

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // October 24, 2023



JOIN US FOR A BROWN BAG!

DSIAC offers Brown Bag sessions to provide greater insight into our services. These informal meetings last about 30 min and can be held virtually or in person. We can host meetings for any size team and cater topics to your specific areas of interest.

Most of our services are free to military personnel, federal government users, and supporting academia and industry partners. Contact us at contact@dsiac.org to learn more and schedule your Brown Bag today!

DID YOU MISS OUR LAST WEBINAR?

"Emerging Applications of Machine Learning and Predictive Analytics in Naval Energy Autonomy"

 [WATCH NOW!](#)

[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

What decoys are being developed and/or fielded by the DoD?

The Defense Systems Information Analysis Center (DSIAC) was asked to identify what decoys were being developed and/or fielded by the DoD. Decoys across the Services, including radars, missiles, and vehicles, were included. DSIAC staff provided responses from subject matter experts with the... [READ MORE](#)

UPCOMING WEBINAR



DMSMS and Additive Manufacturing

November 8, 2023
12:00 PM – 1:00 PM

Presenter: Kevin Boenning

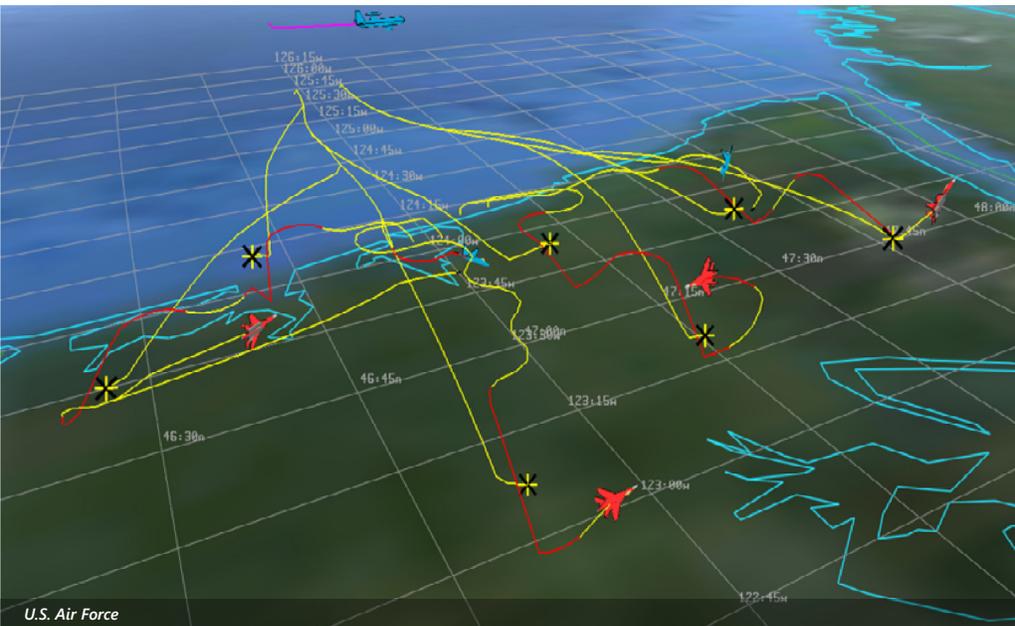
Host: DSIAC

This webinar will provide an overview on the challenges of diminishing manufacturing sources and material shortages (DMSMS) and how obsolescence can be mitigated with additive manufacturing. [READ MORE](#)

FUTURE WEBINARS

Multiscale Study of Hypersonic Vehicles: From Turbulence to Ceramics

December 13, 2023
12:00 PM – 1:00 PM



HIGHLIGHT

A New Take on Modeling & Simulation for Improved Autonomy

Multiple factors limit the potential of modern autonomous systems (e.g., self-driving vehicles and uncrewed aircraft and watercraft).

Autonomy is learned through modeling and simulation, given the expense of training in the real world. [LEARN MORE](#)

EVENTS

2023 Aircraft Survivability Symposium
October 31–November 2, 2023
Monterey, CA

Fundamentals of Random Vibration and Shock Testing Training (NTS Newark, CA)
November 7–9, 2023
NTS Newark, CA

2023 Fall AFSIM User Group Meeting
November 13–16, 2023
Virtual

Military Standard 810 (MIL-STD-810) Test Training (NTS Huntsville, AL)
December 4–7, 2023
NTS Huntsville, AL

Want your event listed here?
Email contact@dsiac.org to share your event.



VOICE FROM THE COMMUNITY

Uriah Tobey
Captain, U.S. Space Force

Uriah Tobey is a Captain in the U.S. Space Force, with 10 years of experience as a professor of mathematics and engineering. He is skilled in orbital mechanics, MATLAB, SolidWorks, and 3D printing. His interests include artificial intelligence, robotics, computer simulations, and quantum computers.

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)

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>

FOR MORE: FOLLOW US ON SOCIAL!



U.S. Army

RECENT DSIAC TIs

- What are current drone swarm C2 capabilities for U.S. Department of Defense activities?
- How have solid fuel thermobaric warheads been optimized, and have they been optimized for specific performance?
- What controlled unclassified information documents are available on performing air and missile threat characterization using AI?

RECENT CSIAC & HDIAC TIs

- What are the state-of-the-art use cases for AI and ML in aviation?
- Can you provide information about a hybrid AI method that combines physics and human recognition logic to improve AI for SLAM detection, recognition, classification, and tracking?
- Could you provide information or resources on Iran's use/employment of CBRN munitions?

FEATURED NEWS

USAF Partners With GM Defense to Successfully Power Aircraft With Electric Ground Power Unit

WRIGHT-PATTERSON AIR FORCE BASE, OHIO (AFRL) – The U.S. Air Force (USAF) Research Laboratory collaborated with the Air Force Life Cycle Management Center, Air Force Materiel Command... [READ MORE](#)

RECENT NEWS



Fleet Readiness Center East

FRCE Marks First With New F-35 Component

NAVAIR



USMC

Forging the Future: How Advanced Manufacturing Is Revolutionizing Marine...

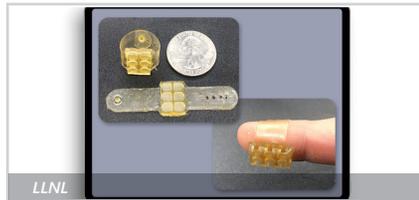
U.S. Marine Corps



BNL

Silicon Ally: Penn Engineers Grow Full Wafers of High-Performing 2D Semiconductor...

Brookhaven National Laboratory



LLNL

LLNL and Meta Engineers Develop 3D-Printed Material With Potential for More...

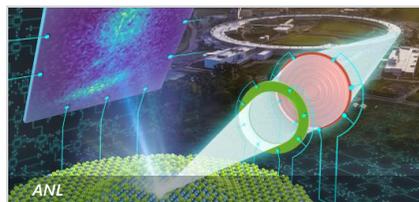
Lawrence Livermore National Laboratory



LLNL

In a First, LLNL Researchers Create Birefringent All-Glass Metasurface

Lawrence Livermore National Laboratory



ANL

Using Artificial Intelligence, Argonne Scientists Develop Self-Driving Microscopy Technique

Argonne National Laboratory



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

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