Recent Publications

• Low-cost, Plug-and-Play Data Diodes for Protection and Quality of Utility and Facility-related Data for the Purposes of Efficient Decision-Making – ESTCP Final Report

• Determination of Residual Low-Order Detonation Particle Characteristics – ESTCP Final Report

• Performance of Two Technologies to Control Difficult-to-Treat Matrix Diffusion Zones: Post-Bioremediation Sustained Deployment of Smart Munitions and Application of a SERDP-developed Penetrometer

• Further Examining the Role of Cohesive Sediments in Munitions Mobility through Additional Infield Laboratory and Field Experiments Focused on Open-Canopy Landscapes to Account for Changes in Physical Contexts, Scales, and Surrogate Soil Mixtures – ESTCP Final Report

• Standardization of Polymeric Sampling for Measuring Freely Dissolved Organic Contaminant Concentrations in Sediment Porewater – ESTCP Final Report

• Assessing the Cost and Performance of a Low-Cost Device to Detect Benthic Infauna – ESTCP Final Report

• Advances in the Assessment of Low-Order Detonation Effects: An ESTCP-Funded Project That Demonstrated the Use of a Novel Technology to Quantify Environmental Impacts

• Investigating the Use of Energy and Water

• Demonstration of AUV-Based Acoustic Look-Down and Imaging for Underwater UXO Detection and Response

• Side-look Sonars for Underwater UXO Detection and Response

• Understanding Shipboard Oil/Water Emulsions Using Macro- and Micro-scale Flows

• Development and Testing of a Mobile Robotic System (MRS) for the In-Situ Detection of Soldier and Vehicle Contaminants

• Capabilities Assessment of Commercially Available PFAS-free Foams

• Demonstration of a novel system for detecting and imaging nested munitions in a shallow water area

• Mechanization of Nuclear Disassembly: Assessing the Cost, Effectiveness, and Safety of the Proposed Methodologies

• Quantifying Abiotic Transformation Rates and Mechanisms for Chlorinated Ethenes

• Advanced Capabilities in the Underwater Munitions Expert System – SERDP Interim Report

• Mechanochemical Nitration of Organic Compounds – SERDP Final Report

• Non-Catalytic Microwave Ignition of Green Hydrazine Replacements – ESTCP Final Report

• Quantifying the Influence of Combustion Processes on the Fate of Munitions

• Environmental Restoration

FY 2022 New Project Announcements

SERDP and ESTCP are pleased to announce the 2021 Projects of the Year.

The year’s awards recognize scientific advances and technological solutions to some of the Department of Defense’s most pressing environmental restoration and munitions response challenges.

This year’s recipients are:

SERDP Project of the Year – Dr. Nicholas Skowronski, U.S. Forest Service, Northern Research Station

ESTCP Project of the Year – Dr. Joseph A. Bucaro, Naval Research Laboratory

Serendipitous Pathways to Solutions

In many cases, the solutions to environmental challenges stem from serendipitous discovery and innovative thinking.

Dr. Joseph Bucaro and Dr. Brian Houston from the Naval Research Laboratory and Jerry Back and his team from Jensen Hughes and the Naval Research Laboratory Stennis Space Center expanded the capabilities of existing technologies to develop new solutions.

View the full SERDP and ESTCP Webinar Series Schedule

As project overviews become available, each project will have its own web page to share specific details and opportunities for collaboration. Titles and principal investigators are listed on the SERDP and ESTCP website.

All project titles and principal investigators are listed on the SERDP and ESTCP website.

FY 2022 New Project Announcements

- Environmental Restoration
- Munitions Response
- Weapons Systems and Platforms
- Military Infrastructure
- Environmental Health
- Energy and Sustainability
- Information and Cybersecurity
- Water and Ecosystems
- Non-Human animal

Learn more and register for the webinars.