



TechDirect, December 1, 2020

Welcome to TechDirect! Since the November 1 message, TechDirect gained 53 new subscribers for a total of 39,727. 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.

> Funding Opportunities

FY 2021 Technical Assistance to Brownfields Communities. EPA's Brownfields Program announces the availability of funds and solicits applications from eligible entities, including nonprofit organizations, to provide technical assistance to communities and stakeholders to help address their brownfield sites, and to increase their understanding and involvement in brownfields cleanup, revitalization and reuse. The deadline to apply is December 22, 2020. For more information and application instructions, see

<https://www.epa.gov/brownfields/fy-2021-technical-assistance-brownfields-communities-grant-solicitation>.

FY 2022 Strategic Environmental Research and Development Program (SERDP) Solicitations. The Department of Defense's (DoD) SERDP is seeking to fund environmental research and development proposals responding to focused Statements of Need (SONs) in the following areas: Environmental Restoration, Munitions Response, Resource Conservation and Resiliency, and Weapons Systems and Platforms. Proposals will be selected through a competitive process. The Core Solicitation provides funding opportunities for basic and applied research and advanced technology development. Core projects vary in cost and duration consistent with the scope of the work proposed. The SERDP Exploratory Development (SEED) Solicitation provides funding opportunities for work that will investigate innovative environmental approaches that entail high technical risk or require supporting data to provide proof of concept. Funding is limited to not more than \$250,000 and projects are approximately one year in duration. This year, SERDP is requesting SEED proposals for the Munitions Response and Weapons Systems and Platforms program areas. All Core pre-proposals are due January 7, 2021. SEED proposals are due March 4, 2021. For more information and application instructions, see <https://serdp-estcp.org/Funding-Opportunities/SERDP-Solicitations>.

> Upcoming Live Internet Seminars

ITRC Optimizing Injection Strategies and In situ Remediation Performance - December 1, 2020, 1:00PM-3:15PM EST (18:00-20:15 GMT). ITRC developed the guidance: Optimizing Injection Strategies and In Situ Remediation Performance (OIS-ISRP-1) and this associated training course to identify challenges that may impede or limit remedy effectiveness and discuss the potential optimization strategies, and specific actions that can be pursued, to improve the performance of in situ remediation by: refining and evaluating remedial design site characterization data; selecting the correct amendment; choosing delivery methods for site-specific conditions; creating design specifications; conducting performance evaluations, and optimizing underperforming in situ remedies. The target audience for this guidance and training course is: environmental consultants, responsible parties, federal and state regulators, as well as community and tribal stakeholders. This training will support users in efficiently and confidently applying the guidance at their remediation sites. An optimization case study is shared to illustrate the use of the associated guidance document. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

ITRC TPH Risk Evaluation at Petroleum-Contaminated Sites - December 8, 2020, 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>.

ITRC Characterization and Remediation of Fractured Rock - December 10, 2020, 1:00PM-3:15PM EST (18:00-20:15 GMT). The basis for this training course is the ITRC guidance: Characterization and Remediation of Fractured Rock. The purpose of this guidance is to dispel the belief that fractured rock sites are too complex to characterize and remediate. The physical, chemical and contaminant transport concepts in fractured rock have similarities to unconsolidated porous media, yet there are important differences. By participating in this training class, you should learn to use ITRC's Fractured Rock Document to guide your decision making so you can: develop quality Conceptual Site Models (CSMs) for fractured rock sites, set realistic remedial objectives, select the best remedial options, monitor remedial progress and assess results, and value an interdisciplinary site team approach to bring collective expertise to improve decision making and to have confidence when going beyond containment and monitoring -- to actually remediating fractured rock sites. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

> New Documents and Web Resources

Superfund Optimization Progress Report October 2020 (EPA-542-R-20-002).

USEPA's Superfund Program releases the 2020 Superfund Optimization Report. This report provides updates on the status of optimization reviews conducted at remediation sites during fiscal year (FY) 2015 through FY 2017 and includes optimization-related technical support projects that were substantially completed through 2018. Optimization reviews typically identify several opportunities for improvements, which are generally grouped into five recommendation categories, remedy effectiveness, cost reduction, technical improvement, site closure, and energy and material efficiency. Project highlights demonstrate results achieved from optimization reviews and optimization-related technical support projects and exemplify how the lessons learned and best site cleanup practices are being incorporated in the Superfund Program (October 2020, 77 pages). View or download at

<https://www.epa.gov/superfund/cleanup-optimization-superfund-sites>.

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:

- Corrective Action Implementation Report: NuStar Adover Quail Crossing, Andover, Kansas
- Water Treatment Plant Final Report Plainfield GAC Pilot Project, GAC2018
- Managing AFFF Impacts to Subsurface Environments and Assessment of Commercially Available PFAS-Free Foams (Part 2)
- Final Year 1 Semiannual Report for the Site Investigation for Monitored Natural Attenuation Pilot Study Site 38 Torpedo Rework Facility Volume 1 of 3 NAS Jacksonville FL
- Chemical Decomposition Combined with Physical Adsorption for the Treatment of Investigation-Derived Waste Containing PFAS
- Hydrothermal Technologies for On-Site Destruction of Site Investigation Wastes Contaminated with Per- and Polyfluoroalkyl Substances (PFAS)
- Complete Reductive Defluorination of PFAS by Hydrated Electrons Generated from 3-Indole-acetic-acid in Chitosan-Modified Montmorillonite
- PFAS Degradation and Mass Removal Using Thermally Enhanced Persulfate Oxidation Followed by Pump-and-Treat

NAVFAC Fact Sheet on Long-Term Monitoring September 2020 (ESTS

N39430-16-D-1802). The Navy manages hundreds of environmental restoration sites that require long-term monitoring to track contaminant concentrations in groundwater over time. At some sites, high levels of event-to-event variability can make it difficult to identify the true long-term concentration trend. This variability can cause overestimation or underestimation of the time to achieve site cleanup and/or impact the evaluation of remedy effectiveness. This fact sheet helps to understand how to manage the effects of event-to-event variability in long-term monitoring efforts. More accurate analysis of contaminant concentration trends will ultimately support more cost-effective long-term site management decisions. View or download at

https://www.navfac.navy.mil/content/dam/navfac/Specialty%20Centers/Engineering%20and%20Expeditionary%20Warfare%20Center/Environmental/Restoration/er_pdfs/i/LongTermMonitoringCosts_FactSheet_091020FINAL.pdf .

Interstate Technology Regulatory Council (ITRC) Announces 2021 Teams. ITRC announced the formation of new teams including: Environmental Data Management for Best Practices. This Team's chief objective is to be a platform for the integration and cohesion of data management policies across environmental disciplines and programs through online implementation trainings and community forums. This ITRC Team will produce a toolkit that focuses on the fundamentals of environmental data management practices, so that organizations can progress toward more modernized and efficient data

management. Another new team for 2021, Effective Application of Guidance Documents to Hydrocarbon Sites, will produce a set of case studies that can be used as a roadmap on how to apply existing ITRC regulatory guidance documents to hydrocarbon sites. This roadmap will help practitioners address all of their related hydrocarbon concerns when navigating through several regulatory documents.

Registration for the 2021 ITRC teams is expected to open on Dec 1, 2020. For more information, see <https://www.itrcweb.org/>.

> Conferences and Symposia

Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP) Virtual Symposium, November 30-Dec 4, 2020. SERDP and ESTCP, the Department of Defense's (DoD) joint environmental research programs, will hold their annual SERDP and ESTCP Symposium virtually to highlight progress made towards addressing the DoD's priority environmental and installation energy issues. The Symposium connects environmental researchers and technology developers with the defense end-user and regulatory communities to facilitate technology transfer. Educational opportunities include 17 technical sessions, short courses, and over 450 technical poster presentations. For more information, see www.symposium.serdp-estcp.org.

13th Symposium on Design and Construction Issues at Hazardous Waste Sites - Philadelphia, PA, March 29-31, 2021. 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. We will make every effort to mirror all aspects of past symposiums in terms of format and spirit. The call for abstracts and moderators for this event is now open with submissions due by Dec 4, 2020. For more information, set

<https://www.eventbrite.com/e/design-and-construction-issues-at-hazardous-waste-sites-dchws-2020-registration-60190087171>

Brownfields 2021 will now be held in Oklahoma City, Oklahoma from September 27-30, 2021. The goal of the National Brownfields Training Conference is to provide a networking and learning environment for the brownfields community. We are working to ensure that the venue and travel arrangements will be as safe and healthy as possible so conference attendees can continue to experience the valuable in-person education and networking opportunities that have defined the brownfields conference since 1996.

For more information, see <https://brownfields2021.org/2020/09/brownfields-2021-is-moving-to-september/>.

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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