



TechDirect, August 1, 2022

Welcome to TechDirect! Since the July 1 message, TechDirect gained 31 new subscribers for a total of 40,294. 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

State and Federal Data in the RE-Powering Mapper 3 - August 8, 2022, 3:00PM-4:30PM EDT (19:00-20:30 GMT). RE-Powering America's Land Initiative invites federal and state colleagues to join us for a special webinar demonstration of the updated EPA RE-Powering Mapper. You will learn why your data is important to putting idle and underutilized land back to productive reuse. The mapper demonstration will show you how to identify contaminated lands that might be suitable for renewable energy development in your state. Many states collaborated with RE-Powering America's Land Initiative to provide state level data and assisted in updating the RE-Powering Mapper. RE-Powering would like to extend a thank you to these states and their representatives! EPA's RE-Powering Mapper is an interactive web application, allows users to identify contaminated lands, landfills and mine sites for renewable energy development. Using renewable energy criteria developed in collaboration with the National Renewable Energy Laboratory (NREL), EPA has pre-screened over 190,000 sites for their renewable energy potential. As part of this effort, EPA collaborated with state agencies from California, Colorado, Connecticut, Florida, Hawaii, Illinois, Iowa, Maine, Maryland, Massachusetts, Minnesota, Missouri, New Jersey, New York, North Carolina, Oregon, Pennsylvania, Rhode Island, Texas, Virginia, West Virginia and Wisconsin. Site screening was performed in August 2021. For more information and to register, please visit <https://clu-in.org/live/>.

Federal Facilities Online Academy: Groundwater Policy Overview - August 10, 2022, 1:00PM-3:00PM EDT (17:00-19:00 GMT). Groundwater Policy and Federal Facilities Overview is a two-hour webinar course that provides an overview of U.S. Environmental Protection Agency (EPA) groundwater policies and guidance with emphasis on cleanups at federal facilities. By taking this course, participants will achieve the following objectives: Identify EPA groundwater policies; Understand groundwater classification and beneficial use in restoration objectives; Understand

nature and extent considerations from groundwater contaminant plumes; Explore applicable or relevant and appropriate requirements (ARARs) commonly associated with groundwater remedies; Identify groundwater considerations for monitored natural attenuation (MNA), institutional controls, and technical impracticability waivers; and, Discover information on major groundwater policies from other federal agencies, such as Department of Defense (DoD) and Department of Energy (DoE). The target audience for this course is federal, state, and tribal representatives who work on Federal Facility cleanups. Ideally, students should have a basic understanding the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This course is part of the Federal Facilities Academy training program. Please consider registering for other Federal Facility Academy courses and obtain a certificate upon completion of the entire Federal Facility Academy series (12 courses total). For more information and to register, please visit <https://clu-in.org/live/>.

Factors Affecting the Fractional Equilibrium Levels of Radon and its Progeny Indoors - August 24, 2022, 1:00PM-2:30PM EDT (17:00-18:30 GMT). This webinar will describe the process and results from a research project concerning an issue that arises when assessing the risks, doses, or working levels of indoor radon from radioactive contamination at Superfund sites. Radon and its daughter products are the second leading cause of lung cancer in the United States. The radon indoor Inhalation fractional Equilibrium Factor (F_{eq}) is a unitless disequilibrium ratio of measured radon gas progeny alpha emissions to total progeny alpha emissions at equilibrium in a specified volume. The Superfund program developed radon vapor intrusion screening level (RVISL) calculator to assist with risk assessment and decision-making at Superfund sites where indoor Rn-222, Rn-220, and Rn-219 is a contaminant. The focus of this project was to take a closer look at the impact of factors such as exhalation, solid-particle concentration, surface deposition, and air quality. In this review, studies regarding the influence of these factors were summarized to provide a more comprehensive approach in establishing risk assessment for public health. For more information and to register, please visit <https://clu-in.org/live/>.

SBIR/STTR Funding Opportunities for Water Nanotechnologies - August 25, 2022, 1:00PM-2:30PM EDT (17:00-18:30 GMT). This webinar will offer small businesses and academic researchers an opportunity to hear from some of the Federal agencies that fund water technologies, with a special focus on investments in nanotechnology-enabled solutions. Webinar speakers will describe the fundamental goals of the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs at various agencies and share details of current and upcoming solicitations. The SBIR and STTR programs fund a diverse portfolio of startups and small businesses across technology areas and markets to stimulate technological innovation, meet Federal research and development (R&D) needs, and increase commercialization to transition R&D into impact. The webinar will be co-hosted by the U.S. Environmental Protection Agency (EPA) and the National Nanotechnology Initiative (NNI). Representatives from the EPA, the National Institute of Environmental Health Sciences (NIEHS), the National Oceanic and Atmospheric Administration (NOAA), and the National Science Foundation (NSF) will provide an overview of their current and upcoming SBIR/STTR funding opportunities for water nanotechnologies. The agencies' presentations will be followed by a Q&A session. For more information and to register, please visit <https://clu-in.org/live/>.

> New Documents and Web Resources

Updated ITRC PFAS Technical and Regulatory Guidance Document. This

guidance document is designed specifically to support state and federal environmental staff, as well as others (including stakeholders, project managers, and decision makers), to gain a working knowledge of the current state of PFAS science and practice. Developed by a team of over 400 environmental practitioners drawn from state and federal government, academia, industry, environmental consulting, and public interest groups, it also provides a summary of the current understanding of all aspects of PFAS from a broad perspective. While every effort was made to keep the information accessible to a wide audience, it is assumed the reader has some basic technical background in chemistry, environmental sciences, and risk assessment. For more information and to view the document, please visit <https://pfas-1.itrcweb.org/>.

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

- Final Report - Phase II: Protein Sorbents for PFAS-Contaminated Water Treatment: Focused Sorption Kinetics, Protein Degradation, and Thermal Regeneration Testing
- EPA Creates Database to Find Thermal Treatment Processes for Remediating PFAS

Update to ProUCL (version 5.2) is now available from US EPA. USEPA ProUCL is a statistical software package for analysis of environmental data sets with and without nondetect (ND) observations. ProUCL version 5.2 is a comprehensive statistical software package with statistical methods and graphical tools to address many environmental sampling and statistical issues. Version 5.2 is the latest version of the software that has been updated to include improvements to the Technical Guide and the User Guide for clarity, code updates to correct for reported bugs, and several changes made to the decision logic for the recommendation of UCLs. View or download at <https://www.epa.gov/land-research/proucl-software> .

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than three 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

2022 National Brownfields Training Conference - Oklahoma City, OK, August 16-19, 2022. The National Brownfields Training Conference is the largest event in the nation focused on environmental revitalization and economic redevelopment. 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 2022 offers something for you! For more information, please visit <https://brownfields2022.org/>

27th National Tanks Conference & Exposition - Pittsburgh, PA, September 13-15, 2022. NEIWPC is co-sponsoring the conference in partnership with U.S. EPA's Office of Underground Storage Tanks (OUST) and the Association of State and Territorial

Solid Waste Management Officials (ASTSWMO). Anticipated topics of the plenary sessions and posters include innovative cleanup technologies and approaches to address leaking underground storage tanks (LUSTs), such as green remediation and high resolution site characterization tools; development of LUST conceptual site models addressing emerging contaminants; and alternative fuels stored in underground storage tanks. For more information, please visit <https://neiwppcc.org/our-programs/underground-storage-tanks/national-tanks-conference/>

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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