U.S. ENVIRONMENTAL PROTECTION AGENCY

TechDirect, August 1, 2024

Welcome to TechDirect! Since the July 1 message, TechDirect gained 50 new subscribers for a total of 43,949. If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing may do so on CLU-IN at https://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 groundwater.

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

Investigation of State Approaches to Assessing Indoor Contaminated Dust - August 7, 2024, 3:30PM-5:00PM EDT (19:30-21:00 GMT). This webinar will describe the process and results from a research project concerning factors that could potentially attribute to adverse risk to human health due to contamination in dust indoors at Superfund sites. This project reviewed models and guidance on assessing protection of humans to exposures from contaminated dust indoor at sites issued or recommended by federal or state governments. For more information and to register, see https://www.clu-in.org/live.

Federal Facilities Online Academy: Role of Superfund Performance Measures - August 8, 2024, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This webinar is a two-hour course that will identify the role of performance measures, including environmental indicators, how to justify their status, and how to achieve an under-control status at Superfund sites. For more information and to register, see https://www.clu-in.org/live.

SERDP/ESTCP Webinar Improving Measurement Accuracy for PFAS Passive Samplers - August 8, 2024, 12:00PM-1:30PM EDT (16:00-17:30 GMT). Join SERDP and ESTCP for a webinar featuring DoD-funded research efforts to advance the accuracy and promote the use of passive samplers at PFAS-impacted sites. First, Dr. Upal Ghosh (University of Maryland, Baltimore County) will talk about the development of novel functionalized polymeric thin films to improve equilibrium passive sampling in surface water and groundwater. Second, Dr. Andrew Jackson (Texas Tech University) will discuss the performance of a high-resolution passive profiler relative to traditional monitoring methods from two field deployments. For more information and to register, see https://serdp-estcp.org/webinars.

PNNL's RemPlex and IAEA Webinar on Workforce Development in the

Environmental Remediation Field Seminar - August 13, 2024, 11:00AM-12:30PM EDT (15:00PM-16:30PM GMT). Access to a trained workforce is one of the biggest challenges facing implementation of technically sound, cost-effective, timely, and sustainable remediation projects. Panelists with direct experience as STEM education program managers, university-level educators, plus agency and industry leaders who are facing shortages of trained staff will discuss: establishing a pipeline of professional development from recruiting students through providing continuing education for the existing workforce; building multidisciplinary and diverse teams; and retaining the expertise and experience of senior practitioners through knowledge management. Presented by the Center for the Remediation of Complex Sites (RemPlex) with the International Atomic Energy Agency's Network of Environmental Remediation and NORM Management (ENVIRONET). For more information and to register, see https://www.pnnl.gov/remplex-seminars.

Underwater UXO a Look into SERDP and ESTCP's Current Research - August 15, 2024, 1:00PM-4:00PM EDT (17:00-20:00 GMT). As a result of past military training and weapons testing activities, unexploded ordnance (UXO) exist on sites designated for Base Realignment and Closure (BRAC) on Formerly Used Defense Sites (FUDS) and other closed ranges on active installations. Munitions ranging in size from 20-mm projectiles to 2000-pound bombs can be distributed on the surface or buried at these sites showing no visible evidence of their presence. SERDP and ESTCP successfully developed and demonstrated technologies that are now widely used to detect, classify and remediate UXO on land. This presentation will walk through several different developed technologies. For more information and to register, see https://www.clu-in.org/live.

PFAS Management Strategies in the United States, European Union and Australia - August 26, 2024, 10:00AM-12:00PM EDT (14:00-16:00 GMT). The purpose of this webinar is to provide information on PFAS management approaches in the US, EU, and Australia to encourage knowledge transfer and information exchange to increase the awareness of how PFAS is being managed in different parts of the world and what research is telling us about the destruction and disposal of PFAS. For more information and to register, see https://www.clu-in.org/live.

ITRC 1,4-Dioxane: Science, Characterization & Analysis, and Remediation Training - September 5, 2024, 1:00PM-3:15PM EST (17:00-19:15 GMT). In 2020, ITRC's 1,4-Dioxane team created multiple tools and documents that provide information to assist all interested stakeholders in understanding this contaminant and for making informed, educated decisions. Since the 1950s, 1,4-Dioxane has seen widespread use as a solvent stabilizer. The use of solvents through the 1980s suggests its presence at thousands of solvent sites in the US; however, it is not always a standard compound in typical analytical suites for hazardous waste sites, so it previously was overlooked. The U.S. EPA has classified 1,4-Dioxane as "likely to be carcinogenic to humans." Some states have devised health standards or regulatory guidelines for drinking water and groundwater standards; these are often sub-part per billion values. These low standards present challenges for analysis, characterization, and remediation of 1,4-Dioxane. This training is a series of six (6) modules. The six individual modules will be presented together live, and then archived on the ITRC 1,4-Dioxane training webpage for on demand listening. For more information and to register, see https://www.itrcweb.org or https://www.clu-in.org/live.

> New Documents and Web Resources

Research Brief 355: Environmental Factors Alter PFAS Removal by Specialized

Nanomaterials. Researchers funded by the NIEHS Superfund Research Program (SRP) revealed how characteristics of water treatment systems may alter the ability of novel nanomaterials to remove PFAS. Scientists should be aware of factors like water pH ' a measure of acidic or basic conditions ' or salt level to ensure that these nanomaterials effectively remove PFAS in aqueous environments, according to the team based at the State University of New York at Buffalo. For more information, please visit https://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=355

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 https://www.clu-in.org/products/tins/. The following resources were included in recent issues:

- Proceedings of the 2023 National Forum on Contaminants in Fish

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 2 resources, events, projects and news items were added to EUGRIS in July. 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.

> Conferences and Symposia

Environmental Measurement Symposium (EMS) - Garden Grove, CA, August 5-9, 2024. The EMS is the combined meeting of the Forum on Environmental Accreditation and the National Environmental Measurement Conference (NEMC). The theme of the 2024 symposium is Reliable Data for Sound Decision Making. The Conference will include: a Technical Program featuring oral and poster presentation, an Exhibit Program showcasing the latest innovations in environmental monitoring, and an Innovative New Technology Showcase. For more information and to register, please visit https://envirosymposium.group

Tribal Lands and Environment Forum (TLEF) - Eugene, OR, August 12-15, 2024. This is the fourteenth annual forum for environmental professionals from Tribes, USEPA, State/Local/Federal agencies, community organizations, and other interested parties to meet, share knowledge, and learn from one another how to improve management, protection, and restoration of Tribal lands for us and all our relations. This forum will be held in person and online. For more information and to register, please visit http://nau.edu/tlef2024

RemTEC & Emerging Contaminants Summit - Westminster, CO, October 15-17, 2024. This Summit convenes academic, consulting, regulatory, stakeholder, and other thought leaders to address today's most pressing environmental science, remediation technology, and emerging contaminants challenges through collaborative action. The Summit will showcase cutting edge research and practice case studies. This year's event will be co-chaired by Gregory Gervais, Director of EPA's Federal Facilities Restoration and Reuse Office. The technical program features other EPA speakers and session chairs including Jim Cummings (Technology Assessment Branch, OSRTI), Marc Mills (EPA Office of Research and Development), Mary Cooke (OLEM/FFRRO), and others. For information and to register, please visit https://www.remediation-technology.com/.

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 https://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 Jean Balent at (202) 566-0832 or balent.jean@epa.gov.Remember, you may subscribe, unsubscribe or change your subscription address at https://clu-in.org/techdirect at any time night or day.

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