

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // April 16, 2024

2024 COMBINED LIGHT ARMOR SURVIVABILITY PANEL (CLASP)

CLASP is a working-level meeting for engineers and technical personnel from science and technology development, system integration, and program management to exchange information on armor, survivability, lethality, and ballistics. It is an ideal opportunity for technology developers to get direct feedback from platform systems engineers and for leading industry and academic research teams to meet with their government counterparts and discuss current programs and issues to the survivability community.

To learn more and to register, click here: [2024 Combined Light Armor Survivability Panel \(CLASP\) – DSIAC.](#)

DID YOU MISS OUR LAST WEBINAR?

“Assessing Military Technology: Effectiveness Is the Metric That Matters”

 WATCH NOW!

NOTABLE TECHNICAL INQUIRY

What research is available for Al-TiO₂ metal matrix composites (MMCs)?

The aim of this comprehensive literature review conducted on titanium dioxide (TiO₂) aluminum metal matrix composites (ALMMCs) is to explore their properties and potential applications, focusing on various aluminum alloy series, including 1xxx, 2xxx, and 6xxx. While there was a limited amount... [READ MORE](#)

UPCOMING WEBINAR



Courtesy Photo

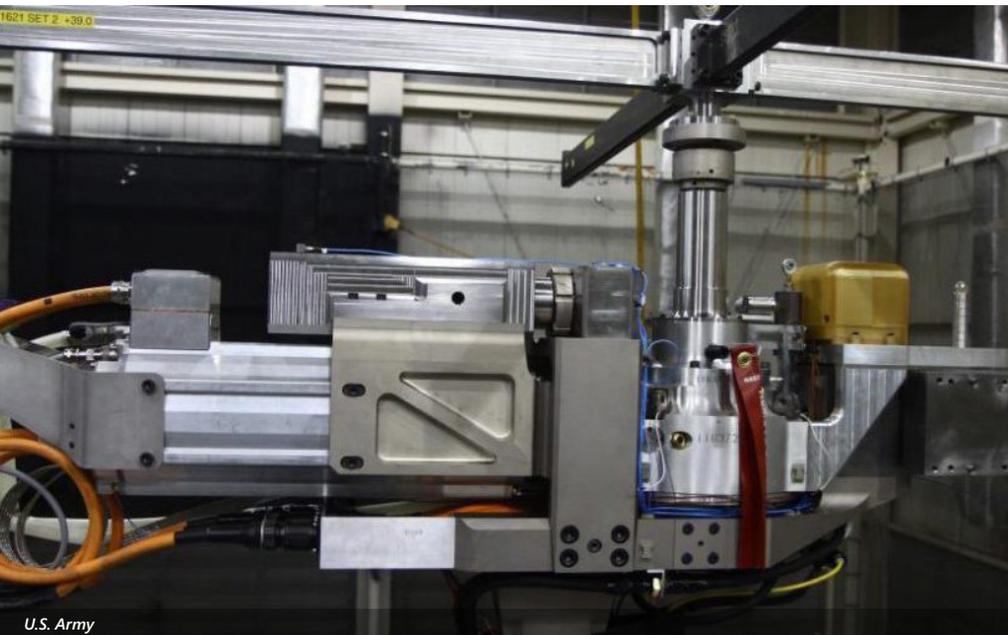
ARL Hypervelocity Ballistic Range Experiments

April 24, 2024
12:00 PM – 1:00 PM

Presenter(s): *Dr. Joseph D. Vasile*

Host: *DSIAC*

The U.S. Army Research Laboratory's (ARL's) Transonic Experimental Facility (TEF) is an all-purpose research firing range that has been used to investigate propulsion, materials, flight, guidance, and terminal effects across a spectrum of launch (mechanical) and flight (thermal) loads, including speeds from Mach 0.5 to 5+. Currently, there are very few experimental ground facilities for hypersonics in the country and even fewer experimental free-flight facilities. An endeavor was undertaken to explore the feasibility of acquiring both qualitative and quantitative data via optical diagnostic techniques... [READ MORE](#)



U.S. Army

HIGHLIGHT

Researchers Create State-of-the-Art Test Stand for Future Vertical Lift Testing

REDSTONE ARSENAL, Ala. – When you are building the future of Army aviation, it is not enough to create revolutionary aviation technology. Sometimes you must also invent the infrastructure to make that technology... [LEARN MORE](#)

EVENTS

Modular Open Systems Approach (MOSA) for Defense Summit

April 17–18, 2024
National Harbor, MD

2024 Combined Light Armor Survivability Panel (CLASP)

April 23–24, 2024
Colorado Springs, CO

Michigan Defense Expo

April 23–25, 2024
Warren, MI

Cyber Electromagnetic Activity (CEMA) 2024 Conference

April 30–May 2, 2024
Aberdeen, MD

Threat Weapons & Effects (TWE) Training 2024

May 7–9, 2024
Eglin AFB, FL

Air Dominance Summit

May 14–15, 2024
Las Vegas, NV

Want your event listed here?

Email contact@dsiac.org to share your event.



VOICE FROM THE COMMUNITY

Ritesh Narang, Ph.D.

*Scientist, Image Science Engineering
L3Harris Technologies*

Dr. Narang is an image processing and algorithm development subject matter expert with an extensive background in multicamera computer vision applications. His work has included algorithm development efforts in the Defense Department ranging from electro-optical/infrared to radar to radio frequency. At L3Harris, he has been a lead scientist in developing 360° situational awareness systems and artificial intelligence/machine-learning algorithms for target detection and tracking.

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MATTER EXPERT**

ABOUT TECHNICAL INQUIRIES (TIs)

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RECENT DSIAC TIs

- What is the most current, ready-to-deploy technology available to run autonomous logistical convoys given the conditions and geography of the Central Command Area of Responsibility? What are the benefits and risks of utilizing these systems?
- What processes exist for rendering riot control agents as materials designated as safe?
- What data is available on initial penetration effects of secondary V50 ballistic limits for composite materials?

RECENT CSIAC & HDIAC TIs

- What are the state-of-the-art use cases for augmented/virtual/extended reality in aviation maintenance?
- Is there a group coordinating the elimination of per- and polyfluorinated substances, also known as the "forever chemicals," in U.S. Department of Defense materiel?
- What information is available on using counter unmanned aerial systems within the homeland defense/security, consequence management, or civil protection spaces?

FEATURED NEWS

NSWC Crane to Build New Hypersonics-Focused Research and Development Capability

CRANE, Ind. – Naval Surface Warfare Center, Crane Division (NSWC Crane) held a groundbreaking ceremony for a new strategic and hypersonics research, development, test, and evaluation (RDT&E) facility... [READ MORE](#)

RECENT NEWS



U.S. Army Test Command

Command and Control on the Move

U.S. Army



U.S. Air Force

Specialized Drone Testing Comes to Travis AFB

U.S. Air Force Research Laboratory



LANL

New Technology Improves Space Weather Monitoring

Los Alamos National Laboratory



PNNL

Understanding Corrosion to Enable Next-Generation Metals

Pacific Northwest National Laboratory



U.S. Army

Next Generation Squad Weapon Tested at Army's Cold Regions Test Center

U.S. Army



Canva

U.S. Department of Defense to Expand Manufacturing of Printed Circuit Board...

U.S. Department of Defense



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

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