

TechDirect, March 1, 2008

Welcome to TechDirect! March signals the beginning of our 13th year delivering TechDirect. We have been very pleased (and somewhat surprised) at the continued and steady growth of our subscribers over the last 12 years. Since the February 1 message, TechDirect gained 224 new subscribers for a total of 30,252. 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.

> Upcoming Live Internet Seminars

ITRC Real-Time Measurement of Radionuclides in Soil - March 13. This training introduces state regulators, environmental consultants, site owners, and community stakeholders to ITRC's Technology Overview document: Real-Time Measurement of Radionuclides in Soil: Technology and Case Studies (RAD-4, 2006), created by ITRC's Radionuclides Team. This training provides information on the basics of real-time measurement systems, how the technologies and data are used, acceptance issues, and case studies. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/studio>.

ITRC Evaluating, Optimizing, or Ending Post-Closure Care at Municipal Solid Waste Landfills - March 18. This training, based on ITRC's Technical and Regulatory Guidance: Evaluating, Optimizing, or Ending Post-Closure Care at Municipal Solid Waste Landfills Based on Site-Specific Data Evaluations (ALT-4, 2006), describes a method to evaluate the performance of Post Closure Care at a landfill and determine when leachate recovery, landfill gas management, groundwater monitoring, and cap maintenance can be reduced or even ended based on threats (to human health and the environment) posed by the closed landfill. The training and document describe custodial care as those requirements the property owner must follow after post closure care has been ended. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/studio>.

ITRC Survey of Munitions Response Technologies - March 25. This training introduces Survey of Munitions Response Technologies (UXO-4, 2006), created by the ITRC's Unexploded Ordinance Team in partnership with the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP). The document provides an overview of the current status of commercially-available technologies in common usage for munitions response actions, and, where possible, assess and quantify their performance capabilities. This training course is intended for an intermediate to advanced audience.

and assumes an understanding of technologies and phases of munitions response. This training course focuses on the major take-home conclusions of the Survey of Munitions Response Technologies (UXO-4, 2006) and provides an understanding of the performance capabilities of available technologies under real-world site conditions. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/studio> .

ITRC Decontamination and Decommissioning of Radiologically-Contaminated Facilities - April 3. This training introduces ITRC's Technical/Regulatory Guidance, Decontamination and Decommissioning of Radiologically-Contaminated Facilities (RAD-5, 2008), created by ITRC's Radionuclides Team. The curriculum is composed of four modules: Introduction and Regulatory Basis for Decontamination and Decommissioning (D&D), Factors for Implementing D&D, Preliminary Remediation Goal (PRG) Calculators, and Case Studies and Lessons Learned. For more information and to register, see <http://www.itrcweb.org> or <http://clu-in.org/studio> .

> New Documents and Web Resources

Green Remediation Website. EPA's Office of Superfund Remediation and Technology Innovation has released a Green Remediation web site. The site explains the basic principles and objectives of green remediation, and outlines best practices for reducing the environmental footprint of contaminated site cleanup projects. Over coming months, the site will expand to describe more details on green remediation best practices, and serve as a clearinghouse for technical materials, decision-making tools, site-specific case studies illustrating green remediation implementation efforts, and information on green remediation related events and new information products. View and use at <http://clu-in.org/greenremediation/> .

Proceedings of the Nanotechnology for Site Remediation Workshop, Chicago, September 6-7, 2006 (EPA 905-K-07-001). In October 2004, the US EPA held a nanotechnology site remediation conference, with assistance from partner federal agency cosponsors. The 2004 conference was followed in 2006 with a 2-day national site remediation workshop, jointly sponsored by the EPA Region 5 (R5) and the EPA Office of Research and Development (ORD). This workshop is the subject of these Proceedings and targeted Superfund remedial project managers (RPMs) at the R5 offices in Chicago, Illinois. The workshop was attended by close to 100 participants. During the first day, the workshop focused on nanomaterials applications to remediate hazardous waste sites, whereas during the second day, the focus was on environmental implications of nanomaterials (December 2007, 51 pages). View or download at <http://www.epa.gov/osp/hstl/Nanotech%20Proceedings.pdf> .

Proceedings of the Desert Remedial Action Technologies (D-RAT) Workshop, Phoenix, October 2007. This workshop was sponsored by the US EPA and the Arizona Department of Environmental Quality. Desert environments in the southwestern United States and similar areas present a number of unique challenges to subsurface cleanup. Groundwater can be extremely deep and the presence of clays and fractured rock can reduce the effectiveness of some standard cleanup technologies. The goal of the workshop was to gather practitioners and others with remediation expertise in these desert environments and to present both lecture and poster presentations on their ideas for remediating soil and groundwater. The scope of the workshop was limited to sites with VOCs, perchlorate and chromium, as these contaminants present some of the greatest challenges for cleanup (December 2007, 27 pages). View or download at [http://www.epa.gov/osp/presentations/drat/D-RAT_Workshop_Proceedings_\(Oct_2-4_07\).pdf](http://www.epa.gov/osp/presentations/drat/D-RAT_Workshop_Proceedings_(Oct_2-4_07).pdf) .

Ground Water Issue Paper: Metal Attenuation Processes at Mining Sites (EPA 600-R-07-092). This report was published by the U.S. EPA Ground Water Forum and the National Risk Management Research Laboratory. The purpose of this Issue Paper is to provide scientists and engineers responsible for assessing remediation technologies with background information on MNA processes at mining-impacted sites. Some of the key issues concerning the application of natural attenuation for inorganic contaminants are discussed, such as the geochemical mechanisms responsible for attenuation, attenuation capacity, monitoring parameters, and evaluating whether attenuated metal and metalloid contaminants will remain immobile (October 2007, 13 pages). View or download at <http://www.epa.gov/ada/download/issue/600R07092.pdf> .

SERDP and ESTCP Expert Panel Workshop on Reducing the Uncertainty of DNAPL Source Zone Remediation. This report summarizes the results of a March 2006 workshop sponsored by the Department of Defense's (DoD) Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) that sought to determine the research, development, test, and evaluation (RDT&E) needs for reducing the uncertainty associated with dense nonaqueous phase liquid (DNAPL) source zone remediation at field sites (September 2006, 198 pages). View or download at <http://www.estcp.org/viewfile.cfm?Doc=DNAPLWorkshopReport%2Epdf> .

CLU-IN Site Tour. CLU-IN houses the latest detailed information on innovative site characterization, monitoring, and remediation approaches. In fact, CLU-IN has so many resources and services available that it can be hard for new visitors to quickly see all that it has to offer. The CLU-IN Site Tour briefly describes some of the CLU-IN resources that can make your job easier. Take the tour at <http://clu-in.org/tour/> .

New EPA Multimedia Portal. EPA recently launched its new web multimedia portal, a one-stop location for environmental video, audio/podcasts, and photography. The portal also includes interactive features such as "Ask EPA" and the Deputy Administrator's blog, "Flow of the River". Another feature called "EPA in Action" goes behind-the-scenes; following the diverse jobs performed by the EPA workforce and examines some of the most pressing environmental issues facing our nation today. Viewing video is integrated into the site using flash player, while photos of events and EPA work will be posted in a series of online galleries. Users may also subscribe to several podcast series, including CLU-IN's Internet Seminar archive podcasts. View and use at <http://www.epa.gov/multimedia> .

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 29 resources, events projects and news items were added to EUGRIS 1 - 27 February, 2008. 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:

Report of the NICOLE Workshop: Using Baselines in Liability Management - What Do Upcoming Directives Require of Us? Brussels, November 2007. The objective of this Network for Contaminated Land in Europe (NICOLE) workshop was to investigate what requirements which current and upcoming legislation will put on the site owner, the seller of a site and the buyer of a site. Sessions dealt with regulatory aspects, financial aspects and methodologies for dealing with the definition of baselines and for designing risk management approaches to meet those baselines. This report provides summaries of the papers given, along with conclusions based on points raised during the meeting, and comments from a number of delegates after the meeting (January 2008, 42 pages). View or download at <http://www.nicole.org/news/downloads/NICOLE%20Brussels%20WORKSHOP2.pdf> .

> Conferences and Symposia

2008 AFCEE Technology Transfer Workshop, San Antonio, TX, March 25-28. The 2008 AFCEE Technology Transfer Workshop, "Focus on the Goal - RIP by 2012," will bring together professionals from military services, industry, academia, local, state, and federal agencies to translate ideas, success stories, case histories, current trends, and technologies into solutions for environmental restoration. The three-day schedule, with a fourth day of optional short courses, includes over 100 technical presentations on a variety of topics, exhibitors showcasing their latest equipment, products, technology, and services, along with networking opportunities. For more information and to register, see <http://www.afcee.brooks.af.mil/products/techtrans/workshop/> .

Environmental Public Health Consequences of Clandestine Methamphetamine Laboratories, Commerce, CA, March 25 and Glendale, CA, March 26. While "behind the counter" restrictions on access to some ingredients has had a tempering effect on meth lab proliferation, the continued availability of reagents and the hazardous waste created in the manufacture of this drug raise concerns about exposure to responders and cleanup/re-occupancy procedures. This 1-day course will provide awareness-level training for many aspects of the methamphetamine problem. Acute and chronic health effects of methamphetamine and its illicit manufacture from medical, social, and legal perspectives will be covered. This course will also address the special considerations for the exposure of children to some of the by-products of methamphetamine manufacture. The March 26th offering is a half-day course geared specifically for first responders. For more information and to register, see <http://www.trainex.org/methlab> .

2008 Conference on Design and Construction Issues at Hazardous Waste Sites, Philadelphia, April 24-25. This conference is hosted by the USEPA and the US Army Corps of Engineers. It will provide a forum for discussion among professionals from the private and public sectors regarding design and construction issues at hazardous waste sites including current approaches, management techniques, lessons learned, and application of technologies. For more information or to register please see the conference website at <https://superfund.usace.army.mil/2008DCHWS> .

Triad Investigations: New Approaches and Innovative Strategies, Amherst, MA, June 10-13. The June 2008 National Conference Triad Investigations: New Approaches and Innovative Strategies will feature three full days of conference presentations, Triad training sessions, specialized workshops, an interactive tool room, field equipment demonstrations, exhibitor hall, poster sessions, and an array of networking opportunities. The Conference will include training sessions, platform sessions, and specialized workshops focused on implementation of new tools, approaches, and strategies for hazardous waste site characterization, site remediation, and site redevelopment. The conference also will feature new tools and techniques for sampling and monitoring related to real-time information, continuous monitoring, and long-term monitoring for site closure and stewardship. Best practices and lessons learned will be emphasized throughout the training sessions, platform sessions, and workshops. For more information and to register, see <http://www.umass.edu/tei/conferences/triad.html> .

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 157 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/techdrct> at any time night or day.

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