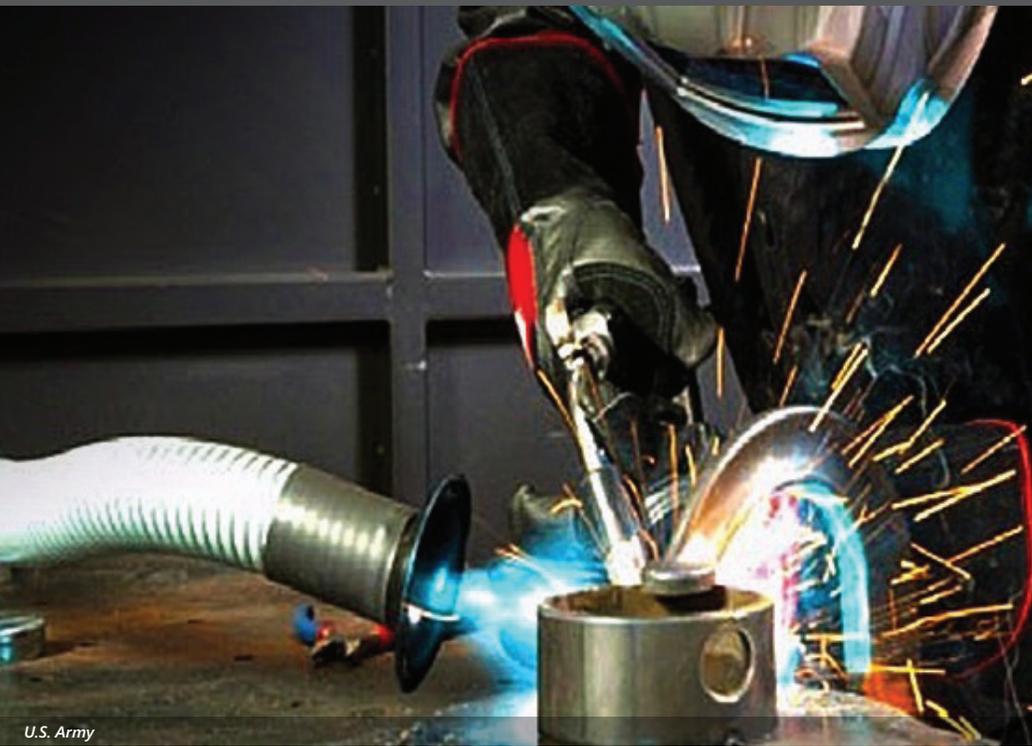


DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // March 7, 2023

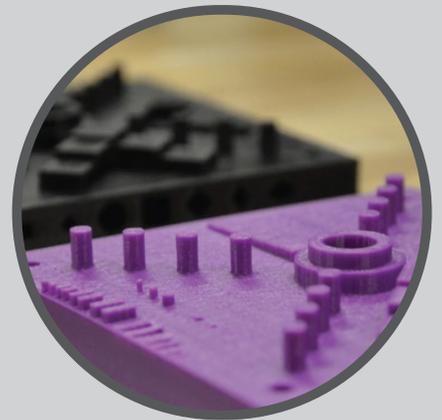


U.S. Army

NOTABLE TECHNICAL INQUIRY

What are DoD-approved alternatives to the hexavalent chromium in aerospace coatings for use on government/military aircraft (aluminum) and/or ground support equipment (steel)?

The Defense Systems Information Analysis Center (DSIAC) received a technical inquiry about approved hexavalent chrome replacements for U.S. Department of Defense (DoD) applications. DSIAC subject matter experts performed a study and identified several works that provide lengthy discussions about the available options. In addition, they identified a National Aeronautics and Space Administration database that... [READ MORE](#)



SNEAK PEEK

UPCOMING WEBINAR:
*State of Machine Learning
for Optimization of Additive
Manufacturing to Support Military
Applications*

DATE
March 15, 2023

TIME:
12:00 PM

PRESENTED BY:
Dr. Satish S. Rajaram

HOST:
DSIAC



VOICE FROM THE COMMUNITY

Dr. Jing Zhang

Associate Professor of Mechanical Engineering

Dr. Zhang's recent research interests include additive manufacturing and ceramic materials for energy applications. He is collaborating with the U.S. Army Combat Capabilities Development Command (CCDC) Army Research Laboratory (CRADA 19-013-001), Praxair Surface Technologies, and Argonne National Laboratory to develop novel coating technologies on 3-D-printed metals. The process will significantly improve mechanical and thermal properties of 3-D-printed materials.

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HIGHLIGHT

Mixed-Hazardous Waste Consequence Management Event | Real-Time Tabletop Exercise

This training event is a three-day, in-person tabletop exercise (TTX) hosted by the Homeland Defense & Security Information Analysis Center (HDIAC). Day 1 will provide a detailed background briefing on the scenario and presentations from chemical, biological, radiological, and nuclear subject matter experts (SMEs). The TTX will occur on Day 2, simulating the first eight hours of a nationally significant consequence management... [LEARN MORE](#)

FEATURED NEWS

New Graduate Certificate in Hypersonic Flight

The U.S. Air Force Institute of Technology's Department of Aeronautics and Astronautics now offers a graduate certificate program in hypersonic flight. The field of hypersonics has emerged as a technical discipline that is critical to ensure the United States will be able to fight and win future conflicts. The graduate certificate in hypersonic flight is specifically designed to produce technical professionals who can understand, evaluate, and communicate the unique complexities of the hypersonic flight environment. [READ MORE](#)



Image: NASA's Langley Research Center



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WEBINARS

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

Presented: March 15, 2023 12:00 PM – 1:00 PM

Presenter: Dr. Satish S. Rajaram

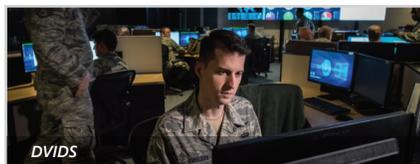
Host: DSIAC

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

JASP Model Users Meeting (JMUM) 2023

March 20–23, 2023

Military Standard 810 (MIL-STD-810) Test Training (NTS Los Angeles, CA) (LAX)

March 27–30, 2023

Aircraft Combat Survivability Short Course 2023

April 11–13, 2023

Threat Weapons & Effects 2023

April 25–27, 2023

NSMMS & CRASTE Joint Symposia

June 26–29, 2023

Want your event listed here?

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

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-  Survivability & Vulnerability
-  Weapons Systems

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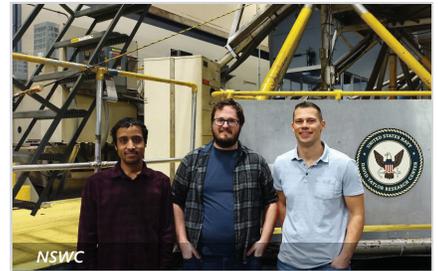
RECENT NEWS



NAVSEA

New Additive Manufacturing Printer Enables Sailors to "Think Outside the Box"

U.S. Navy



NSWC

Carderock Inventors Patent New Modeling Software

U.S. Navy



U.S. Navy

Protect Unmanned Surface Vessels in the Gray Zone

U.S. Marines Corps



U.S. Air Force

DoD Artificial Intelligence Agents Successfully Pilot Fighter Jet

U.S. Air Force



DIU

U.S. Department of Defense to Prototype Commercial Batteries to Electrify Future Military Platforms

Defense Innovation Unit



LLNL

Star Power: Blazing the Path to Fusion Ignition

LLNL

