

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // March 26, 2024



## THREAT WEAPONS & EFFECTS (TWE) TRAINING 2024

The Joint Combat Assessment Team will host the 2024 TWE Training at Eglin Air Force Base, FL, on May 7-9. The training draws information from threat exploitation, live fire testing, and combat experience to provide a complete picture of threat lethality. Hands-on experience is provided with threat munitions/missiles, test articles, and damaged aircraft hardware.

To learn more and register, visit:  
<https://dsiac.org/events/threat-weapons-effect-training-2024/>.

## DID YOU MISS OUR LAST WEBINAR?

“Expanding Release Envelopes Into the Supersonic Regime via CFD-Driven Analysis”

[CAC holders can view the CUI slides via DoDTechipedia](#)

## NOTABLE TECHNICAL INQUIRY

**Is there research on laser-cladding materials that does not require heat treatment?**

This inquiry focuses on research on the mechanical properties of different substrate/deposited material laser-cladding combinations, specifically those that do not require a heat treatment, as well as the potential of laser cladding as an alternative to chromium plating. A wide variety of substrate and deposited materials is summarized, although there was a substantial lack of research into the desired Inconel 625 laser cladded onto martensitic stainless... [READ MORE](#)

## UPCOMING WEBINAR



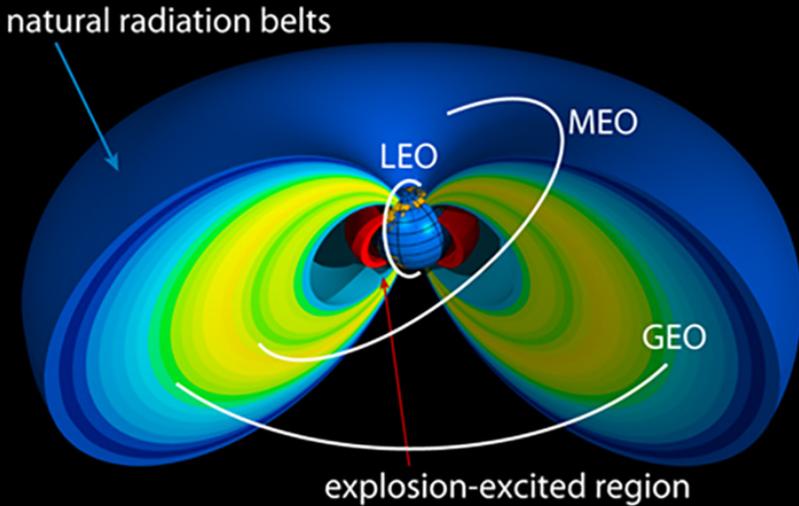
**Assessing Military Technology: Effectiveness Is the Metric That Matters**

March 27, 2024  
12:00 PM – 1:00 PM

*Presenter(s):* Bill Beglin

*Host:* DSIAAC

It is clear that effectiveness is a crucial metric when it comes to making informed decisions about investments in warfighting technologies. This presentation underscores the importance of using wargame modeling software to assess the effectiveness of military technologies, especially in the context of potential conflicts with advanced adversaries. Early-stage analysis and scenario flexibility are key to making informed resource allocation decisions. [READ MORE](#)



Los Alamos National Laboratory

## HIGHLIGHT

### Correcting an Old Space-Physics Error for Safer Satellites

Correcting 50-year-old errors in the math used to understand how electromagnetic waves scatter electrons trapped in Earth’s magnetic fields will lead to better protection for technology in space. [LEARN MORE](#)

## EVENTS

**Joint Aircraft Survivability Program (JASP) Model Users Meeting (JMUM) 2024**  
 March 26–28, 2024  
 Laurel, MD

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

**12th Annual Unmanned & Autonomous Systems Summit**  
 April 3–4, 2024  
 National Harbor, MD

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

**39th Space Foundation Space Symposium**  
 April 8–11, 2024  
 Colorado Springs, CO

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

**2024 Missile Defense Conference**  
 April 16–17, 2024  
 Washington, DC

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



## VOICE FROM THE COMMUNITY

**John Colley**  
*Senior Director of Customer Service  
 Aurora Flight Sciences*

John Colley is the senior director of customer service for Aurora Flight Sciences, where he plays a crucial role in the company's mission to advance the future of flight. He has over 34 years of experience as a national security professional directing the development and deployment of multibillion-dollar intelligence, surveillance, and reconnaissance (ISR) projects, programs, and solutions. His work in the ISR space protects critical assets around the world in both private and public sectors.

## 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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- How can non-lethal weapons be distributed and employed at the tactical, operational, and strategic levels?
- What real-life scenarios can be added to Army Techniques Publication 3-22.40?
- What is the activation energy of PBXN-110?

## RECENT CSIAC & HDIAC TIs

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- What efforts are currently being worked for quantum antennas on DoD platforms?
- What information is available on secure identity and access management solutions?
- How can technological advancements improve Warfighters' cognition in the future?

## FEATURED NEWS

### Propelling 3D Printing Into the Future

ALBUQUERQUE, N.M. —3D printing has changed the world.

It's allowed the aerospace, medical, automotive, manufacturing, and many other industries to customize parts and prototypes in ways... [READ MORE](#)

## RECENT NEWS



IARPA **LHO**

**LHO: This UAV Isn't for the Birds**

Intelligence Advanced Research Projects Activity 



U.S. Air Force

**DISA Awards OTA Contract to Develop Next Iteration of Electromagnetic Battle...**

Defense Information Systems Agency 



U.S. Air Force

**DAF Delivers Lethality at the Speed of Data During Project Convergence Capstone 4**

U.S. Space Force  



U.S. Air Force

**Cable Dawg Instructors Build Confined Space Simulator**

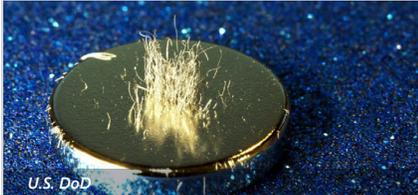
U.S. Air Force 



PPPL

**How Decades of Expertise With the Fourth State of Matter Could Bring Satellites Closer to Earth**

Princeton Plasma Physics Laboratory  



U.S. DoD

**DoD Looks to Establish "Mine-to-Magnet" Supply Chain for Rare Earth Materials**

U.S. Department of Defense  

-  Advanced Materials
-  Autonomous Systems
-  C4ISR
-  Directed Energy
-  Energetics
-  Military Sensing
-  Non-Lethal Weapons
-  RMQSI
-  Survivability & Vulnerability
-  Weapons Systems

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