

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // May 21, 2024

MAY IS NATIONAL MILITARY APPRECIATION MONTH

In 1999, the U.S. Senate designated May as National Military Appreciation Month, which serves as an opportunity for the nation to show its appreciation for past and present members of our armed services.

In addition to recognizing and honoring the service and sacrifices of our service personnel, it also brings awareness to the challenges they face and serves as a reminder of the critical role they serve in protecting our country's freedoms.

This month is a time to celebrate and pay tribute to all of the brave men and women who selflessly serve our nation. Thank you.

DID YOU MISS OUR LAST WEBINAR?

"ARL Hypervelocity Ballistic Range Experiments"

[CAC holders can view the CUI webinar via milSuite](#)

NOTABLE TECHNICAL INQUIRY

What U.S. Department of Defense (DoD) and defense contractor research or programs address assured positioning, navigation, and timing (APNT)?

The U.S. Armed Forces have become reliant on the Global Positioning System (GPS) for precision navigation for foot mobile infantry to high-end precision weapons. Assured positioning, navigation, and timing (APNT) is defined as the ability to provide operational forces continuous access... [READ MORE](#)

UPCOMING WEBINAR



Donna M. Lindner

Manufacturing, Modeling, and Characterizing Thermoplastic...

May 22, 2024
12:00 PM – 1:00 PM

Presenter(s): *Evan Patton, Robert J. Hart*

Host: *DSIAC*

This webinar focuses on developing methods for manufacturing structural thermoplastic composite materials, characterizing the mechanical properties of such composites, and modeling the static and dynamic performance in relevant military vehicle modeling and simulation (M&S) environments. [READ MORE](#)

FUTURE WEBINARS

Applying the Autonomous Ground Vehicle Reference...

June 10, 2024
12:00 PM – 1:00 PM



HIGHLIGHT

Major Milestone Reached for Key Weapons Component

ALBUQUERQUE, N.M. — Sandia National Laboratories and the Kansas City National Security Campus completed a crucial weapons component development milestone, prior to full rate production. [LEARN MORE](#)

EVENTS

NSMMS/CRASTE 2024

June 24–27, 2024
Madison, WI

Military Standard 810 (MIL-STD-810) Testing Open Course (Element Materials Technology – Boxborough, MA)

July 15–18, 2024
Boxborough, MA

17th International Detonation Symposium

August 4–9, 2024
Kansas City, MO

Want your event listed here?

Email contact@dsiac.org to share your event.



VOICE FROM THE COMMUNITY

Matthew Goldsbury

Solutions Architect, Merlin Software Suite

Matthew Goldsbury is the solutions architect of the Merlin Software Suite supporting multiple production baselines (e.g., AEA World View and MEERKAT) across the armed forces and specializing in jammer technique analysis and four-dimensional visualization of the electromagnetic spectrum battlespace. He has 18 years of experience developing mission planning and analysis software within the U.S. Department of Defense for the electromagnetic warfare community and is a coinventor of the airborne electronic attack autorouter.

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



RECENT DSIAC TIs

- What are the normal life cycle costs of large radar systems?
- What information is available on aircraft maneuvering to avoid a debris cloud caused by a cruise missile explosion?
- What information exists on using thermate grenades underwater against mines or limpets?

RECENT CSIAC & HDIAC TIs

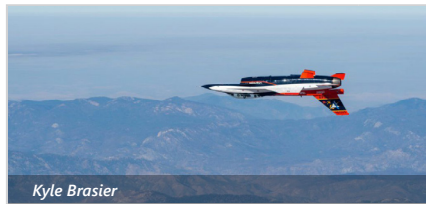
- What databases have geometry files for blue and red force aircraft and ground vehicle models in OBJ, 3DS, STL, or other formats?
- What are current and projected U.S. Department of Defense regulations for storing and distributing alternative fuels?
- Is there any research on the effects or correlations of airborne parachute operations and long-term degenerative disc disease of military paratroopers of the T-11 vs. T-10 parachutes?

FEATURED NEWS

NRL Releases "25 Technologies for the Next 25 Years," Ensuring Future Maritime Dominance

WASHINGTON – The U.S. Naval Research Laboratory (NRL) releases 25 Technologies for the Next 25 Years publication featuring a collection of science and engineering concepts under development to... [READ MORE](#)

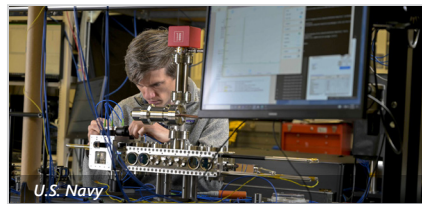
RECENT NEWS



Kyle Brasier

USAF Test Pilot School and DARPA Announce Breakthrough in Aerospace Machine Learning

U.S. Air Force Research Laboratory



U.S. Navy

NRL Charters Navy's Quantum Inertial Navigation Path to Reduce Drift

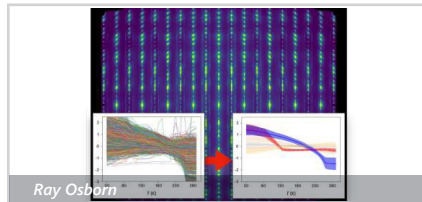
U.S. Naval Research Laboratory



U.S. Air Force

AFRL Researchers Pave the Way to Lighter, Faster Additively Manufactured Rocket Engines

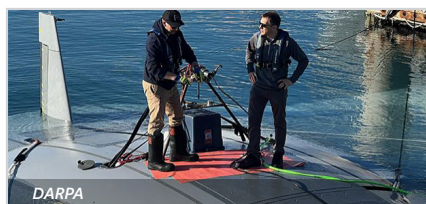
U.S. Air Force



Ray Osborn

Machine-Learning Algorithm Reveals Long-Theorized Glass Phase in Crystal

Argonne National Laboratory



DARPA

Manta Ray UUV Prototype Completes In-Water Testing

Defense Advanced Research Projects Agency











DARPA

RACER Speeds Into a Second Phase With Robotic Fleet Expansion and Another...

Defense Advanced Research Projects Agency



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

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