

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // January 28, 2025

## DoD Launches SciTechConnect

The U.S. Department of Defense announced the launch of DoD SciTechConnect, a new platform designed to enhance collaboration with the Office of the Assistant Secretary of Defense for Science and Technology. The initiative, which was unveiled on December 3, aims to empower innovators to turn bold ideas into solutions that strengthen national security.

### Click here to learn more:

<https://www.defense.gov/News/Releases/Release/Article/3999586/dod-launches-scitechconnect-to-revolutionize-defense-innovation-collaboration/>.

## DID YOU MISS OUR LAST WEBINAR?

“NSWC Indian Head Division Battle Lab”

 **WATCH NOW!**

[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

### What are the applications of hemp fibers for textiles?

The Defense Systems Information Analysis Center was asked to identify the current research being done on hemp fiber textiles for application in the U.S. Department of Defense (DoD). Limited information regarding the specific request for hemp fiber use within the DoD is identified. A general overview of hemp fibers and traditional materials used in DoD textile applications is given using relevant references. Research being conducted on... [READ MORE](#)

## UPCOMING WEBINAR



### Overview of Space Nuclear Propulsion and Power

February 26, 2025  
12:00 PM – 1:00 PM

*Presenter(s): Greg Meholic*

*Host: DSIAC*

Commercial and government agencies are exploring novel space missions that would expand or enhance various capabilities in near-Earth and interplanetary regimes. These missions may require potentially enabling propulsion and electrical power technologies that offer unique benefits and applications over conventional approaches. Systems utilizing nuclear energy, specifically from fission, may be alternatives whose capabilities extend beyond... [READ MORE](#)



## HIGHLIGHT

### U.S. Navy Enhances LCS Surface Warfare Mission Package With Counter-Unmanned Aircraft System Capability

WASHINGTON – The U.S. Navy’s Littoral Combat Ship Mission Modules Program Office has successfully delivered critical counter-unmanned aircraft system (C-UAS) capabilities to the forward-deployed, Freedom-variant littoral combat ship USS *Indianapolis* (LCS 17). [LEARN MORE](#)

## EVENTS

**SpaceCom**  
January 29–30, 2025  
Orlando, FL

**2025 Special Air Warfare Symposium**  
February 25–27, 2025  
Fort Walton Beach, FL

**2025 Pacific Operational Science & Technology (POST) Conference**  
March 3–7, 2025  
Honolulu, HI

**Military Women’s Symposium**  
March 6–7, 2025  
Washington, DC

**2025 National Fire Control Symposium**  
March 10–13, 2025  
Norfolk, VA

**Want your event listed here?**  
Email [contact@dsiac.org](mailto:contact@dsiac.org) to share your event.



## VOICE FROM THE COMMUNITY

**Adam Lawrence**  
*Energetic Materials Researcher, Naval Surface Warfare Center (NSWC) Crane*

Adam Lawrence is a researcher at NSWC Crane’s Electronic Warfare Science & Technology Division, where he focuses on active control and throttling of solid propellant combustion and the mechanisms behind radio frequency enhancement and control of metal and metal oxide combustion. His previous research involved remote, on-demand control of solid propellant burn rates, pyrotechnic light emission, and mechanical sensitivity of explosives.

## ARE YOU A SME?

If you are a contributing member of the information systems community and are willing to help others with your expertise, you are a subject matter expert (SME).

Join our team today.

**BECOME A SUBJECT MATTER EXPERT**

## ABOUT TECHNICAL INQUIRIES (TIs)

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### WHAT IS THE TI RESEARCH SERVICE?

- FREE service conducted by technical analysts
- 4 hours of information research
- Response in 10 business days or less

### WHO CAN SUBMIT A TI?

- U.S. government (federal, state, or local)
- Military personnel
- Contractors working on a government or military contract

### WHY UTILIZE THE TI RESEARCH SERVICE?

- Get a head start on your technical questions or studies
- Discover hard-to-find information
- Find and connect with other subject matter experts in the field
- Reduce redundancy of efforts across the government

To submit a TI, go to <https://dsiac.dtic.mil/technical-inquiries>

## FOR MORE: FOLLOW US ON SOCIAL

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## RECENT DSIAC TIs

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- Are frequency and location data available for sonar dome servicing on Arleigh Burke- and Ticonderoga-class destroyers?
- What is the state of the art in unmanned aerial systems (UASs) for maritime intelligence, surveillance, and reconnaissance (ISR)?
- What U.S. universities have active foundry capabilities?

## RECENT CSIAC & HDIAC TIs

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- What Risk Management Framework and Authority to Operate use authorizations of extended reality technology are available within the U.S. Army/Department of Defense?
- What work is being done to create additional safety equipment to protect a Warfighter's head from low-level blasts?
- What events, conferences, working groups, demonstrations, and exercises open to FiveEye (FVEY) participation are occurring in 2025 and of interest to the improvised threat community?



## FEATURED NEWS

### Automated Fueling-At-Sea Test Completed for Unmanned Surface Vehicle Program

The DARPA No Manning Required Ship (NOMARS) program recently completed a successful first test of at-sea refueling designed for use with the program’s Defiant unmanned surface vessel (USV). [READ MORE](#)

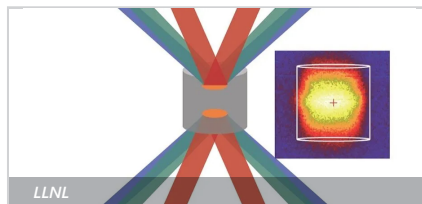
## RECENT NEWS



U.S. Navy

### U.S. Navy Declares Initial Operational Capability for the Next Generation Jammer...

Naval Air Systems Command



LLNL

### LLNL Creates World’s Brightest X-Ray Source With NIF and Novel Metal Foams

Lawrence Livermore National Laboratory



DARPA

### DARPA Exploring Ways to Assess Ethics for Autonomous Weapons

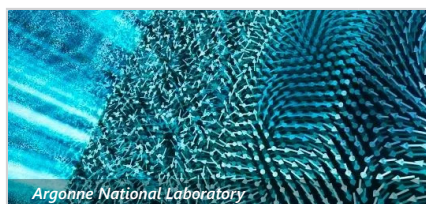
Defense Advanced Research Projects Agency



Air Force Senior Airman Jovante Johnson

### Securing Critical Minerals Vital to National Security, Official Says

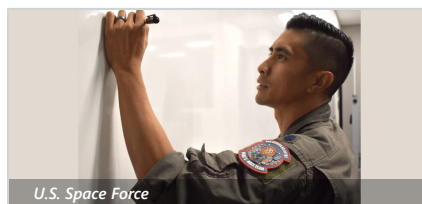
U.S. Department of Defense



Argonne National Laboratory

### Metastable Marvel: X-Rays Illuminate an Exotic Material Transformation

Argonne National Laboratory



U.S. Space Force

### National Space Defense Center Spearheads NACE Experiments

U.S. Space Command



Advanced Materials



Autonomous Systems



C4ISR



Directed Energy



Energetics



Military Sensing



Non-Lethal Weapons



RMQSI



Survivability & Vulnerability



Weapons Systems

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