DEFENSE Systems Digest

The Latest From the Defense Systems Information Analysis Center // April 15, 2025

READ EXCLUSIVE ARTICLES IN THE LATEST DSIAC JOURNAL

DSIAC is excited to announce the release of our latest DSIAC Journal, which features exclusive, publicly releasable articles on new and emerging science, engineering, and technology within the defense community.

This issue features exclusive articles on ballistics, mobile robots, microdiode laser ignition, aerothermal heating in hypersonic vehicles, and unmanned aerial systems in the battlefield.

To view and download this unique publication, visit: https://dsiac.dtic.mil/journals/volume-9-number-1/.

DID YOU MISS OUR LAST WEBINAR?

"Overview of Space Nuclear Propulsion and Power"

WATCH NOW!

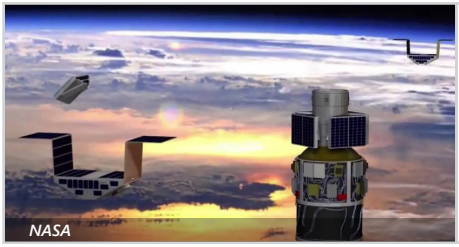
or download the slides

NOTABLE TECHNICAL INQUIRY

How is the U.S. Department of Defense conceptualizing the ultralow-cost unmanned aircraft system phenomenon after its widespread success in Ukraine?

The U.S. Department of Defense (DoD) conceptualizes ultralow-cost unmanned aircraft systems (UASs) – often called "small UAS" (sUASs) – as both a threat to its operations and an opportunity for force multiplication. Counter-sUAS (C-sUAS) operations have become an organizational and financial... **READ MORE**

UPCOMING WEBINAR



Launch Site Selection Using Inland Commercial Spaceports...

April 30, 2025
12:00 PM – 1:00 PM

Presenter(s): *Theresa Sitter* ***Host:*** *DSIAC*

This webinar presentation contains CUI and is therefore limited to those with a CAC, ECA, or PIV certificate. Log in to our Member Portal to register.

As nontraditional, inland spaceports start to become operational, there is a need to understand the viability of deploying satellite constellations from these potential commercial offerings for launching. This work investigates how utilizing a small launch vehicle with these nontraditional... **READ MORE**

FUTURE WEBINAR

Digital Twin Research and Development for a Metal Additive Manufacturing Process

May 14, 2025
1:00 PM – 2:00 PM

U.S. Marines

HIGHLIGHT

Marine Corps Launches Attack Drone Team

MARINE CORPS BASE QUANTICO, Va. – On January 3, 2025, the Commanding Generals of the Training Command, Maj. Gen. Anthony M. Henderson, and the Marine Corps Warfighting Laboratory, Brig. Gen. Simon M. Doran, established the Marine Corps Attack Drone Team (MCADT) in response to the rapid proliferation of armed first-person-view (FPV) drone technology and tactics.

The creation of MCADT comes in response to the rapid proliferation of armed FPV drone technology and tactics observed in modern conflicts, particularly in Eastern Europe. As emerging threats continue to evolve, the Marine Corps is prioritizing the integration of FPV drone capabilities to enhance lethality and operational effectiveness across the Fleet Marine Force. **LEARN MORE**

EVENTS

Aircraft Combat Survivability Short Course (ACSSC) 2025
June 10–12, 2025
San Diego, CA

The 2025 NSMMS & CRASTE Symposium
June 23–26, 2025
Norfolk, VA

Warrior East
June 25–26, 2025
Virginia Beach, VA

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

VOICE FROM THE COMMUNITY

Samantha McBirney
Engineer, RAND

Samantha McBirney is an engineer at RAND, where she works on emerging technologies, industrial base operations and policy, and medical readiness and logistics. Her recent focus has involved advanced manufacturing and how leveraging this subset of technologies (to include additive manufacturing) within the Defense Department can contribute to increased readiness and better position the organic industrial base to serve as a source of production during national emergencies.

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).

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TECHNICAL INQUIRIES (TIs)

WHAT IS THE TI RESEARCH SERVICE?

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RECENT DSIAC TIs

- What experiments and models exist for liquid fuel injection or spray in hypersonic fuels?
- What information is available on development efforts for unmanned systems that can transition between air and water (surface and/or below surface)?
- How is the most recent U.S. Strategic Command (STRATCOM) security classification guide obtained?

MORE DSIAC INQUIRIES

RECENT CSIAC & HDIAC TIs

- What information is available on secure identity and access management solutions?
- Can the U.S. Department of Defense Information Analysis Centers provide an update on the status of nuclear small modular reactor development?
- What feedback is available regarding the use of airborne seed-dispersion methods in support of large-scale tree planting for reforesting?

VIEW MORE TIs

The Information Analysis Centers answer more inquiries outside the scope of DSIAC's focus areas. To search more research topics, visit our sister websites to expand your search.

CSIAC INQUIRIES **HDIAC INQUIRIES**

FEATURED NEWS

Air Force Awards Contract for Next Generation Air Dominance (NGAD) Platform, F-47

WASHINGTON (AFNS) — The U.S. Department of the Air Force recently announced the contract award for the Engineering and Manufacturing Development (EMD) of the Next Generation Air Dominance... **READ MORE**

RECENT NEWS

U.S. Air Force

Air Force Special Operations Command Accepts the First Missionized OA-1K Skyraider II

U.S. Air Force Special Operations Command


U.S. Army

Soldiers Experiment With Next-Generation C2 at Project Convergence

U.S. Army Futures Command


DARPA

Taking Quantum Sensors Out of the Lab and Into Defense Platforms

Defense Advanced Research Projects Agency


U.S. Navy

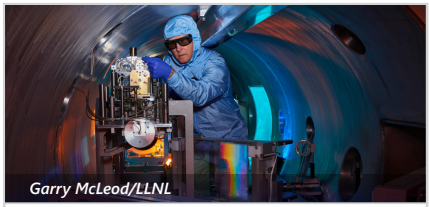
Marines, Air Force Fight as a Joint Force for the First Time in the Navy's Joint...

Naval Air Systems Command


Staff Sgt. Adam Shanks

X-37B Orbital Test Vehicle Concludes Seventh Successful Mission

U.S. Space Force


Garry McLeod/LLNL

A Brighter Future for the Jupiter Laser Facility

Lawrence Livermore National Laboratory

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