

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // February 13, 2024



## NEW SPECIAL NAVY EDITION DSIAC JOURNAL

DSIAC is pleased to announce the release of our new DSIAC Journal. We dedicate this first special edition to the U.S. Navy and its celebrated tradition of embracing innovation and technology, especially in the most pivotal and volatile of times.

The DSIAC Journal features exclusive articles on new ideas and emerging trends in science and engineering.

**Click here to view and download this unique publication:**

Special Navy Edition – DSIAC

## DID YOU MISS OUR LAST WEBINAR?

“Multiscale Study of Hypersonic Vehicles: From Turbulence to Ceramics”

 **WATCH NOW!**

[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

**Are there viable pathfinder tools to compute optimized evasion paths for friendly assets under threat by hostile laser or radio frequency DEW systems? What software algorithms can...**

Hostile, deployed directed-energy weapons (DEWs) are now in place, including advanced mobile laser and radio-frequency systems. Russia has DEWs based on both high-energy lasers and millimeter wave/microwave systems that threaten friendly assets such as planes, vehicles, and fused ballistic... [READ MORE](#)

## UPCOMING WEBINAR



**Expanding Release Envelopes Into the Supersonic Regime...**

February 28, 2024  
12:00 PM – 1:00 PM

*Presenter(s): Chris Lipford, Rafael Perez*

*Host: DSIAC*

The Air Force Seek Eagle Office (AFSEO) is dedicated to store-aircraft compatibility and responsible for recommending release envelope limits that permit safe and acceptable store separation, thus delivering new capabilities to the Warfighter. The term “store” refers to objects that can be... [READ MORE](#)

## FUTURE WEBINARS

**Current State and Future Directions of Composites...**

March 20, 2024  
12:00 PM – 1:00 PM



JASPO/released

## HIGHLIGHT

### Model Release: Survivability and Lethality of Aircraft in Tactical Environments (SLATE)

Survivability and Lethality of Aircraft in Tactical Environments (SLATE) simulates a two-sided (red and blue) combat for a diverse set of players (air and ground systems) whose functions are shooters, weapons, and targets. These functions are defined across the survival/kill chain: detection/track... [LEARN MORE](#)

## EVENTS

**Fundamentals of Random Vibration and Shock Testing Open Course (San Jose, CA)**  
February 13–15, 2024  
San Jose, CA

**EWA Technical Conference and the Dixie Crow Symposium**  
March 24–27, 2024  
Robins AFB, GA

**2024 Robins Requirements Symposium**  
March 28, 2024  
Robins AFB, GA

**Sea-Air-Space 2024**  
April 8–10, 2024  
National Harbor, MD

**2024 National Fire Control Symposium**  
April 15–18, 2024  
Fort Walton Beach, FL

**2024 Combined Light Armor Survivability Panel (CLASP)**  
April 23–24, 2024  
Colorado Springs, CO

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



## VOICE FROM THE COMMUNITY

**Christopher L. (CL) Lucas**  
*Electronic Warfare (EW) Subject Matter Expert (SME)*

Christopher Lucas is a SME with over 25 years' expertise in EW, specializing in developing systems, operational testing, and strategic enemy air defenses suppression. He also serves as the SME for the 16th Air Force in the Advanced Framework for Simulation, Integration, and Modeling. He is notably recognized for submitting an Intellectual Property to SpaceX on polarimetric sensing defect detection, which has been adopted for inspecting heat tiles on SpaceX's Starship. A retired U.S. Air Force Major, he received the Bronze Star Medal.

## 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.org/technical-inquiries>

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## RECENT DSIAC TIs

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- What mobile device applications detect and report the presence of unmanned aerial vehicles?
- Is there a model that would enable a planner to reverse engineer ammunition procurement?
- Has any high-energy laser testing been conducted on flare buckets on aircraft?

## RECENT CSIAC & HDIAC TIs

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- Can you provide information on secure identity and access management solutions?
- Is there a way to detect and track chemical, biological, radiological, and nuclear contamination in a littoral/riverine environment?
- What research information exists on the U.S. Army's face/mask respirator sizing?

## FEATURED NEWS

### New Marine Radios Cement Electromagnetic Spectrum Superiority

MARINE CORPS BASE QUANTICO, Va. — In a decisive move meant to ensure dominance over the electromagnetic spectrum, Marine Corps Systems Command is on track to upgrade 50,000 legacy radios with... [READ MORE](#)

## RECENT NEWS



U.S. Navy

**NPS POTION Software Helps UAV Break Records During Arctic Test Flight**

Naval Postgraduate School



Photo courtesy of Austal USA/released

**U.S. Navy Announces Launch of Vanguard Unmanned Surface Vessel**

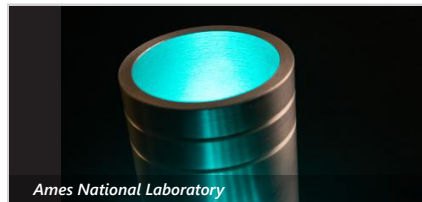
Naval Sea Systems Command



U.S. Army

**Army Futures Command Brings New Technology to the Master Gunner School**

U.S. Army



Ames National Laboratory

**Award-Winning Alloy Can Improve Engine Performance**

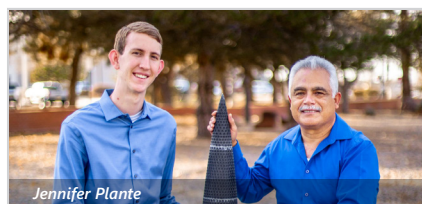
Ames National Laboratory



U.S. Navy

**Mine Mission: Marine Corps Looks to Boost Mine Countermeasure Capabilities**

Office of Naval Research



Jennifer Plante

**Sandia and UNM Collaborate to Build More Efficient Rocket**

Sandia National Laboratory



Advanced Materials



Autonomous Systems



C4ISR



Directed Energy



Energetics



Military Sensing



Non-Lethal Weapons



RMQSI



Survivability & Vulnerability



Weapons Systems

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