

Register Now for 2017 SERDP & ESTCP Symposium

Program Includes Technical Sessions & Training Opportunities

THE STRATEGIC ENVIRONMENTAL Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP) Symposium will be held November 28-30, 2017 at the Washington Hilton in Washington, D.C. and will highlight the programs' recent efforts to enhance mission capabilities, reduce costs in times of increasing fiscal constraints and improve environmental and energy performance.

An introductory plenary session will be followed by a comprehensive technical program consisting of concurrent technical sessions and short courses covering a variety of scientific and technical topics. Attendees will have numerous opportunities to tour more than 450 posters and exhibit booths while networking with approximately 1,200 environmental professionals. Technical exchange networking receptions will be held both Tuesday and Wednesday evening in conjunction with the poster sessions. Attendees will have an opportunity to earn up to 20 hours of continuing education credit by participating in the Symposium.

Technical Sessions

Sixteen technical sessions will highlight research and innovative technologies that improve the Department of Defense's (DoD) environmental performance, reduce costs

and enhance mission capabilities. The following are this year's topics:

1. **Cost-Effective, Cutting-Edge Building Efficiency Technologies: Lighting, Heating, Ventilation and Air Conditioning (HVAC) and Controls**
Learn about a variety of building efficiency technologies, ranging from HVAC systems, components and controls to improved building envelope technologies.
2. **Per- and Polyfluoroalkyl Substances (PFAS): Treatments to Replacements**
This session will highlight recent advances to characterize, remediate and replace PFASs.
3. **Pacific and Arctic Environments: Unique Importance and Challenges**
This session will highlight SERDP projects investigating improvements to fundamental and applied understanding of current environmental controls on DoD built and natural resources, and how climate change is projected to impact operations, infrastructure, freshwater availability and ecosystems in Pacific and Arctic environments.



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Short courses will offer unique training opportunities on emerging technologies and methods in environmental restoration and munitions response.

4. **Hexavalent Chromium and Cadmium: Alternatives for Plating Processes**
This session will present recent advances in the science, tools and techniques needed to mitigate the risks associated with hexavalent chromium and cadmium use while continuing to meet critical defense performance criteria.
5. **Microgrids: Building a Flexible, Secure and Resilient Base for Today and Tomorrow**
Learn how advanced microgrids use smart controls, high penetration renewable energy, energy storage and innovative designs to create economical, agile and resilient energy systems.
6. **Chlorinated Solvents: Challenges and Progress**
This session will address the advances in characterization, management and monitoring of chlorinated solvent sites.
7. **Marine Mammal Retrospective: Linking Behavioral Responses to Population-Level Effects**
This session will review the progress and examine paths forward linking short-term behavioral responses to population-level effects.
8. **Sustainable Alternatives to Current Military Finishing Systems**
Investments targeting conversion coatings, primers, sacrificial coatings, topcoats, specialty coatings and novel testing protocols will be highlighted during this session.
9. **Insensitive Munitions: Safe & Sustainable**
This session will address emerging issues in synthesis and yields, projected costs of insensitive munitions compounds, the known or suspected toxicity parameters and the fate and transport of these compounds in the environment.
10. **Contaminated Sediments: Management Options**
This session will explore new cost-effective options for managing contaminated aquatic sediments.
11. **Advanced Species Management: Military Lands in the Regional Context**
This technical session focuses on understanding regional- and landscape-scale habitat connectivity and resource use issues within the context of regional land management partnerships to more effectively manage threatened, endangered and at-risk populations.
12. **Underwater Unexploded Ordnance (UXO): Systems for Detection and Classification**
Presenters in this session will describe several sensor modalities that can detect and discriminate underwater munitions, both visible on the surface of the seafloor and buried in the sediment.
13. **Energetic Materials: Alternative Materials and Processes**
This session will review recent advances in the development and demonstration of alternative materials and synthesis processes to mitigate risk while maintaining critical performance.
14. **Underwater UXO: Burial and Mobility**
This session highlights experimental and modeling efforts focused on an engineering model of munitions mobility.
15. **Energy Information and Cyber-security: Key to Smart and Secure Installation Operation and Investment**
This session will look in-depth into savings gained through monitoring, gathering and managing energy system data and at strategies for securing installation energy systems from cyber-attack.



To register for the Symposium, visit www.symposium.serdp-estcp.org.

16. Vapor Intrusion: Pathways to Solutions.

This session will delineate the new approaches for assessment, monitoring, sampling, mitigation and management of vapor intrusion sites.

Short Courses

Short courses will offer unique training opportunities on emerging technologies and methods in environmental restoration and munitions response. Attendance for these short courses will be limited, and advanced registration for each short course is required. The cost to attend short courses is included with the registration fee. The following are this year's short course topics:

- PFASs at Military Sites
- Contaminant Flux and Fate in Fractured Bedrock
- Geophysics for Environmental Characterization and Monitoring at DoD Sites
- Transition of Corrosion-Resistant Electrocoat Application Process into the Military Aviation Community
- Transitioning New Tools to Practice, Environmental DNA Methods and Protocols
- Emerging Regulatory Trends: Potential Impacts of TSCA and REACH to the DoD Mission
- Development of Cold Spray Technology for Additive Manufacturing
- Scenario-Based Coastal Risk Management
- Training System for Reducing Costs of Remediation and Long-Term Management of Contaminated Sites
- International Dimensions: Overseas Environmental Topics
- Sustainability Analysis: Capturing Life Cycle Impacts and Costs in Defense Systems

Exhibits

Over 450 technical posters and exhibit booths will be on display as part of separate sessions on Tuesday and Wednesday of the Symposium. Each of the sessions will be comprised of a separate group of posters that comple-

ment the technical sessions from that day. Attendees will be able to learn more about the wide range of research and demonstration projects that are funded by SERDP and ESTCP in addition to other interesting efforts related to environmental and installation energy issues. This session will highlight research and demonstration projects only and will not contain any marketing. The poster session will conclude each day with a networking reception.

About SERDP and ESTCP

SERDP is DoD's environmental science and technology program, executed in partnership with the U.S. Department of Energy and the U.S. Environmental Protection Agency. SERDP invests across a broad spectrum of basic and applied research and advanced development. ESTCP is DoD's environmental and installation energy technology demonstration and validation program. The program's goal is to identify and demonstrate cost-effective technologies that address DoD's highest priority environmental and installation energy requirements. Both programs address DoD environmental and installation energy needs in the Energy and Water, Environmental Restoration, Munitions Response, Resource Conservation and Resiliency and Weapons Systems and Platforms areas.



For additional information or to register for the Symposium, visit www.symposium.serdp-estcp.org. [Anchor icon](#)

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