U.S. ENVIRONMENTAL PROTECTION AGENCY

TechDirect, December 1, 2019

Welcome to TechDirect! Since the November 1 message, TechDirect gained 58 new subscribers for a total of 39,262. 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.

> FY 2021 Strategic Environmental Research and Development Program (SERDP) Solicitations

The Department of Defense's (DoD) Strategic Environmental Research and Development Program (SERDP) is seeking to fund environmental research and development proposals. SERDP is DoD's environmental science and technology program, planned and executed in partnership with the Department of Energy and the Environmental Protection Agency, with participation by numerous other Federal and non-Federal organizations. The Program invests across the broad spectrum of basic and applied research, as well as advanced development.
Proposals responding to focused Statements of Need (SONs) in multiple areas including Environmental Restoration — Research and technologies for the characterization, risk assessment, remediation, and management of contaminants in soil, sediments, and water. All Core Solicitation pre-proposals are due to SERDP January 7, 2020 by 2:00 p.m. ET. For more information, visit https://serdp-estcp.org/Funding-Opportunities/SERDP-Solicitations.

> Upcoming Live Internet Seminars

Federal Facilities Online Academy - December 2, 2019 through September 14, 2020. This voluntary training program has been developed for EPA RPMs, project managers from other federal agencies, State government, and Tribal groups who work on federal facility Superfund cleanups. Please consider participating in all 12 courses, 11 Webinars and 1 In-Person Training, to obtain a certificate upon completion of the entire Federal Facility Academy series. For more information and to register for

upcoming sessions or view archived sessions, see https://trainex.org/offeringslist.cfm?courseid=1819.

ITRC TPH Risk Evaluation at Petroleum-Contaminated Sites - December 3, 2019, 1:00PM-3:15PM EST (18:00-20:15 GMT). The basis for this training course is the ITRC guidance: TPH Risk Evaluation at Petroleum-Contaminated Sites (TPHRisk-1, 2018). The guidance builds on long-standing and current research and experience, and presents the current science for evaluating TPH risk at petroleum-contaminated sites. As a participant in this training you should learn to: recognize the ITRC document as a go-to resource for evaluating TPH risk at petroleum-contaminated sites, recognize how TPH-impacted media interacts with the environment and changes over time, select appropriate analytic method(s) to match site objectives, and apply the decision framework to determine when a site-specific target level may be more appropriate than a generic screening level for TPH. For more information and to register, see https://www.itrcweb.org or https://clu-in.org/live.

FRTR Presents…Modeling in Support of Site Remediation, December 4, 2019, 1:00 PM-3:00 PM EDT (18:00-20:00 GMT). This is part 2 of a webinar series featuring presentations delivered at the Spring 2019 FRTR Meeting and related material. This session will include the following topics: U.S. EPA Experience in Using Models to Support Remediation; Role of Modeling in the Remediation of the WP14/LF15 Chlorinated Solvent Plume at Dover Air Force Base, Delaware; and Tooele Army Ordnance Depot - Continuous Improvement of a Groundwater Model for Remedy Decision-Making over a 25-Year Period. For more information and to register, see http://clu-in.org/live.

ITRC Panel Event: Stormwater Best Management Practices Performance Evaluation - December 5, 2019, 1:00PM-2:15PM EST (18:00-19:15 GMT). Are you interested in improving your stormwater best management practices (BMP) performance? Could you improve your performance evaluations on the front end with publicly available data and throughout the BMP lifecycle? If so, join us for this ITRC interactive online panel session showcasing the ITRC Document: Stormwater Best Management Practices (BMP) Performance Evaluation (Stormwater-1). This panel event will provide you with: access to a centralized resource for information on stormwater BMP effectiveness; guidance to use during post-construction BMP screening, selection, installation, operation, and monitoring and maintenance; case study examples using the guidance; and answers to your questions about using ITRC's stormwater BMP tool and guidance. The panel session is intended to be a mix of interactive audience discussion and introductory material. Please come ready to ask questions and interact with the panel technical members. For more information and to register, see https://www.itrcweb.org or https://clu-in.org/live.

Construction Manager Perspective: Lessons Learned Implementing the Superfund Job Training Initiative (Super JTI) - December 11, 2019, 2:00PM-3:00PM EST (19:00-20:00 GMT). This presentation will discuss the Superfund Job Training Initiative (JTI) implementation as part of the remedial action at the Fairfax Street Wood Treating Site in Jacksonville, Florida. The Superfund JTI program is a job readiness and training program that targets areas and citizens that are affected by Superfund sites and tries to involve underemployment or unemployed community members in the Superfund process thru training and potential employment. The process includes participation of community partners in the area to assist in getting the word out for the opportunity, candidates are screened by an evaluation panel (typically including EPA, EPA RA Contractor, Constructor, and local leaders), and then selected to be part of the training program. Upon completing the training program, the graduates are then eligible to be interviewed with the potential to be hired by the RA Constructor. Lessons learned from all stages of the RA implementation (initiation, procurement, planning, communication, and field execution (subcontractor hiring process) will be highlighted in the webinars. Specifically the presentation will discuss

identifying certain expectations and objectives of the client, incorporating those objectives of Superfund JTI program into bid documents and developing appropriate subcontractor selection criteria, establishing strong communication and co-operation with the RA subcontractor, synchronizing construction schedule with the Superfund JTI program training schedule, improving screening and assessment processes for the potential candidates selected for the program, recognizing in advance the challenges presented by the candidates limited skill sets and experience as it pertains to the site specific construction needs, and developing creative alternatives, solutions, and/or opportunities for the graduates with their involvement in the RA activities. For more information and to register, see https://clu-in.org/live.

Innovations in Remediation at the Center for Bio-mediated and Bio-inspired Geotechnics - December 12, 2019, 1:00PM-2:30PM EST (18:00-19:30 GMT). Environmental remediation and restoration is one of four thrust areas of the Center for Bio-mediated and Bio-inspired Geotechnics (CBBG), a National Science Foundation (NSF)-sponsored Gen-3 Engineering Research Center. In this presentation, an overview of CBBG environmental research and Industry Partner programs will be followed by an in-depth presentation on bioremediation of chlorinated solvents. The chlorinated solvents presentation will recap over a decade of progress on this topic at Arizona State University, the lead academic partner in CBBG, with a special focus on microbial competition for hydrogen. The webinar will close with a case history (treatability study) on remediation of trichloroethene and perchlorate via application of innovative remediation techniques developed by CBBG researchers for a challenging Superfund site in the Phoenix metropolitan area. Challenges addressed in this case history include aerobic groundwater and very high sulfate concentrations. 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.

Contaminated Sediments Virtual Workshop Session 1 - Site Characterization, Archive of Oct 21, 2019 Seminar (1 Hour, 30 Minutes). 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) sponsored a 4-part virtual workshop series to address current challenges at contaminated sediment sites. The aim of the virtual workshop was to provide interactive discussions between subject matter expert panelists and workshop participants. 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 activities. Proper characterization of a contaminated sediment site is crucial to the success of future actions taken at the site. The first session will address the following topics: 1) Selection of appropriate models and estimated model level of effort, 2) Use of the incremental sampling (IS) method at sediment sites, and 3) Passive sampling of pore water and a discussion of its limitations. To replay the archived webinar, visit https://clu-in.org/conf/tio/ContSed1_102119/ .

> New Documents and Web Resources

Spreadsheets for Environmental Footprint Analysis (SEFA) Version 3. 0. EPA developed the set of analytical workbooks known as "SEFA" to help remedial project

managers and other decision-makers estimate the environmental footprint of a cleanup project at a detailed level. As an Excel-based tool, SEFA uses site-specific input and automated calculations to quantify 21 metrics such as the amounts of energy used onsite (BTUs), onsite emission of hazardous air pollutants (pounds), used potable water sourced from public water supplies (gallons), refined materials used onsite (tons), and onsite waste that is recycled or reused (percent). In November 2019, EPA released Version 3.0 of SEFA. The update reflects new default footprint conversion factors for additional materials, diesel or gasoline engines of various sizes, and laboratory analyses. SEFA output enables decision-makers to determine which cleanup activities drive the environmental footprint and to accordingly adjust the project parameters in ways that reduce the footprint and improve the environmental outcome. To download SEFA, visit https://clu-in.org/greenremediation/SEFA.

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:

- Interim Measures Final Report for Soil-Vapor Extraction of Volatile Organic Compounds from Material Disposal Area L, Technical Area 54
- Advances in Managing Contaminated Groundwater Using High Resolution Site Characterization and Contaminant Mass Flux Reduction (webinar)
- Final Report Otsego Township Dam Area Time Critical Removal Action Operable Unit 5, Area 3, Allied Paper, Inc./Portage Creek/Kalamzoo River Superfund Site
- Year 1 Monitoring Report: Enhanced Natural Recovery/Activated Carbon Pilot Study Lower Duwamish Waterway
- Molecular Design of Effective and Versatile Adsorbents for Ex Situ Treatment of AFFF-Impacted Groundwater
- Managing AFFF Impacts to Subsurface Environments and Assessment of Commercially Available Fluorine-Free Foams (webinar)
- Cost-effective Treatment Technologies for Removing CECs (webinar)

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

> Conferences and Symposia

Best Practices for Site Characterization Throughout the Remediation Process, Lenexa, KS, December 3-5, 2019. This training course is based on best management practices (BMP) implemented by the U.S. EPA, partnership organizations, federal and state partners, and consultants. Participants will learn how to streamline projects in a legal, technically sound, and cost-effective manner. By taking the course, participants achieve the following objectives: integrate best practices into traditional project activities, effectively collect and communicate critical project information, design dynamic work strategies, recognize and overcome the challenges presented while implementing a dynamic work strategy, and use BMPs to support all phases of the environmental cleanup life cycle. For more information and to register, see https://www.trainex.org/BPSCR.

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.

Call for Abstracts and Moderators! 13th Symposium on Design and Construction Issues at Hazardous Waste Sites, Philadelphia, PA, April 1-3, 2020. The applications of engineering and science associated with cleaning up hazardous waste sites continue to evolve rapidly. Our goal is to facilitate an interactive engagement between professionals from government and the private sector related to relevant and topical issues affecting our field. Past symposium abstract submission categories have provided flexibility in the types of information and presentations that would be considered for panels. In order to be considered for a presentation at this year's symposium, abstracts must be based on a project conducted by the presenter that is either complete or substantially complete with a focus on challenges and lessons learned. This year, we are requesting formal moderator nominations. Panel moderators will provide a key role to support panelists in presentation development, quality review of the presentations, and panel dry runs. Both abstract submissions and moderator nominations are due by December 14, 2019. For more information and to submit an abstract or nominate a moderator, see https://www.same.org/Get-Connected/Find-a-Post/Philadelphia/DCHWS.

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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