

ERDC Environmental Laboratory (EL) CW Researchers Provide Panel Discussion on Environmental Dredging at RemTech Europe Conference

Impact Statement: ERDC researchers from the Environmental Laboratory (EL) shared their knowledge of environmental dredging for contaminated sediment remediation at RemTech Europe, the International Conference on land and water remediation technologies.

A team of researchers from ERDC Environmental Laboratory (EL) (Dr. Edith Martinez-Guerra, Susan Bailey, Dr. Paul Schroeder, and Damarys Acevedo-Acevedo) participated in RemTech Europe, the International Conference and Exhibition on land and water remediation markets and technologies, held 16-20 September 2024. The first two days of the conference were virtual and the remaining days were hybrid (virtual and in-person). During the online portion of the conference, Dr. Edith Martinez-Guerra hosted a panel session on Dredged Sediments in which Dr. Schroeder, Ms. Acevedo-Acevedo and Ms. Bailey provided discussion related to dredging as an alternative for contaminated sediment remediation (Figure 1). In Part 1, Dr. Schroeder gave an overview of contaminated sediment remediation strategies and conditions for which dredging would be a suitable alternative. Ms. Acevedo-Acevedo provided background on dredging, and Ms. Bailey followed with a discussion of dredging processes that contribute to increased risk to the environment. In Part 2, the researchers presented specialized equipment, operations strategies, monitoring, and controls for environmental dredging, followed by dredged material management considerations. Dr. Martinez-Guerra also participated during the in-person portion of the conference held in Ferrara, Italy, co-chairing a session on per- and polyfluoroalkyl substances (PFAS).

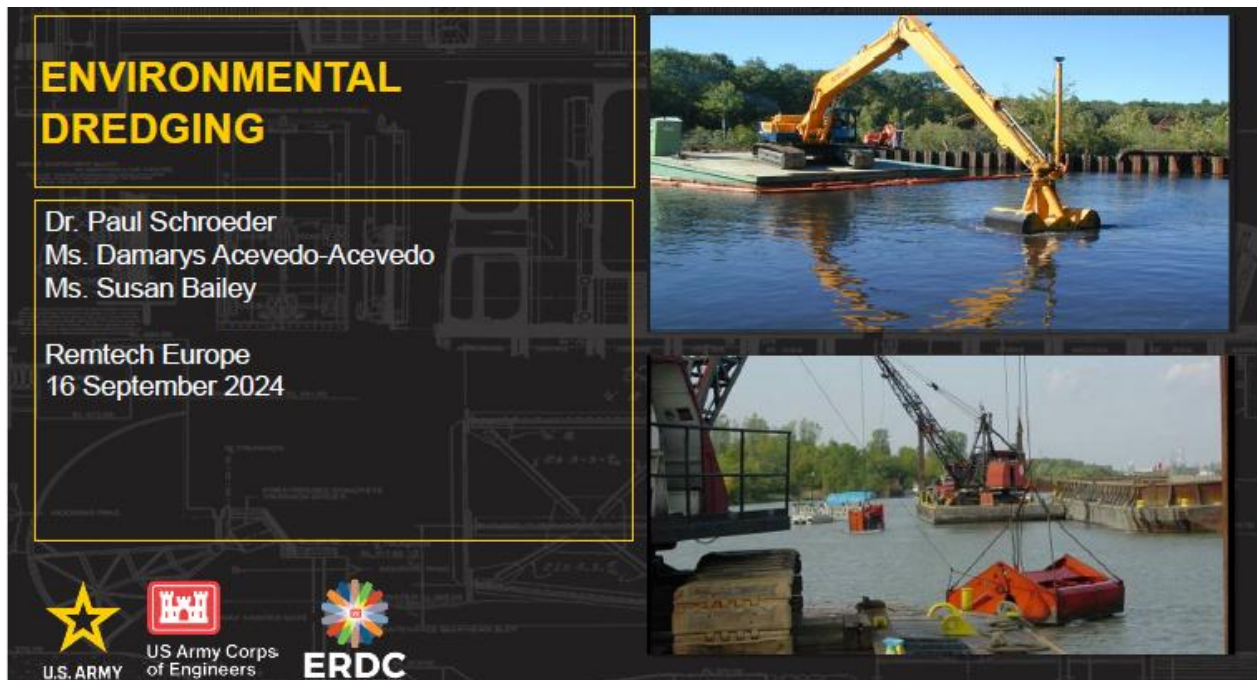


Figure 1. Dr. Schroeder, Ms. Acevedo-Acevedo, and Ms. Bailey (all ERDC Environmental Laboratory [EL]) presented Environmental Dredging at the RemTech Europe Convention at a panel session led by Dr. Edith Matinez-Guerra (EL).

RemTech Expo is the leading international technological hub specializing in land protection and sustainable development, remediation of contaminated sites, coastal and port areas, hydrogeological risks, climate change, seismic activity, urban renewal, and sustainable chemical practices. Dr. Edith Martinez-Guerra is a member of the RemTech Europe Scientific Committee and is currently serving as the ERDC Liaison to the USACE Europe District (NAU) in the ERDC Strategic Integration Office. As the USACE representative, Edith, with support from ERDC's Subject Matter Experts (SMEs), has coordinated trainings on PFAS, Risk Assessment, Phytoremediation, and Dredging. This has allowed ERDC researchers to make connections with the international remediation community by sharing ERDC's technological expertise.

Funding for attendance by the ERDC Environmental Laboratory (EL) personnel at the RemTech Europe Convention was provided by the Sediment Remediation Guidance development through the US Environmental Protection Agency (EPA) Superfund Headquarters.

Attendance by the ERDC EL CW Researchers at the RemTech Europe supports the Technology Support Mission of the USACE Dredging Operations and Environmental Research (DOER) Program.

PoC: Susan Bailey susan.e.bailey@usace.army.mil