Federal Remediation Technologies Roundtable



Agency Announcements

FRTR Spring 2024 Meeting

May 21, 2024

Air Force Civil Engineer Center



Restoration Technology Webinars

Торіс	Speaker	Date
Particulate Carbon Amendment Injection into a Fractured Granitic Bedrock Aquifer for Treatment of CVOCs	Stephen Richardson, GSI	10 April 2024
The Horizontal Reactive Treatment Well (HRX Well [®]) for In-Situ Control of cVOC and PFAS Mass Flux	Craig Divine, Arcadis	8 May 2024
Mass Flux as a Tool to Assess the Need for Remediation of PFAS Source Zones	Charles Schafer, CDM Smith	12 June 2024
Long-Term Sustainability of Soil Stabilization Technology to Minimize PFAS Leaching	Theresa Olechiw, Arcadis	10 July 2024
Field Scale Demonstrations of Super Critical Water Oxidation Technology for PFAS Destruction at Air Force Restoration Sites	Steven Rozansky, Battelle	14 August 2024
PFAS Destructive Treatment Train with Cyclodextrin Adsorbent and DEFLUOR Electrochemical Oxidation	TBD, AECOM	11 September 2024

Monthly, 2nd Wed @ 2pm (Eastern): <u>https://www.afit.edu/CE/index.cfm</u> <u>Click on "Speaker Series" for upcoming and archived presentations</u>



Do you hear about TRAC?

Tracking Restoration And Closure (TRAC) is a web-based application that combines infographics, annual statistics, and historical facts to clearly communicate the current status of groundwater contamination cleanup efforts at Department of Energy Office of Environmental Management (DOE-EM) sites across the nation. TRAC is a tool to share information about and provide transparency into environmental remediation progress at these cleanup sites.

In addition to tracking remediation progress, TRAC is an online information resource that promotes the sharing of technologies, successes, and lessons learned across the DOE-EM complex by providing a single, consistent framework for integrating and standardizing information among EM sites. TRAC facilitates effective communication about progress toward site closure between DOE-EM sites and Headquarters, and with regulators and stakeholders.

For more information: <u>www.pnnl.gov/projects/trac</u>



DOE EM- MINORITY SERVING INSTITUTIONS PARTNERSHIP PROGRAM

The Minority Serving Institutions Partnership Program (EM MSIPP) promotes the education and development of the next generation workforce in critical science, engineering, technology, and math (STEM) related disciplines that compliment current and future missions of <u>The U.S. Department of Energy Office of Environmental Management (DOE-EM)</u>.

DOE-EM recognizes that successfully completing its legacy environmental cleanup mission requires maintaining a highly-trained, technically skilled, and diverse workforce. Minority representation in critical science and engineering fields is an important part of EM's vision for this future workforce.

EM MSIPP provides students and graduates of Minority Serving Institutions (MSIs) with hands-on education and experience by supporting collaborations between MSIs and DOE national laboratories. According to The U.S. Department of Education, MSIs are institutions in which one minority group constitutes at least 25% of total undergraduate enrollment, or in which all minority students constitute at least 50% of the total undergraduate enrollment.



MSIPP University and Student Engagement Maine Washington Vermon North Montana Minnesota Dakota Wisconsin × Oregon South Michigan Idaho Dakota lew Jersev Wyoming Pennsylvani lowa laware Nebraska Maryland ndiana Illinois Nevada DC × Virginia × irginia × Utah Colorado Missouri Kansas North Carolina California [emesse South Oklahoma * Arkansas Arizona Georgia × New Mexico × ississipp × Alabama ★ Texas

Engaged 221 MSIs utilizing campus visits and the Handshake platform.

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Louisiana

Florida

Puerto Rico ×





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Significant Growth in Student Participation







EM-MSIPP LinkedIn Page



EM-MSIPP Program Page

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Federal Facilities Restoration and Reuse Office

EPA Federal Facility RPM Training June 11-13 in Denver, Colorado October 8-10 in Lenexa, Kansas <u>https://www.trainex.org/offeringslist.cfm?courseid=1749&all=yes</u>

• Federal Facility Academy webinars

https://www.trainex.org/FFacademy

For More Information

UNITED STAD

ENVIRONNE

<u>Contact</u> McEaddy.monica@epa.gov

Web Sites www.epa.gov/fedfac

U.S. Geological Survey



• New Report:

Lorah *et al.:* Anaerobic biodegradation of perfluorooctane sulfonate (PFOS) and microbial community composition in soil amended with a dechlorinating culture and chlorinated solvents

https://doi.org/10.1016/j.scitotenv.2024.172996





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Naval Facilities Engineering Systems Command



DON Environmental Restoration and BRAC (ERB) Website https://exwc.navfac.navy.mil/go/erb

Visit us on LinkedIn: <u>https://www.linkedin.com/showcase/navfacerb</u> DON Policy/Guidance: <u>https://exwc.navfac.navy.mil/go/resources</u> Reports and Tools:

- New! Using REMChlor-MD to Assess the Impact of Matrix Diffusion on Chlorinated Solvent Sites ERB Website > Training > Technology Transfer> Publications Matrix Diffusion_FactSheet_2024.pdf (navy.mil)
- New! DoD ESTCP Mobile/Immobile Porosity Exchange Tool (MI-PET) ERB Website > Training > Technology Transfer > Technology Transfer T2email Mar24.pdf (navy.mil)

Open Environmental Restoration Resource Webinars: ERB Website > Training > OER2

 New! Revised Interim General Guidelines for PFAS Remedial Investigations (RIs) OER2 Webinars (navy.mil)

Navy Remediation Innovative Technology Seminar (RITS) ERB Website > Training > RITS

Registration for June & July Offerings, open to DON RPMs and other DON/DoD personnel,federal/state/local regulators, and contractors with an active DON EnvironmentalRestoration contract. RITS (navy.mil)For More Information Contact

For More Information Contact karla.j.harre.civ@us.navy.mil

US Nuclear Regulatory Commission



The NRC Issued SECY-24-0035 on Advancing the Use of AI at the NRC

SECY-24-0035 summarized potential AI applications and the staff's overall approach to effectively leverage AI at the NRC Staff identified 61 potential applications:

•36 are recommended for AI use cases•25 focus on data analytics or automating processes

•For more information, contact: Boby Abu-Eid at: <u>Boby.Abu-Eid@nrc.gov</u>



Superfund Research Program (NIEHS)

NIH

National Institute of Environmental Health Sciences Superfund Research Program

CLU-IN

Monthly Research Brief #353

Engineering Hydrogel Beads to Enhance Bioremediation of

Groundwater Contaminant.

Harris C, Gedde H, Davis A, Semprini L, Rochefort WE, Fogg K. 2024. The optimization of poly(vinyl)-alcohol-alginate beads with a slowrelease compound for the aerobic cometabolism of chlorinated aliphatic hydrocarbons. RSC Sustain <u>doi:10.1039/D3SU00409K</u>

Visit page for full story, publications, and podcast.

Legend Polymer network CDCE-degrading bacteria Organic stimulant

Depiction of the composition of the hydrogel beads. The cDCE-degrading bacteria and organic stimulant are enmeshed within the bead polymers. (Image adapted from Harris et al., 2024)

March 2024 SRP Digest: <u>Promoting Healthy Fish</u> <u>Consumption</u> Highlights SRP's research and community engagement for potential sources of exposure and identify contaminant transfer in fish and seafood.



Ghosh, right, and colleagues collect samples to measure PCBs. (Image from a <u>YouTube video</u> 더 highlighting work in Delaware)

SRP Events: Stay Tuned: the next SRP Annual

Meeting will be in Spring/Summer 2025!

Recent Webinar Series:

Progress in Research: Emerging Technologies in Occupational Health and Safety

Ongoing Solicitations

- <u>Small Business Innovative Research Grants</u> Due Jan 5, Apr 5, Sept 5, also please see new initiatives on <u>Climate Change</u>
- Mechanism for Time-Sensitive Research Opportunities in Environmental Health Sciences (R21) Monthly receipt dates

For More Information Contact: <u>Heather.Henry@nih.gov</u>;

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Sign Up for Updates: <u>SRPinfo@nih.gov</u> Website: <u>www.niehs.nih.gov/srp</u>