DEFENSE Systems Digest

The Latest From the Defense Systems Information Analysis Center // July 12, 2022

SUBMIT A TECHNICAL INQUIRY

U.S. Air Force

NOTABLE TECHNICAL INQUIRY

Is there ultraviolet C data for effectively disinfecting touch surfaces exposed to SARS-CoV-2, and does that data contain the same applications for aircraft or other transportation interiors?

The Defense Systems Information Analysis Center (DSIAC) was asked to determine if there was any relevant research and data on the efficacy of ultraviolet C (UVC) germicidal irradiation light to effectively disinfect touch surfaces exposed to SARS-CoV-2. In particular, DSIAC was asked to determine if there are applications of the same UVC wavelength being used in aircraft, subway, and other transit interiors. UVC light was one of four methods of National Institutes of Health-approved... **READ MORE**

SNEAK PEEK

UPCOMING WEBINAR:
Human Agent Interaction for Intelligent Squad Weapon

DATE:
July 13, 2022

TIME:
12:00 PM

PRESENTED BY:
Mr. Andrew Tweedell

HOST:
DSIAC

VOICE FROM THE COMMUNITY

Steve Rowley

Division by Zero (DbZ) Labs

Steve Rowley is the founder of DbZ Labs, a testing lab that specializes in spray-drying process development, scale-up, and manufacturing of powdered products. The lab has provided development services to over 200 customers, commercialized novel powdered products, and currently provides spray-drying expertise to the U.S. Army and Air Force in their efforts to develop various novel nitramine-based, secondary, high-explosive compositions. Steve began his career maintaining scientific equipment and building structural apparatuses for testing. He then worked in an oxidation process development lab, where he supported the design, construction, and startup of the world's first commercial glucaric acid manufacturing plant. He is a former Marine and holds one patent.

BECOME A SUBJECT MATTER EXPERT

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HIGHLIGHT

Save the Date for FY22 JPR

The 2022 JAS Program Review (JPR) will be held on 27-29 September 2022. The location will be at Red Flag on Nellis Air Force Base, NV.

The registration link for the JPR will be sent out in a few more weeks once the site is completed. **LEARN MORE**

FEATURED NEWS

U.S. Department of Defense (DoD) Responsible Artificial Intelligence Strategy and Implementation Pathway

The DoD has released a document providing a roadmap on how it will advance the responsible use of artificial intelligence (AI).

The Responsible Artificial Intelligence (RAI) Strategy and Implementation Pathway lists proposed actions to promote responsible AI use across the department based on six foundational tenets: RAI governance; Warfighter trust; AI product and acquisition life cycle; requirements validation; responsible AI ecosystem; and AI workforce. **READ MORE**

Image: U.S. DoD

WEBINARS

Human Agent Interaction for Intelligent Squad Weapon

Presented: *July 13, 2022 12:00 PM - 12:45 PM*
Presenter: *Mr. Andrew Tweedell*
Host: *DSIAC*

New priorities have emerged from the Army's Multi-Domain Operations (MDO) concept that establishes the importance of artificial intelligence (AI) and machine learning (ML) on a continuously evolving battlefield. The current iterative cycle of continuously collecting data, discarding irrelevant data, annotating objects offline, and then training and deploying new models is resource-intensive and unsustainable for chaotic combat environments. We propose a unique human-autonomy interaction approach that leverages a Soldier's innate adaptability to changing environments and emergent threats. Opportunistic sensing is an approach in which operational data required for AI/ML algorithms are obtained as unobtrusively as possible from tasks a Soldier is already... **LEARN MORE**

Microwave and Millimeter-Wave Imaging Techniques For Nondestructive Evaluation (NDE)

August 17, 2022 12:00 PM

X-Ray Computed Tomography as a Reverse Engineering Tool

September 1, 2022 12:00 PM

EVENTS

2022 MSS Tri-Service Radar Symposium (TSRS)

July 11-15, 2022

Image: U.S. Navy

Electric Aircraft Symposium

July 23-24, 2022

Image: U.S. Navy

Fundamentals of Random Vibration and Shock Testing Open Course (NTS Longmont, CO)

September 13-15, 2022

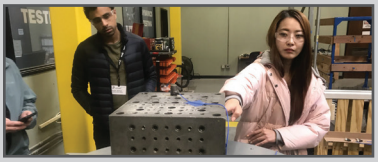

Image: Equipment Reliability Institute

Want your event listed here?

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

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

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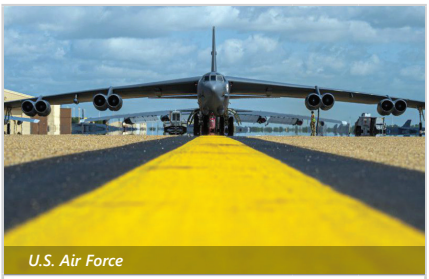
DSIAC Defense Systems Information Analysis Center

RECENT NEWS

U.S. Air Force Selects Future Aircrew Helmet

Survivability & Vulnerability



New BLOS Capability on the Horizon for B-52s - First IRIS Air Demo Complete

C4ISR; Military Sensing

How the Army Is Using Advanced Technology to Modernize Training

RMQSI

U.S. Navy, Air Force Running "Capstone Test" of New High-Power Microwave Missile

Directed Energy

Revealing the Impact of Non-Lethal Weapons

Non-Lethal Weapons

DoD Accelerating Innovative Technologies, Enabling Manufacturing Workforce

Advanced Materials; RMQSI