



TechDirect, December 1, 2021

Welcome to TechDirect! Since the November 1 message, TechDirect gained 51 new subscribers for a total of 40,053. 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.

> Solicitation: SERDP Proposals for FY 23 Funding

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 the Fiscal Year (FY) 2023 Statements of Need (SONs) will be selected through a competitive process. Separate solicitations are available to Federal and non-Federal proposers. The Core SERDP Solicitation provides funding in varying amounts for multi-year projects. All Core Solicitation pre-proposals are due to SERDP January 6, 2022 by 2:00 p.m. ET. SERDP also will be funding environmental research and development through the SERDP Exploratory Development (SEED) Solicitation. The SEED Solicitation is designed to provide a limited amount of funding (not to exceed \$250,000) for projects up to approximately one year in duration to investigate innovative approaches that entail high technical risk or require supporting data to provide proof of concept. This year, SERDP is requesting SEED proposals for the Munitions Response program area. The SONs and detailed instructions for each are available on the SERDP website. All SEED proposals are due March 10, 2022 by 2:00 p.m. ET. For more information and to apply, please visit

<https://www.serdp-estcp.org/Funding-Opportunities/SERDP-Solicitations>

> Upcoming Live Internet Seminars

Ehrenfeld AML Pilot Reclamation/Recreation & Watershed Improvement Project - December 1, 2021, 1:00PM-3:00PM EST (18:00-20:00 GMT). Pennsylvania Department of Environmental Protection's Ehrenfeld AML Pilot Reclamation and Recreation & Watershed Improvement Project was awarded the 2020 OSM Abandoned Mine Land Reclamation Award. The 2020 Abandoned Mine Land Reclamation Awards honor the most exemplary AML reclamation projects in the nation each year. In this presentation, Patrick Webb of PA DEP's Bureau of Abandoned Mine Reclamation Pennsylvania will present details of this project. Approximately 70 acres of coal refuse piles located along the "Johnstown Path of the Flood Trail," posed multiple environmental threats to the area. Frequent erosion clogged an unnamed tributary to the Little Conemaugh River, as a result, highly acidic water leached into and subsequently impaired local streams, burning areas of refuse piles and degrading air quality for the residents. To address these hazards, Pennsylvania's AML Program removed the refuse piles, eliminated the surface burning conditions and improved the Little Conemaugh watershed. The reclamation project has resulted in new opportunities for recreation and tourism with the addition of a community park and safer walking trails. For more information and to register, please visit <https://clu-in.org/live/>.

ITRC Strategies for Preventing and Managing Harmful Cyanobacteria Blooms - December 2, 2021, 1:00PM-3:15PM EST (18:00-20:15 GMT). Cyanobacteria are microscopic, photosynthetic organisms that occur naturally in all aquatic systems but most often in freshwater systems. Under certain conditions, cyanobacteria can multiply and become very abundant, discoloring the water throughout a water body or accumulating at the surface. These occurrences are known as blooms. Cyanobacteria may produce potent toxins (cyanotoxins) that pose a threat to human health. They can also harm wildlife and domestic animals, aquatic ecosystems, and local economies by disrupting drinking water systems and source waters, recreational uses, commercial and recreational fishing, and property values. It is likely that continued population growth, land use change, increases in nutrient inputs to our waterways, and the warming climate will favor proliferation of these problematic species. Providing a range of practical approaches to minimize these blooms and their likely societal and wildlife effects is critical to our future vitality, health, and economic prosperity. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live/>.

ITRC Optimizing Injection Strategies and In situ Remediation Performance - December 7, 2021, 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/>.

Superfund Quality and Sample Support (QSS) Pre-Solicitation Webinar - December 8, 2021, 1:00PM-3:15PM EST (18:00-20:15 GMT). The webinar will provide a technical overview of the procurement and respond to industry questions regarding the Performance Work Statement (PWS) and upcoming Request for Proposal (RFP). General contract information will also be presented. The QSS contractor shall

perform Contract Laboratory Program (CLP) sample scheduling and tracking, analytical chemistry data review/assessment, invoice preparation, and reporting in a production environment; administrative, cost recovery, and analytical services support; quality assurance technical support; and information systems operations, maintenance, development, and security. The NAICS code for the QSS procurement is 541611 - Administrative Management and General Management Consulting Services. Please submit QSS PWS and RFP questions to EPA Contracting Officer Ross Miller (miller.ross@epa.gov) and Contract Specialist Eric Langett (langett.eric@epa.gov). For more information about the Superfund CLP, please visit www.epa.gov/clp. For more information and to register, see <https://clu-in.org/conf/tio/QSS-PreSol/>.

> 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:

- Record of Decision Quendall Terminals Superfund Site Operable Units 1 and 2 Renton, Washington
- New Fuel Recovery Technique Tested at Edwards Air Force Base, Site 31, Former Bulk Fuel Storage Facility
- Small-Scale Thermal Treatment of Investigation-Derived Wastes (IDW) Containing Per- and Polyfluoroalkyl Substances (PFAS)
- The VI Diagnosis Toolkit for Assessing Vapor Intrusion Pathways and Impacts in Neighborhoods Overlying Dissolved Chlorinated Solvent Plumes
- Demonstrating a Biogeophysics Strategy for Minimally Invasive Post Remediation Performance Assessment
- Management of AFFF Impacts in Subsurface Environments and Assessment of Novel and Commercially Available PFAS-Free Foams (Part 1)
- Emerging Core Concepts for Assessment and Enhancement of Abiotic Natural Attenuation of Groundwater Contaminants
- Assessment of Contaminant Trends in Plumes and Wells and Monitoring Network Optimization at the Badger Army Ammunition Plant, Sauk County, Wisconsin
- Multi-Industry Per- and Polyfluoroalkyl Substances (PFAS) Study ♦ 2021 Preliminary Report
- Electrokinetically-Delivered, Thermally-Activated Persulfate Oxidation (EK-TAP) for the Remediation of Chlorinated and Recalcitrant Compounds in Heterogeneous and Low Permeability Source Zones

Research Brief 323: New Passive Sampling Device for PFAS. Researchers from the NIEHS Superfund Research Program (SRP)-funded centers at the University of Rhode Island (URI) and Brown University developed a new type of passive sampling device for per- and polyfluoroalkyl substances (PFAS). Their new tool overcomes many limitations to traditional approaches, such as detecting short-chain PFAS and low concentrations of the chemicals in water. PFAS chemicals, a large group of compounds found in aqueous film-forming foams, used for fire suppression, and in everyday consumer products, are made up of a chain of linked carbon and fluorine atoms. To learn more, please visit https://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=323.

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 11 resources, events, projects and news items were added to EUGRIS in November 2021. 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

Society of Military Engineers (SAME) Design and Construction of Hazardous Waste Sites (DCHWS) Winter 2022 Symposium - Denver, CO, Postponed to January 31, 2022 - February 2, 2022. The applications of engineering and science associated with cleaning up hazardous waste sites continue to evolve rapidly. The event's primary goal is to facilitate an interactive engagement between professionals from government and the private sector related to relevant and topical issues. For more information on rescheduling of this event, please visit

<https://sites.google.com/samephiladelphiaipost.org/dchws/west-symposium/winter-2022-dchws>

Calls for Abstracts for 2022 Environmental Measurement Symposium Due February 1, 2022. The Environmental Measurement Symposium (EMS) is the combined meeting of the National Environmental Measurement Conference (NEMC) and the Forum on Environmental Accreditation. In 2022, EMS will be held August 1-5 at the Hyatt Regency in Crystal City, Virginia. The theme of the 2022 conference is Where Do We Go From Here? For more information and to submit an abstract, please visit

<https://www.envirosymposium.group/meeting/2022/presenters.php>.

2021 National Brownfields Training Conference - Oklahoma City, OK, POSTPONED to 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 2021 offers something for you! For more information on rescheduling of this event, please visit

<https://brownfields2021.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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