

TechDirect, July 1, 2012

Welcome to TechDirect! Since the June 1 message, TechDirect gained 171 new subscribers for a total of 32,000. 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/techdirect> . 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.

> Upcoming Live Internet Seminars

Brownfields Grants Overview - July 12, 2012, 4:00PM-5:00PM EDT (20:00-21:00 GMT). This webinar will present an overview of the EPA's Brownfield Assessment, Cleanup and Revolving Loan program. Grant guidelines for FY13 are expected to be published at the end of summer so taking time now to learn about the program will be especially useful to new applicants. The presenters will go over: basics of the brownfield program; the three types of grants; who is eligible to apply; and what projects the grants cover. This webinar is meant as a primer for the subsequent webinars we'll be hosting in August where we go into much more details for each of the three grants. Those webinars will be held on August 16 - Assessments, August 23 - Cleanup, and August 30 - Revolving Loan Fund. Audience: Any potential brownfield applicant which includes any governmental entity, nonprofits and tribes. For more information and to register, see <http://clu-in.org/live> .

ITRC Green & Sustainable Remediation - July 19, 2012, 11:00AM-1:15PM EDT (15:00-17:15 GMT). Many state and federal agencies are just beginning to assess and apply green and sustainable remediation (GSR) into their regulatory programs. This training provides background on GSR concepts, a scalable and flexible framework and metrics, tools and resources to conduct GSR evaluations on remedial projects. The training is based on the ITRC's Technical & Regulatory Guidance Document: Green and Sustainable Remediation: A Practical Framework (GSR-2, 2011) as well as ITRC's Overview Document, Green and Sustainable Remediation: State of the Science and Practice (GSR-1, 2011). Beyond basic GSR principles and definitions, participants will learn the potential benefits of incorporating GSR into their projects; when and how to incorporate GSR within a project's life cycle; and how to perform a GSR evaluation using appropriate tools. In addition, a variety of case studies will demonstrate the application of GSR and the results. The training course provides an important primer for both organizations initiating GSR programs as well as those organizations seeking to incorporate GSR considerations into existing regulatory guidance. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/live> .

ITRC Integrated DNAPL Site Strategy - July 24, 2012, 2:00PM-4:15PM EDT (18:00-20:15 GMT). The ITRC Integrated Dense Nonaqueous Phase Liquid Site Strategy (IDSS-1, 2011) technical and regulatory guidance document will assist site managers in development of an integrated site remedial strategy. This course

highlights five important features of an IDSS including: a conceptual site model (CSM) that is based on reliable characterization and an understanding of the subsurface conditions that control contaminant transport, reactivity, and distribution; remedial objectives and performance metrics that are clear, concise, and measurable; treatment technologies applied to optimize performance and take advantage of potential synergistic effects; monitoring based on interim and final cleanup objectives, the selected treatment technology and approach, and remedial performance goals; and reevaluating the strategy repeatedly and even modifying the approach when objectives are not being met or when alternative methods offer similar or better outcomes at lower cost. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/live>.

ITRC Project Risk Management for Site Remediation - July 26, 2012, 11:00AM-1:15PM EDT (15:00-17:15 GMT). Remediation Risk Management (RRM) is a course of action through which all risks related to the remediation processes (site investigations, remedy selection, execution, and completion) are holistically addressed in order to maximize the certainty in the cleanup process to protect human health and the environment. Remediation decisions to achieve such a goal should be made based on threshold criteria on human health and ecological risks, while considering all the other potential project risks. Through this training course and associated ITRC Technical and Regulatory Guidance Document: Project Risk Management for Site Remediation (RRM-1, 2011), the ITRC RRM team presents tools and processes that can help the site remediation practitioner anticipate, plan for, and mitigate many of the most common obstacles to a successful site remediation project. Examples of project risks include remediation technology feasibility risks; remedy selection risks; remedy construction, operation and monitoring risks; remedy performance and operations risks; environmental impacts of systems during their operation; worker safety risk, human health and ecological impacts due to remedy operation; as well as costs and schedules risks including funding and contracting issues. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/live>.

In-Situ Microcosm Array, A New Tool for In Situ Remediation Tests - August 15, 2012, 2:00PM-4:00PM EDT (18:00-20:00 GMT). In this webinar, we will introduce a new technology, the In-Situ Microcosm Array (ISMA), for conducting multiple treatability studies in saturated subsurface environments (in situ) at the same time, in the same well. Participants will come away with an understanding of the needs and challenges of treatability studies for in situ remediation, of how the ISMA works, how it can address pertinent needs, and what kind of data are generated using this innovative diagnostic downhole device for remedial design. For more information and to register, see <http://clu-in.org/live>.

> New Documents and Web Resources

New Emerging Contaminants Website. The U.S. EPA Federal Facilities Restoration and Reuse Office has developed a new Emerging Contaminants site with updated versions of existing technical and emerging contaminant fact sheets and a new fact sheet for Perfluorooctane sulfonate (PFOS) and Perfluorooctanoic acid (PFOA). View and use at http://www.epa.gov/fedfac/documents/emerging_contaminants.htm.

Technology Innovation News Survey Corner. The Technology Innovation News Survey contains market/commercialization information; reports on demonstrations, feasibility studies and research; and other news relevant to the hazardous waste community interested in technology development. Recent issues, complete archives, and subscription information is available at <http://clu-in.org/products/tins/>. The following resources were included in recent issues:

- Investigating Rare Earth Element Mine Development in EPA Region 8 and Potential Environmental Impacts
- Report on the 2010 U.S. Environmental Protection Agency (EPA) Decontamination Research and Development Conference
- Report on the 2011 Workshop on Chemical-Biological-Radiological Disposal in Landfills
- EPA's Incident Waste Assessment & Tonnage Estimator (I-Waste)
- Soil Desiccation Techniques
- Treatability Study for Edible Oil Deployment for Enhanced CVOC Attenuation for T-Area, Savannah River Site
- Evaluation of Modeling for Groundwater Flow and Tetrachloroethylene Transport in the Milford-Souhegan Glacial-Drift Aquifer at the Savage Municipal Well Superfund Site, Milford, New Hampshire, 2011
- Microbial Mineralization of cis-Dichloroethene and Vinyl Chloride as a Component of Natural Attenuation of Chloroethene Contaminants under Conditions Identified in the Field as Anoxic

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 14 resources, events, projects and news items were added to EUGRIS in June 2012. 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 resource was posted on EUGRIS:

Winners of the NICOLE Technology Award 2012 "Innovative solutions for soil monitoring" Announced. The Network for Industrially Contaminated Land in Europe (NICOLE) launched its 2012 Technology Award on "Innovative Solutions for Soil Monitoring" with the aim of stimulating engineers and scientists to submit technical innovations that can contribute to an improved practice for contaminated land monitoring and verification of remediation performance. The three winning entries received their prizes on 14 June 2012 at NICOLE's 2012 spring workshop in Baden-Baden, Germany. View winners at <http://www.nicole.org/news/DisplayNewsItem.asp?NewsID=815&Listing=1> .

> Conferences and Symposia

Training Opportunities for Small and Disadvantaged Businesses (SDBs). The U.S. EPA Technology Innovation and Field Services Division (TIFSD) is offering training that is designed to build the technical capacity of SDBs in the site characterization and remediation field. The training is part of an exciting new initiative designed to build the technical capacity of SDBs as they compete for environmental cleanup jobs in a greener workforce. The following courses are scheduled to be offered in 2012: Groundwater High-Resolution Site Characterization, August 7-8 in Boston, MA (<http://trainex.org/HRSC>); Best Management Practices for Site Assessment, Remediation, and Greener Cleanups, August 13 in Denver, CO (<http://trainex.org/BMP-SARGC>); and Triad Training for Practitioners, August 14-16 in Denver, CO (<http://trainex.org/TriadPractitioners>). There are no tuition costs for these courses. Other environmental professionals who may find these courses of interest include EPA, federal, state, and tribal technical project managers and stakeholders involved in the cleanup and reuse of hazardous waste sites. For additional information on this initiative, visit <http://clu-in.org/smallbusiness> .

Facility Decommissioning Training Course, Deep River, Ontario, July 17-19, 2012. The purpose of this course is to provide information on the basic steps in the decommissioning process and impart lessons learned from past experiences in decommissioning. In this manner, elements learned at this training course will assist in

decision-making, planning, and implementation associated with the decommissioning of various types of nuclear facilities. Moreover, a major objective of this training course is to demonstrate the need for early and complete project planning to achieve safe and cost-effective decommissioning of research reactors and other small nuclear installations. For more information and to register, see <http://www.dd.anl.gov/ddtraining/> .

The Resource Conservation and Recovery Act (RCRA): Cradle to Grave, July 19, 2012, 12:00PM-1:30PM EDT (16:00-17:30 GMT). What does it really mean to manage waste from "cradle to grave"? Join Pete Raack to learn how this important, cross-cutting regulatory program manages the toxic refuse of a great consumer society. The target audience for this live webinar presentation is federal employees. For more information and to register, see <http://www.clu-in.org/neti120719> .

An Overview of CERCLA - Cleaning Up America's Hazardous Waste Sites, July 31, 2012, 11:30AM-1:00PM EDT (15:30-17:00 GMT). Join OSRE's Deputy Director of the Regional Support Division, Karin Leff, for an introduction to EPA's major site-cleanup statute. The target audience for this live webinar presentation is federal employees, state employees, local government employees, tribal employees, attorneys, and inspectors. For more information and to register, see <http://www.clu-in.org/neti120731> .

LNAPLs: Science, Management, and Technology ITRC 2-day Classroom Training, Novi, MI, October 16-17, 2012. Led by internationally recognized experts, this 2-day ITRC classroom training will enable you to develop and apply an LNAPL Conceptual Site Model (LCSM), understand and assess LNAPL subsurface behavior, develop and justify LNAPL remedial objectives including maximum extent practicable considerations, select appropriate LNAPL remedial technologies and measure progress, and use ITRC's science-based LNAPL guidance to efficiently move sites to closure. Interactive learning with classroom exercises and Q&A sessions will reinforce these course learning objectives. For more information and to register, see <http://www.itrcweb.org/crt.asp> .

Call for Ideas!! National Brownfields Conference, Atlanta, GA, May 15-17, 2013. Organizers of the 15th National Brownfields Conference want your ideas! The program for this annual conference is intended to motivate brownfields stakeholders to share knowledge and expertise and learn from each others' experiences. Venues for over 100 educational sessions include panel and plenary presentations, discussion-based roundtables and town hall meetings, business development opportunities such as the Economic Redevelopment Forum and exhibit hall, mobile workshops, and redevelopment walking tours. Abstracts are due by August 3, 2012. For more information and to submit an abstract, see <http://www.brownfieldsconference.org> .

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. 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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