



TechDirect, July 1, 2019

Welcome to TechDirect! Since the June 1 message, TechDirect gained 54 new subscribers for a total of 39,068. 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.

> Open Solicitation

EPA's 2019-2020 Small Business Innovation Research (SBIR) Phase I. EPA is calling for small businesses to apply for Phase I awards up to \$100,000 to demonstrate proof of concept in the following topic areas: clean and safe water, air quality, land, homeland security, sustainable materials management and safer chemicals. Successful Phase I companies are eligible to apply for Phase II funding, which awards up to \$400,000 for two years with a commercialization option of up to \$100,000, to further develop and commercialize their technologies. Applications are due by July 31, 2019. More information and application instructions are available at <https://www.epa.gov/sbir/sbir-funding-opportunities>.

> Upcoming Live Internet Seminars

NARPM Presents...Stand and Deliver Effective Presentations - July 10, 2019, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This webinar will provide participants with guidelines on how to make better presentations to the public, their peers, or management. The webinar will help to improve your presentation skills and provide you with tools and techniques to be an interesting and effective presenter. The webinar is intended to help participants increase their comfort in public speaking, control and connect with their audience, handle audience participation, and ultimately deliver the message and take-away points of training courses they are planning to instruct. The webinar will teach participants how to manage nerves, voice, gestures, transitions, visual aids, and content. The webinar also addresses how to manage the audience to include difficult participants, the solicitation of questions, and the response to questions

and will include techniques for adapting to diverse audiences. For more information and to register, see <https://clu-in.org/live>.

CERCLA 108(b) Financial Responsibility Requirements Proposal for the Electric Power Generation, Transmission, and Distribution Industry - July 18, 2019, 2:00PM-3:00PM EDT (18:00-19:00 GMT). In a Federal Register notice on January 11, 2017, the Agency made a determination to proceed with rulemakings that will either develop proposed financial responsibility requirements under CERCLA 108(b), or determine such requirements are not warranted. The first of the three industries for which EPA is proposing rulemaking is the Electric Power Generation, Transmission, and Distribution Industry. This webinar will provide an overview of the rulemaking development process and provide an opportunity for the public to provide comment. For more information and to register, see <https://clu-in.org/live>.

Brownfields Technical Assistance Available to Communities - July 16, 17, and 31. Find out how to include FREE brownfields technical expertise in your next brownfields project! EPA's Brownfields and Land Revitalization Program funds several expert organizations so they can support your efforts to assess, cleanup and reuse brownfield sites in your community. Learn how these organizations can help you manage a brownfields redevelopment project, incorporate equitable development approaches, workforce development, and leverage funding & financing opportunities. Each webinar is designed specifically for communities in groups of US states, territories, and tribes in those areas. For more information and to register, see <https://clu-in.org/live>.

US EPA Office of Research and Development Contaminated Sediments Virtual Workshop - October 21, 30, November 13, 20, 2019. The US EPA Office of Research and Development / Office of Science Policy (ORD/OSP) in cooperation with the Office of Land and Emergency Management (OLEM) is sponsoring a 4-part virtual workshop series to address current challenges at contaminated sediment sites. The aim of the virtual workshop is to provide interactive discussions between subject matter expert panelists and workshop participants. Consequently, each virtual session will feature brief topic introductions by panelists followed by facilitated panelist/participant discussions which will include opportunities for questions and answers, brainstorming, identification of concerns and research needs, and quick spot surveys. If you have a contaminated sediment site, this is the virtual workshop for you! For more information and to register, see <https://clu-in.org/live>.

Highlight from the CLU-IN Seminar Archives. Each edition of TechDirect highlights a previously recorded internet seminar from our archives that may be of interest to our readers. We welcome your feedback on this addition to Techdirect.

FRTR Presents...Per- and Polyfluoroalkyl Substances (PFAS) Emerging Characterization and Remedial Technologies, Session 1, Sponsored by Federal Remediation Technologies Roundtable (FRTR) Archive of Jun 20, 2019 Seminar (1 Hour, 30 Minutes). This is the first part of a webinar series featuring presentations delivered at the Fall 2018 FRTR Meeting. The meeting's objective was to identify and discuss the emerging science behind PFAS characterization and remedial technologies. This webinar included a presentation on "What are PFAS, and What are the Issues with Them?" as well as "Treatment Technologies for PFAS Site Management". To replay the archived webinar, visit https://clu-in.org/conf/tio/FRTRPresents5_062019/.

> New Documents and Web Resources

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:

- Abstract Book: SETAC Europe 29th Annual Meeting
- An Introduction to Natural Source Zone Depletion at LNAPL Sites
- EPA Superfund Optimization Program [Webinar]
- Final Capital Industries Plant 4 Interim Action: Stage 1 In Situ Chemical Oxidation Report
- HVDPE Pilot Test Workplan for the Former Holley Automotive/Coltec Industries Facility, Water Valley, Mississippi
- Low-Concentration Hydrogen Peroxide (LCHP) Vapor for Bioremediation
- Underground Storage Tank Technical Compendium: Financial Responsibility

SERDP/ESTCP Research Projects. The Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) harness the latest science and technology to develop and demonstrate innovative, cost-effective, and sustainable solutions to meet the DoD's environmental challenges. Recent research efforts completed by Department of the Navy (DON) Principal Investigators are highlighted online. For example, NAVFAC EXWC demonstrated the use of innovative molecular biological tools (proteomics and metagenomics) to investigate the natural attenuation of methyl tert-butyl ether (MTBE), NAVFAC EXWC developed a tool for determining the need for vadose zone remediation of volatile organic compounds (VOCs) to be protective of groundwater and to prevent vapor intrusion issues, NAVFAC EXWC also identified best practices associated with pre-remedy selection, remedy implementation, performance monitoring, and optimization of zero valent iron (ZVI) applications as well as NAVFAC EXWC demonstrated the use of geophysical techniques to provide near real-time, noninvasive, and cost-effective information on the spatial and temporal distribution of amendments. For more information on these research projects, visit <https://www.serdp-estcp.org/Program-Areas/Environmental-Restoration> .

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 June 2019. 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:

CL:AIRE Technical Bulletin TB20: An Introduction to Natural Source Zone Depletion at LNAPL Sites. This bulletin introduces the concept of natural source zone depletion. It includes a description of the processes controlling depletion rates, how these rates are measured and outlines its potential significance at UK LNAPL sites.

View or download from <https://www.clare.co.uk/component/phocadownload/category/17-technical-bulletins?download=681:tb-20-an-introduction-to-natural-source-zone-depletion-at-lnapl-sites>

> Conferences and Symposia

2019 National Brownfields Training Conference, Los Angeles, CA, December

11-13, 2019. 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 nearly 3,000 stakeholders in brownfields redevelopment and cleanup to share knowledge about sustainable reuse and celebrate the EPA brownfields program's success. For more information and to register, see <https://brownfields2019.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 (703) 603-9924 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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