

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // March 28, 2023

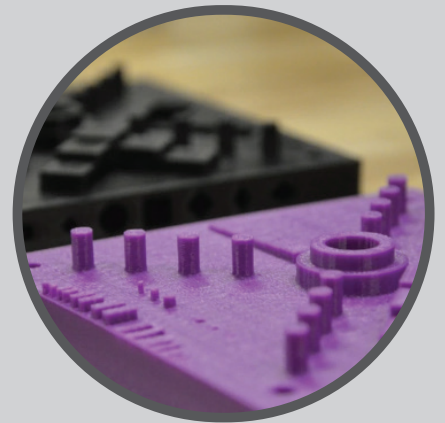


U.S. Army

NOTABLE TECHNICAL INQUIRY

How do private industry and U.S. government bodies determine airworthiness of additively manufactured (AM) parts?

The U.S. Department of Defense (DoD) has made some progress in certifying AM parts for airworthiness but has been limited to the lab, with significant engineering and inspections for each part. Over the last two decades, each branch of the DoD developed its own processes for AM. With so many competing processes, the individual processes have fragmented the certification process, slowing the widespread acceptance of AM. [READ MORE](#)



SNEAK PEEK

UPCOMING WEBINAR:

State of Machine Learning for Optimization of Additive Manufacturing to Support Military Applications

DATE:

March 29, 2023

TIME:

12:00 PM

PRESENTED BY:

Dr. Satish S. Rajaram

HOST:

DSIAC



VOICE FROM THE COMMUNITY

Dr. Blake Stamps

Bioinformatics Lead, RXEB

Dr. Blake Stamps is the bioinformatics lead within the Biomaterials Branch of the Materials and Manufacturing Directorate at the U.S. Air Force Research Laboratory. His group leads a number of projects ranging from Muskox genetics identifying new possible materials to high-throughput DNA/RNA sequencing of aircraft to understanding how the microbiome influences the built environment. They also utilize reproducible informatics workflows to make science more agile and accessible across the U.S. Department of Defense computing enterprise.

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MATTER EXPERT**

23
SPRING ISSUE

published by the
Joint Aircraft
Survivability
Program Office

AIRCRAFT SURVIVABILITY

Combating Corrosion: Highlights in the Fight Against Naval Aviation's No. 1 Enemy

page 8

DOT&E Strategy Update 2022: Transforming T&E to Enable Delivery of the World's Most Advanced Warfighting Capabilities at the Speed of Need

[JASP-online.org](http://jasp-online.org)

HIGHLIGHT

Spring 2023 Aircraft Survivability Journal Release

The Joint Aircraft Survivability Program Office is pleased to announce the release of the 2023 spring issue of the Aircraft Survivability Journal. The journal is viewable and available for electronic download at <http://jasp-online.org/asjournal/>. **LEARN MORE**

FEATURED NEWS

Army Techniques Publication - Electromagnetic Warfare Techniques

ATP 3-12.3 provides doctrinal guidance and direction to the Army for conducting electromagnetic warfare during Army operations. This publication provides a description of electromagnetic warfare roles, relationships, responsibilities, and capabilities to support Army and joint operations. **READ MORE**



Image: U.S. ARMY



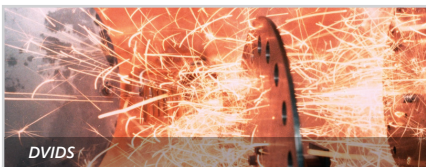
LEARN MORE

WEBINARS

State of Machine Learning for Optimization of Additive Manufacturing to Support Military Applications

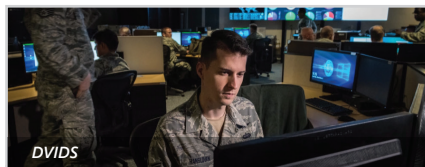
Presented: March 29, 2023 12:00 PM – 1:00 PM
Presenter: Dr. Satish S. Rajaram
Host: DSIAC

Additive manufacturing (AM) of plastic and metallic components offers a way to revolutionize and improve the military supply chain by providing the ability to build at the point of use, as components are demanded, and addressing components no longer manufactured or supported for legacy weapons systems. However, AM processing parameters are... [LEARN MORE](#)



Electromagnetic Spectrum Operations

April 12, 2023 12:00 PM



Improving Cyber Survivability for Weapon System Mission Assurance

April 13, 2023 12:00 PM

EVENTS

Threat Weapons & Effects 2023

April 25–27, 2023

NSMMS & CRASTE Joint Symposia

June 26–29, 2023

Military Standard 810 (MIL-STD-810) Test Training (NTS Chicago, IL)

July 10–13, 2023

Fundamentals of Random Vibration and Shock Testing Training (NTS Silicon Valley, CA)

November 7–8, 2023

Military Standard 810 (MIL-STD-810) Test Training (NTS Huntsville, AL)

December 4–7, 2023

Want your event listed here?






Email contact@dsiac.org, to share your event.

DID YOU MISS OUR LAST WEBINAR?

“Development and Utilization of TIPS Within the FRACTALS at the DEVCOM Analysis Center”

WATCH NOW!

[or download the slides](#)

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

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RECENT NEWS



Sandia National Labs

World's Fastest Burst-Mode X-Ray Camera Hits the Road

Sandia National Labs



NAVAIR

From Demo to Depot: New Application of Cold Spray Technology Arrives at FRCE

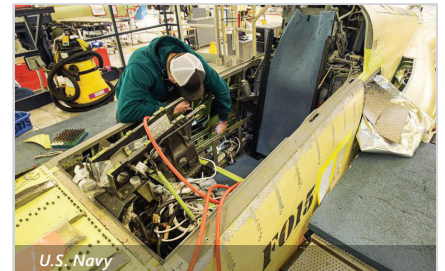
U.S. Navy



DVIDS

U.S. Army Yuma Proving Ground Conducts Groundbreaking Munition Test

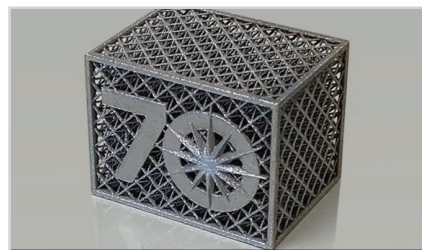
U.S. Army



U.S. Navy

Fleet Readiness Center Southeast Innovates to Support Fleet Need for Air Combat Training Aircraft

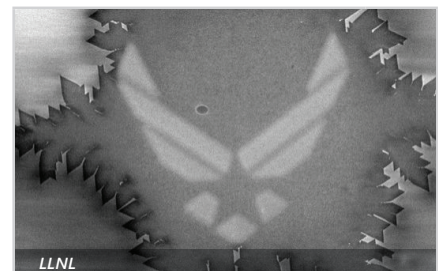
U.S. Navy



LLNL

LLNL Researchers Develop Method for Real-Time Defect Detection in Metal 3D-Printed Parts

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AFRL Researchers Contribute to Prestigious Scientific Journal ACS Nano

U.S. Air Force

