

TECHNOLOGY TRANSFER (T2) UPDATE

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Department of Defense (DoD) Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) Webinar Series

Novel Technologies for Ex Situ and In Situ Per- and Polyfluoroalkyl Substances (PFAS) Treatment. Join SERDP and ESTCP on April 4 at 12 PM ET (9 AM PT) for a webinar on DoD-funded research efforts to develop innovative technologies for PFAS treatment. The Principal Investigators will discuss ex situ (gliding arc plasma) and in situ (granular activated carbon) technologies to destroy and retain PFAS in water and solids, respectively.

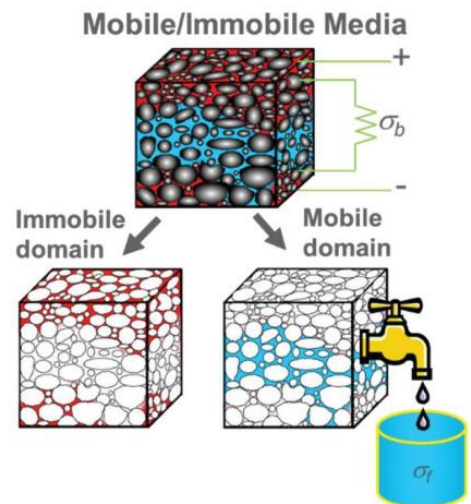


To register for the webinar, please visit the link below:

<https://serdp-estcp.mil/webinars>

DoD ESTCP Mobile/Immobile Porosity Exchange Tool (MI-PET)

Contaminants trapped within immobile porosity (i.e., low-permeability zones and the rock matrix surrounding fractures) can serve as persistent sources and significantly prolong remedial timeframes. Conventional sampling techniques tend to preferentially draw fluid from mobile porosity (i.e., more permeable zones and fractures). Therefore, accurate quantification of these low-permeability zones requires invasive coring and costly laboratory extractions. NAVFAC EXWC led the demonstration of an innovative technology called the Mobile/Immobile Porosity Exchange Tool (MI-PET). This tool facilitates field-scale, minimally invasive measurements of immobile porosity and the rate coefficients governing the exchange between mobile and immobile pore spaces. The MI-PET is a borehole hydrogeophysical instrument, enabling focused tracer injections, sampling, and electrical geophysical monitoring. By combining electrical geophysical techniques with conventional hydrologic tracer testing, valuable insights into contaminant storage within low-permeability media and subsequent back diffusion can be obtained. In addition, software has recently been released to aid in interpreting datasets acquired using the MI-PET.



To learn more about MI-PET, explore the DoD ESTCP project profile and review the results at the link below:

<https://serdp-estcp.mil/projects/details/552dd90c-dd70-4107-b1f7-e4569e7753cf>

This email has been prepared by the NAVFAC EXWC Environmental Restoration Division

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ABOUT THIS EMAIL

This email supports the NAVFAC Environmental Restoration Program by providing the latest information on policy, guidance, and training related to innovative technologies. Links are provided to T2 resources and tools. Our goal is to promote the use of innovative technologies, remove barriers to implementing new technologies, and reduce cleanup costs, while remaining protective of human health and the environment.