

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // January 2, 2024

CALL FOR JOURNAL ABSTRACTS!

The DSIAC Journal features exclusive unpublished articles on new ideas and emerging trends in science and technology. We are currently accepting abstracts for the next issue of our journal. If you are a subject matter expert in one of DSIAC's technical focus areas and interested in submitting an abstract, please include the following:

WHAT TO INCLUDE IN ABSTRACT:

- 200 words
- All authors
- Prospective title
- Highlighted focus area(s)
- Your organization

SUBMIT IDEAS/ABSTRACT:

journal@dsiac.org

To view previous DSIAC journals, visit <https://dsiac.org/journals>.

DID YOU MISS OUR LAST WEBINAR?

"Multiscale Study of Hypersonic Vehicles: From Turbulence to Ceramics"

 WATCH NOW!

[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

What thermal and radiative material property databases are publicly available near standard temperature and pressure (STP) conditions?

The Defense Systems Information Analysis Center received a technical inquiry for any public distribution material property databases near STP conditions, specifically for thermal and radiative properties of materials. No mention was made if the materials should be metals, nonmetals, ceramics... [READ MORE](#)

UPCOMING WEBINAR



Assessing Military Technology: Effectiveness Is the Metric...

January 10, 2024
12:00 PM – 1:00 PM

Presenter(s): Bill Beglin

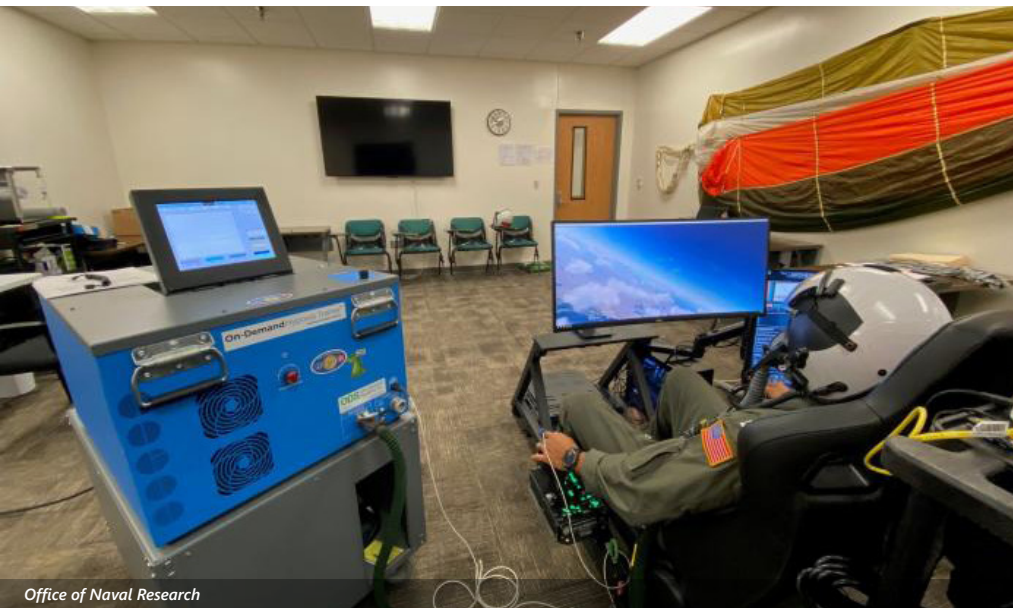
Host: DSIAC

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... [READ MORE](#)

FUTURE WEBINARS

Expanding Release Envelopes Into the Supersonic Regime...

February 28, 2024
12:00 PM – 1:00 PM



Office of Naval Research

HIGHLIGHT

New Breathing Training Program for Pilots Is Recognized by Training Industry Association

A TechSolutions-sponsored project has been honored with an award from the National Training and Simulation Association (NTSA) for its TS-872 Breathing Dynamics Trainer, created in collaboration with the Naval Aviation Training Systems and Ranges Program Office at Naval Air Systems... [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 to share your event.



VOICE FROM THE COMMUNITY

Adam Maffe

Materials Engineer, TRI Austin

Adam Maffe is a materials engineer at TRI Austin, where he focuses on soft materials and thermomechanical processing of polymers. Several topics that he has enjoyed working on include the manufacture of carbon fibers from spin dope to sized tows, characterization of an unexplored co-curing thermosetting system, and development of various topcoats related to antifouling and wear protection for defense applications.

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?

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- Military personnel
- Contractors working on a government or military contract

WHY UTILIZE THE TI RESEARCH SERVICE?

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

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RECENT DSIAC TIs

- Which GPS-guided rockets or artillery rounds are used for all Service components and with unmanned systems?
- What are nonflammable alternatives for R600a isobutane refrigerant?
- What information is available on investigating shock transmission through dissimilar metal interfaces (e.g., impact or explosive welding)?

RECENT CSIAC & HDIAC TIs

- How does the DoD use Apple computers on their networks?
- What information is available on open-source M&S of assorted missile seekers (infrared, radio frequency, laser) that generically model their capabilities at high fidelity?
- What research has been conducted on decontaminating/sanitizing military equipment to ensure it is free from biohazards before shipping outside the continental United States?

FEATURED NEWS

Defense Officials Report Progress on Replicator Initiative

Speaking from the DIU campus in Mountain View, California, DIU Director Doug Beck said officials from across the department have been keenly focused on aligning capabilities with operational needs as... [READ MORE](#)

RECENT NEWS



NASA

NASA Engineers Push Limits of Physics to Focus Light



National Aeronautics Space Administration



U.S. Marines

MRF-SEA Sensing Team Advances Sensing EAB Concepts During Exercise SAMA SAMA 23




U.S. Marine Corps



U.S. DoD

Unmanned Ground Vehicles Successfully Demonstrated at PNTAX '23



U.S. Army



LANL

New Twist on AI Makes the Most of Sparse Sensor Data

Los Alamos National Laboratory



NRL

Ghosts in the Plasma: Tracking the Footprints of Orbital Debris


U.S. Naval Research Lab













NASA/GSFC

A Gamma-Ray Pulsar Milestone Inspires Innovative Astrophysics and Applications

U.S. Naval Research Lab



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

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