU-IN's Vendor and Developer Support area (online at <http://www.clu-in.org/vendor/>)**. The CLU-IN Vendor Directory is now accepting updates and additions from remediation and characterization technology vendors. Updates, additions and removal requests submitted by March 15, 2009 will be incorporated in the next quarterly revision of the directory scheduled to be completed by March 31, 2009. Technology Vendors are encouraged to use the CLU-IN Vendor and Developer Support area as a resource for other methods to promote their tools. Site owners, regulators, researchers, and other environmental professionals are encouraged to use the CLU-IN Vendor and Developer Support area as method to identify vendors and services to meet their remediation and characterization needs.

To update existing vendor information to this database. Please visit http://www.clu-in.org/vendor/vendorinfo/directory/usersearch/vendor_search.cfm?mode=1 or click links to update vendor information.

To add new vendor information to this database. Please visit http://www.clu-in.org/vendor/vendorinfo/directory/usersubmit/vendor_new.cfm or click links to submit new vendor information.

To remove vendor information from the database. Please send an email to balent.jean@epa.gov and include a statement in the body of the email with your company name and a request to be removed.

The information will be reviewed and included in the next round of updates to the vendor directory which typically occurs on a quarterly basis. If you have immediate questions, please contact Jean Balent (Balent.Jean@epa.gov, 703-603-9924) or Michael Adam, (Adam.Michael@epa.gov, 703-603-9915).

> Upcoming Live Internet Seminars

Tackling the Carbon Footprint at Pump and Treat Projects: A Case Study in Energy Efficiency - March 10, 2009, 1:00PM-3:00PM EDT (17:00-19:00 GMT). With the goal of advancing knowledge in green remediation best practices, over the last year EPA and Massachusetts DEP have collaborated to develop an approach to reduce the energy usage and carbon footprint at an existing pump and treat system. This seminar presents the results of this work, including alternatives considered and the final proposal of using combined heat and power (CHP) to provide the necessary energy to power the system and to increase the efficiency of above-ground treatment components. For more information and to register, see <http://clu-in.org/live> .

Frequently Asked Questions Regarding Management of Chlorinated Solvents in Soils and Groundwater - March 24, 2009, 11:00AM-1:00PM EDT (15:00-17:00 GMT). This seminar provides a summary of a recently-compiled document on Frequently Asked Questions (FAQs) on chlorinated solvent site management. The FAQ document addresses 25 key questions, providing a concise overview of current knowledge regarding management of subsurface chlorinated solvent releases. The document is intended to help state regulators, federal regulators, consultants, DoD staff and community members make better site management decisions. ESTCP hopes the document contributes to better use of resources, more effective remediation and risk management, and more productive cooperation between the parties involved in site cleanups. For more information and to register, see <http://clu-in.org/live> .

ITRC Performance-based Environmental Management - March 24, 2009, 2:00PM-4:15PM EDT (18:00-20:15 GMT). Performance-based environmental management (PBEM) is a strategic, goal-oriented methodology that is implemented through effective planning and decision logic to reach a desired end state of site cleanup. The goal of PBEM is to be protective of human health and the environment while efficiently implementing appropriate streamlined cleanup processes. This ITRC training presents an overview of what PBEM is, explains how and when to implement it, and describes the issues that regulators are concerned about throughout PBEM's implementation. Case studies will be presented to illustrate successful PBEM projects. The course is valuable not only because PBEM is being proposed and implemented at many federal and private sites throughout the country, but also because PBEM provides an opportunity to enhance all site remediation. For more information and to register, see <http://www.itrcweb.org> Or <http://clu-in.org/live> .

EPA's Electronic Report on the Environment - Finding, Understanding and Using National and Regional Environmental Indicators - April 16, 2009, 11:00AM-1:00PM EDT (15:00-17:00 GMT). This webcast will introduce the audience to EPA's Report on the Environment (ROE) project and the Electronic Report on the Environment (eROE) web site (www.epa.gov/roe) as a valuable resource in understanding what we know - and don't know - about trends in air, water, land, human health and ecologic condition in the United States. For more information and to register, see <http://clu-in.org/live> .

> New Documents and Web Resources

Ecological Revitalization: Turning Contaminated Properties Into Community Assets (EPA 542-R-08-003). This document provides technical information to assist property managers and other stakeholders better understand, coordinate, and conduct

ecological revitalization at contaminated properties during cleanup. ♦ Specifically, this document presents general planning and process considerations for ecological revitalization and provides technical considerations for implementing ecological revitalization of wetlands, streams, and terrestrial ecosystems during cleanup. This document also highlights EPA's initiatives and resources that are available, and presents numerous site-specific examples and case studies where ecological revitalization has occurred (February 2009, 83 pages). View or download at <http://clu-in.org/techpubs.htm> .

A Guide for Assessing Biodegradation and Source Identification of Organic Groundwater Contaminants Using Compound Specific Isotope Analysis (CSIA) (EPA 600-R-08-148). When organic contaminants are degraded in the environment, the ratio of stable isotopes will often change, and the extent of degradation can be recognized and predicted from the change in the ratio of stable isotopes. Recent advances in analytical chemistry make it possible to perform Compound Specific Isotope Analysis (CSIA) on dissolved organic contaminants such as chlorinated solvents, aromatic petroleum hydrocarbons, and fuel oxygenates, at concentrations in water that are near their regulatory standards. The traditional approach for monitoring of concentrations of contaminants at sites often does not offer adequate information about the processes that are responsible for removal of the contaminants. Stable isotope analyses can provide an in-depth understanding of biodegradation or abiotic transformation processes in contaminated aquifers. Because CSIA is a new approach, there are no widely accepted standards for accuracy, precision and sensitivity, and no established approaches to document accuracy, precision, sensitivity and representativeness. This Guide provides general recommendations on good practice for sampling, for measurement, for data evaluation and for interpretation in CSIA (December 2008, 82 pages). View or download at <http://www.epa.gov/ada/pubs/reports/600r08148/600r08148.pdf> .

Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (EPA 540-R-08-005). This guidance will help increase national consistency, and improve communication and understanding about the nature of validation procedures conducted on laboratory analytical data developed for Superfund use (January 2009, 29 pages). View or download at <http://www.epa.gov/superfund/policy/pdfs/EPA-540-R-08-005.pdf> .

EUGRIS Corner. More than 73 resources, events projects and news items were added to EUGRIS 1 - 24 February, 2009. These can be viewed at <http://www.eugris.info/whatsnew.asp>. Then select the appropriate month and year for the updates in which you are interested. The following report was featured on EUGRIS:

Abandoned Mines and the Water Environment (SC030136/SR41). This report reviews pollution of rivers and groundwater by abandoned coal and metal mines in the UK, and the work being done to manage this problem (August 2008, 40 pages). View or download at <http://publications.environment-agency.gov.uk/pdf/SCHO0508BNZS-e-e.pdf> .

Assessment of Metal Mining-Contaminated River Sediments in England and Wales (SC030136/SR4). The UK Environment Agency has published a report on contamination of river sediments and flood plain soils by metal mines. The report recommends the setting of new sediment and soil quality guidelines, proposes a risk-based approach to investigating sediments and floodplain soils in catchments affected by mining activities, increased monitoring of these contaminated sediments, and strategies to manage and clean-up mine-contaminated areas (November 2008, 64 pages). View or download at <http://publications.environment-agency.gov.uk/pdf/SCHO1108BOZD-e-e.pdf> .

> Conferences and Symposia

US-Mexico Border 2012 Tire Group Meeting /Reunion del Grupo de Llantas de Frontera 2012, Rio Rico, Arizona, March 12-13, 2009. The purpose of the meeting is to provide a wealth of information and discussion of solutions to the U.S.-Mexico Border scrap tire problem. Sessions will focus on emerging market trends, laws and regulations related to scrap tire management, and scrap tire program development. Also learn about successful scrap tire programs and how they became successful. Remote participants will have the opportunity to collaborate with other meeting attendees in the prioritization of new scrap tire projects, the identification of scrap tire piles, and reporting out on new scrap tire projects. For more information and to register, see <http://clu-in.org/meetings/border2012> .

Intersol 2009, Paris, France, March 24-26, 2009. Intersol 2009 is one of the premier technical conferences and trade shows dedicated solely to contaminated soil, site and groundwater remediation in Europe. Attendees from 30 countries are expected to attend this highly focused event. The conference is being organized in collaboration with the French Ministries of Environment, Ministry of Industry, the French Soil Remediation Association, UPDS, the French Environmental Engineering and Consultant Professional Association, L'UCIE, the European Commission, the United Nations and the U.S. Embassy Paris, France. Topics covered and sectors represented will include contaminated soils and groundwater remediation, green remediation, land use planning, protection of water resources and management of contaminated sites and human and environmental risks evaluation. For more information and to register, see <http://www.intersol.fr/> .

Vapor Intrusion Pathway: A Practical Guideline: ITRC 2-day Classroom Training, Oklahoma City, OK, April 6-7, 2009. Led by internationally recognized experts, this 2-day ITRC classroom training will enable you to learn the latest strategies to conduct site screening and investigations; determine what tools are appropriate to collect quality data and evaluate the results; apply multiple lines of evidence to ensure quality decision-making; build solutions for VI issues through understanding of mitigation options; and network with environmental professionals dealing with this interdisciplinary and complex pathway. Interactive learning with hands-on exhibits, classroom exercises, and frequent Q&A sessions will reinforce these course objectives and contribute to a practical understanding of this difficult pathway. For more information and to register, see <http://www.itrcweb.org/crt.asp> or <http://www.regonline.com/ITRC-VI-OK> .

2009 Conference on Design and Construction Issues at Hazardous Waste Sites, Philadelphia, PA, April 13-15, 2009. The conference, hosted by the EPA and the US Army Corps of Engineers, will provide a forum for discussion among professionals from the private and public sectors regarding design and construction issues at hazardous waste sites, including effective methods, lessons learned, and application of technologies. The conference is free, but registration is required. For more information and to register, see <https://superfund.usace.army.mil/2009DCHWS> .

NOTE: For TechDirect, 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. Currently there are 188 conferences and courses featured. 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. Remember, you may subscribe, unsubscribe or change your subscription address at <http://clu-in.org/techdirect> at any time night or day.

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