



TechDirect, April 1, 2023

Welcome to TechDirect! Since the March 1 message, TechDirect gained 58 new subscribers for a total of 40,560. 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

ITRC Environmental Data Management (EDM): Best Practices for Exchanging Environmental Data - April 6, 2023, 1:00PM-2:30PM EDT (17:00-18:30 GMT). The ITRC Environmental Data Management Best Practices Team (EDMBP Team) prepared a series of guidance documents and case studies on best practices for all phases of EDM to address the need for guidance on managing large stores of environmental data. Environmental data management (EDM) is a broad field that encompasses all aspects of environmental research and regulation, from habitat studies and wildlife management plans to health advisories and remediation of hazardous waste sites. The EDMBP Team developed three Roundtable training sessions to support the Guidance Document and case studies. An additional offering is scheduled for May of 2023. You are welcome to register for any of the series, but they do not build upon each other. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

SERDP ESTCP In Situ and Ex Situ Approaches for Treating PFAS-Impacted Groundwater - April 6, 2023, 12:00PM EDT (16:00 GMT). This webinar will feature DoD-funded research efforts to treat PFAS-impacted groundwater in situ and ex situ. First, Dr. Charles Werth (University of Texas at Austin) will present his work on the efficacy of particulate carbon amendments (PCAs) in arresting downgradient plume migration. Second, Dr. Erica McKenzie (Temple University) will discuss her research on the treatment of PFAS using regenerable ion exchange resin or activated carbon. For more information and to register, see <https://www.serdp-estcp.org/webinars>.

NAVFAC Open Environmental Restoration Resources (OER2): Optimization Case Studies - April 6, 2023, 2:00PM - 3:00PM EDT (18:00-19:00 GMT). This OER2 webinar focuses on the experiences of three NAVFAC Remedial Program Managers/Remedial Technical Managers in optimizing the remedy at their environmental restoration (ER) sites. They will share case studies on how to implement optimization during long-term monitoring, treatability studies, and free-product recovery. For more information and to register, see <https://exwc.navy.mil/Products-and-Services/Environmental-Security/NAVFAC-Environmental-Restoration-and-BRAC/Training/OER2-Webinars/>.

ITRC PFAS Introductory Training - April 13, 2023, 1:00PM -3:00PM (17:00-19:00 GMT). Per- and polyfluoroalkyl substances (PFAS) are a large and complex class of anthropogenic compounds whose

prevalence in the environment are an emerging, worldwide priority in environmental and human health. The ITRC PFAS Team, formed in 2017, has prepared readily accessible materials to present PFAS information to stakeholders, regulators, and policy makers. The PFAS team represents a diverse cross-section of expertise and experience working on PFAS. This training will include emerging science on PFAS, including topics such as Properties of PFAS, Fate and Transport, Sampling and Analysis, and Treatment Technologies. The technical presentations will be focused on those who are relatively new to PFAS. The training will last approximately 90 minutes and include time for questions. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

Using Quickscore 3.2.2 for Superfund Site Assessments - April 18, 2023, 1:00PM-3:00PM EDT (17:00-19:00 GMT). HRS Quickscore is a standalone application that assists users in scoring sites applying the Hazard Ranking System (HRS). In this course users will be introduced to Quickscore 3.2.2. The course will feature a live demonstration of Quickscore that will show users how to enter site level documentation, source data, and pathway information for each of the four HRS pathways: ground water, surface water, soil exposure and subsurface intrusion, and air. Attendees will learn how to enter information and score a hypothetical site in Quickscore 3.2.2. If you have specific questions or suggestions related to Quickscore, please email the Quickscore Helpline (Quickscore@qdit.com) ahead of the training session and the instructors will address these during the training, as time allows. Attendees are encouraged to download and install Quickscore 3.2.2 (<https://www.epa.gov/superfund/superfund-hazard-ranking-system-hrs-quickscore#download>) prior to the webinar.

SRP Progress in Research Webinar: Session I - Emergencies and Emerging Contaminants - April 28, 2023, 12:00PM-2:00PM EDT (16:00-18:00 GMT). This Progress in Research webinar series will showcase research from 11 new and renewed Multiproject Center grantees, funded by SRP in 2022. These awards were made as part of the P42 grant solicitation RFA-ES-20-014. In the four-part series, awardees will highlight their research projects, accomplishments, and next steps. Additional sessions are offered on May 5, 12, and 19. For more information and to register for the series, please visit <https://www.clu-in.org/live>.

ITRC Environmental Data Management (EDM): Best Practices for Exchanging Environmental Data - May 2, 2023, 1:00PM-2:30PM EDT (17:00-18:30 GMT). The ITRC Environmental Data Management Best Practices Team (EDMBP Team) prepared a series of guidance documents and case studies on best practices for all phases of EDM to address the need for guidance on managing large stores of environmental data. Environmental data management (EDM) is a broad field that encompasses all aspects of environmental research and regulation, from habitat studies and wildlife management plans to health advisories and remediation of hazardous waste sites. The EDMBP Team developed three Roundtable training sessions to support the Guidance Document and case studies. This is the final in a 3-part series. You are welcome to register for any of the series, but they do not build upon each other. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

> New Documents and Web Resources

Green Remediation Best Management Practices: Cleaner Fuels and Air Emissions for Site Cleanups (EPA 542-F-23-001). Environmental investigation and remediation at hazardous waste sites can involve significant consumption of fossil fuels by vehicles and mobile or stationary equipment powered by internal combustion engines. Burning of gasoline, diesel and other fossil fuels results in emission of air pollutants such as particulate matter and carbon dioxide, a greenhouse gas that greatly contributes to climate changes. It also increases production of ground-level ozone that can trigger human health problems and may exacerbate environmental justice concerns in certain communities. The updated EPA fact sheet on this topic describes and illustrates best management practices (BMPs) intended to minimize fuel consumption and air emissions due to operating equipment such as power generators and onroad or offroad vehicles such as light- or heavy-duty trucks, tractor trailers and excavators. Key strategies focus on deploying engines and vehicles equipped with advanced emission control technologies, conserving

the fuel required to operate engines and vehicles, and integrating BMPs in project-level transportation plans for activities such as offsite disposal of waste. Such strategies are critical as the U.S. continues to transition to an electric economy. To view or download, please visit

https://www.clu-in.org/greenremediation/docs/GR_BMP_fact_sheet_cleaner_fuels_emissions.pdf.

Superfund Research Brief Number 339: New Model Estimates PFAS Exposures From Contaminated Drinking Water. Researchers partially funded by the NIEHS Superfund Research Program (SRP) developed a model to estimate individual exposure to four per- and polyfluoroalkyl substances (PFAS) commonly found in drinking water. The model integrates published data from multiple studies on PFAS levels in human blood along with measured PFAS concentrations in drinking water. Tools for estimating PFAS exposure from contaminated drinking water can inform public health risk assessments and advisories. The analysis is the largest to date of its kind, according to the team, which included researchers from the Texas A&M University (TAMU) SRP Center, Abt Associates, and the Agency for Toxic Substances and Disease Registry (ATSDR), part of the Centers for Disease Control and Prevention. For more information and to read the brief, please visit https://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=339

New Focus Area: Chlorinated Solvents. Chlorinated solvents have been used for a variety of commercial and industrial purposes, such as degreasers, drycleaning solutions, paint thinners, herbicides, pesticides, resins, glues, and a host of other mixing and thinning solutions. Visit the Chlorinated Solvents Focus Area at <https://www.clu-in.org/Chlorinated-Solvents>

New Focus Area: Polycyclic Aromatic Hydrocarbons (PAHs). PAHs are formed by the incomplete combustion of coal, oil, gasoline, garbage, residential wood burning, and other organic materials. They are one of the most common contaminants of concern (COC) addressed at Superfund sites, particularly in soil. View the PAH Focus Area at <https://www.clu-in.org/pahs>

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:

- Innovative Reuse and Beneficial Use Evaluation and Demonstration Project Report (RE02) Conowingo Sediment Characterization and Innovative Reuse and Beneficial Use Pilot Project
- Mapping Areas of Groundwater Susceptible to Transient Contamination Events From Rapid Infiltration into Shallow Fractured-Rock Aquifers in Agricultural Regions of the Conterminous United States
- Adaptive Site Management - A Framework for Implementing Adaptive Management at Contaminated Sediment Superfund Sites
- Chlorinated Solvent Remediation at the Petro-Processors Superfund Site in Louisiana
- Simulation of Regional Groundwater Flow and Advective Transport of Per- and Polyfluoroalkyl Substances, Joint Base McGuire-Dix-Lakehurst and Vicinity, New Jersey, 2018
- Environmental Behavior and Remediation of Contaminated Sites with Cationic Radionuclides: the Cases of Cs and Sr

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 3 resources, events, projects and news items were added to EUGRIS in March 2023. 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

Federal Remediation Technologies Roundtable (FRTR): Spring 2023 General Meeting. The FRTR

Spring 2023 General Meeting will take place May 16, 2023 in Washington, DC. Meeting topics include recent advances in site characterization techniques and Conceptual Site Model (CSM) development and will include technical presentations with case studies highlighting how these advances are being applied to address key challenges at complex sites to improve the level of understanding of site conditions, identify and efficiently address data gaps, support remediation decisions, and accelerate site closure.

Two attendance options are available - attending in-person in Washington, DC and attending virtually via Zoom. For more information and to register, please visit <https://www.frtr.gov/meetings1.cfm>

2023 National Brownfields Training Conference - Detroit, MI, August 8-11, 2023. The National Brownfields Training Conference is the largest event in the nation focused on environmental revitalization and economic redevelopment. Usually held every two years, the National Brownfields Conference attracts over 2,000 stakeholders in brownfields redevelopment and cleanup to share knowledge about sustainable reuse and celebrate the EPA brownfields program's success. Whether you're a newcomer or a seasoned professional, Brownfields 2023 offers something for you! For more information, please visit <https://brownfields2023.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 <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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