



TechDirect, August 1, 2021

Welcome to TechDirect! Since the July 1 message, TechDirect gained 56 new subscribers for a total of 39,961. 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.

> Announcements

Collection of Concordant Multimedia Measurements to Evaluate PFAS Human Exposure Pathways Request for Applications (RFA). With this RFA, EPA seeks to advance common exposure measurement protocols that can be implemented across PFAS cohort studies to generate important exposure data for priority pathways. The Agency is soliciting research that proposes and evaluates innovative protocols for measuring human exposure to PFAS chemicals in cohorts where biomonitoring is being conducted. Responsive proposals should include a collection of environmental and personal exposure measures and analysis for a common set of PFAS chemicals (e.g., those measured in NHANES) as well as Total Organic Fluorine (TOF). In addition, the data developed should enable or improve interpretation of PFAS biomonitoring data and inform understanding of the important sources and pathways related to personal exposures to PFAS chemicals. For more information and to apply, please visit <https://www.epa.gov/research-grants/collection-concordant-multimedia-measurements-evaluate-pfas-human-exposure-0>

> Upcoming Live Internet Seminars

Risk e-Learning Webinar Series: Session III - Integrating Omics Data Across Model Organisms and Populations - August 3, 2021, 2:00PM-4:00PM EDT (18:00-20:00 GMT). The NIEHS Superfund Research Program (SRP) is hosting a Risk e-Learning webinar series focused on SRP-funded data science projects that are enhancing the integration, interoperability, and reuse of data. With these supplements, the SRP encourages data sharing among its grantees to accelerate scientific discoveries, stimulate new collaborations, and increase scientific transparency and

rigor. The third and final session will feature SRP-funded researchers collaborating to combine omics (e.g., genomics, proteomics) data within and across model organisms as well as studies in human populations. We will also hear from The Global Alliance for Genomics and Health about their work to incorporate semantic data models for sharing of genomic data to align with environmental health research. The first two sessions are archived and available for replay at <https://clu-in.org/live/archive/>. For more information and to register for the third session, please visit <https://clu-in.org/live>.

Community Reuse of Superfund sites - EPA Region 4 Spotlight - August 11, 2021, 2:00PM-3:00PM EDT (18:00-19:00 GMT). Community reuse of formerly contaminated land provides stakeholders with unique opportunities to create a positive impact on their neighborhood. This webinar will highlight the innovative community reuse of the Brown's Dump site, where the Clara White Mission operates a teaching farm, providing environmental education projects, job training, an on-site farmers market and fresh produce for Mission's programs to feed homeless and other disadvantaged community members. Stakeholders will learn how the site is part of a multi-site community empowerment and planning effort seeking to address environmental justice challenges through equitable redevelopment in Jacksonville, Florida. For more information and to register, please visit <https://clu-in.org/live>.

Ecosystem Services - Benefits and Considerations for the Cleanup of Contaminated Mine Sites - September 21, 2021, 1:00PM-3:00PM EDT (17:00-19:00 GMT). One way to characterize and improve the benefits of environmental cleanups is to use concepts of "ecosystem services", those benefits that nature contributes to human health and well-being. Join us to learn about how we may consider ecosystem services in cleanup of contaminated site cleanups. This two-part webinar will first introduce ecosystem services concepts from a contaminate site cleanup perspective and discuss ongoing efforts at EPA to connect ecosystem services concepts, tools, and frameworks to different aspects of cleanups. The second part will introduce examples of mine cleanups that have elements relevant to ecosystem services with an overall goal to tee up innovative ideas for characterizing and improving the benefits of environmental cleanups. Overall, an understanding of ecosystem services concepts can be helpful to ecological risk assessors and cleanup project managers working on sites looking for enhancing environmental benefits in their projects. For more information and to register, please visit <https://clu-in.org/live>.

Plume Stability Analyses with GWSDAT - September 22, 2021, 11:00AM-12:00PM EDT (15:00-16:00 GMT). The GroundWater Spatiotemporal Data Analysis Tool (GWSDAT) is a user friendly, open source, decision support tool for the analysis and reporting of groundwater monitoring data. Uniquely, GWSDAT applies a spatiotemporal model smoother for a more coherent interpretation of the interaction in spatial and time-series components of groundwater solute concentrations. This provides a more data efficient method for evaluating and determining contaminant plume stability. New in the latest version (v3.1) is the ability to perform well redundancy analysis by allowing the user to drop a well or a combination of wells from the analysis and investigate the resultant impact, including comparison to full dataset. More information and access to this tool can be found at <http://gwsdat.net/>. For more information and to register, please visit <https://clu-in.org/live>.

> New Documents and Web Resources

New 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 Per- and polyfluoroalkyl substances (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, 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:

- Biogeochemical Processes That Control Natural Attenuation of Trichloroethylene in Low Permeability Zones
- Advanced Environmental Molecular Diagnostics to Assess, Monitor, and Predict Microbial Activities at Complicated Chlorinated Solvent Sites
- The U.S. Environmental Protection Agency, Department of Defense, and State Partners Announce Winners of International Challenge Seeking Innovative Ways to Destroy PFAS in Firefighting Foam
- Remediation Techniques for Radioactive Contaminated Land on Nuclear Licensed Sites
- 2020 National Office of Surface Mining Reclamation and Enforcement Award Nomination: the Ehrenfeld AML Pilot Reclamation/Recreation & Watershed Improvement Project

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 6 resources, events, projects and news items were added to EUGRIS in July 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

The National Environmental Monitoring Conference - Bellvue, WA and Virtual, August 2-12, 2021. The National Environmental Monitoring Conference (NEMC) is the largest conference in North America focused on environmental measurements. In 2021, NEMC will be held as a hybrid event, with both an in-person and virtual event planned for the week of August 2, 2021, and a virtual-only event for the week of August 9, 2021. The in-person event will be held at the Hyatt Regency in Bellevue, Washington. The theme of this year's conference is Hitting Reset. The Conference will include a technical program featuring oral and poster presentations, a special half-day general session with a keynote speaker focused on the conference theme and updates from EPA program offices, special keynote presentations on the conference theme, and luncheon presentations, an exhibit program showcasing the latest innovations in environmental monitoring, and an Innovative New Technology Showcase. For more information and to register, please visit <https://nemc.us/>.

Call for Abstracts for 5th Annual Design and Construction Issues at Hazardous

Waste Sites (DCHWS West), October 25-27, 2021. The US EPA and Society of American Military Engineers (SAME) will again co-sponsor the DCHWS West which will be held in Denver, Colorado. Interested parties may submit abstracts to present or nominations to moderate at the Symposium based on a project conducted by the presenter that is either complete or substantially complete with a focus on challenges and lessons learned at hazardous waste sites. The submission deadline has been extended and submissions are now due by Wednesday, August 11, 2021. Abstract submission form is available at https://clu-in.org/download/misc/DCHWSWest_2021-abstractform.doc. Moderator nomination form is available at https://clu-in.org/download/misc/DCHWSWest_2021-moderatornominationform.doc. For more information, please visit <https://sites.google.com/samephiladelphiaipost.org/dchws/west-symposium/fall-2021-dchws>.

Calls for Poster Abstracts for SERDP & ESTCP Symposium 2021, November 30 - December 3, 2021. The SERDP and ESTCP Symposium is the nation's largest conference focusing on the Department of Defense's priority environmental and installation energy issues. The Symposium brings together environmental and energy researchers and technology developers with the defense end-user and regulatory communities to showcase cutting edge environmental technologies and ideas. The 2021 Symposium will offer 16 technical sessions, a number of short courses, 400 technical poster presentations, and a variety of networking opportunities. The deadline for poster abstract submission for the technical poster presentations at the 2021 SERDP and ESTCP Symposium has been extended to Sunday, August 22. For more information and to submit a draft abstract, please visit <https://sems2.serdp-estcp.org/proposalsubmission/submission/home>.

New Dates! 2021 National Brownfields Training Conference - Oklahoma City, OK, December 8-11, 2021. 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, 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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