

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // January 21, 2025

JOINT CIVIL & DOD CBRN SYMPOSIUM

The 13th Annual Joint Civil & U.S. Department of Defense Chemical, Biological, Radiological, and Nuclear (CBRN) Symposium will explore efforts and strategies to address and mitigate current and emerging CBRN threats and challenges. The event is designed to foster collaboration and innovation in CBRN defense, bringing together experts, innovators, and leaders from government, military, academia, and industry to share insights, strategies, and best practices in CBRN defense, preparedness, and response.

Learn more here:

<https://cbrn.dsigroup.org/>.

DID YOU MISS OUR LAST WEBINAR?

“Security Implications for the United States From Iranian and...”

 **WATCH NOW!**

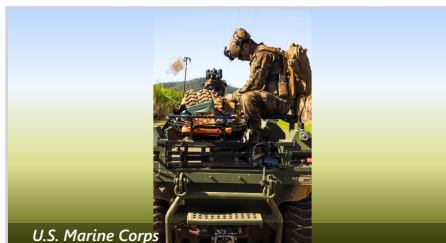
[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

What efforts are underway by the U.S. Department of Defense/ other government agencies to identify and mitigate nefarious uses of bioprinting to create, modify, or enhance biological threats/ weapons?

This technical inquiry is related to the HDIAC webinar “Printing Destruction: AM, WMD, and the Emerging Challenges to Security” presented by Gregory Nichols and in support of the presentation “Illicit Weapons Production: Assessing Gaps in Additive Manufacturing Security” at the 2023 International Conference on Advanced Manufacturing. The research and publications supplied to the inquirer can be summarized with potential nefarious... [READ MORE](#)

UPCOMING WEBINAR



U.S. Marine Corps

**Autonomous Platforms for
Casualty Evacuation: State of
the Art and Future Directions**

January 30, 2025
12:00 PM – 1:00 PM

Presenter(s): Gregory Nichols, MPH, CPH

Host: HDIAC

The United States faces the return of large-scale combat operations against peer and near-peer competitors—an environment not seen in over 70 years. This creates multiple challenges like managing overwhelming numbers of casualties and providing medical care with limited resources. Fighting more technologically advanced and prepared adversaries also creates tactical and operational issues like medical mobilization in contested air... [READ MORE](#)



U.S. Army

HIGHLIGHT

USARIEM Is Updating Guidance on Cold-Weather Injuries

FORT DETRICK, Md. — As geopolitical competition in the Arctic region continues to accelerate, senior leaders need to be confident that the Warfighters under their command will be able to operate at peak effectiveness for long periods in extreme cold. That's why experts in nutrition, physical performance, and extreme environments from the U.S. Army... [LEARN MORE](#)

EVENTS

The 17th Annual Nuclear Deterrence Summit
January 27–29, 2025
Arlington, VA

Homeland Security Cybersecurity and Infrastructure Conference
February 26–27, 2025
Atlanta, GA

2025 AMSUS Annual Meeting
March 3–6, 2025
National Harbor, MD

2025 Pacific Operational Science & Technology (POST) Conference
March 3–7, 2025
Honolulu, HI

Joint Civil & DoD CBRN Symposium
March 11–12, 2025
Washington, DC

Critical Infrastructure Protection & Resilience North America
March 11–13, 2025
Houston, TX

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



VOICE FROM THE COMMUNITY

Bo Liu, Ph.D.
Chemist, United States Army Criminal Investigation Division (USACID)

Dr. Liu is currently working as a chemist for USACID. She has an extensive background in research project management and forensic chemistry analysis supporting a wide variety of military operations and has experience in developing high-performance polymers and composites and formulating specialty additives. Her specialties include explosives and related precursors, energetic materials, controlled substances, and petroleum-based chemicals.

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ABOUT TECHNICAL INQUIRIES (TIs)

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RECENT HDIAC TIs

- Can data, studies, and reports relevant to the use of Dahlgren Decon and FiberTect (both by First Line Technology) as a human skin decontaminant be provided?
- What biometric technologies are used to scan the occupants of a vehicle at speed?
- What is the state of the science for multisensory cueing (visual, haptic, audio) for military aircraft?

RECENT CSIAC & DSIAC TIs

- What are the use cases of intent-based networking in U.S. Department of Defense tactical networks?
- What information is available on government- and commercial-off-the-shelf, low-cost, tactical drone systems that can be deployed for counter-unmanned aerial vehicle operations?
- Who are the current leading researchers in additive manufacturing of 17-4 precipitation-hardening (PH) steels?

FEATURED NEWS

DHS S&T Announces Award to Pacific Northwest National Laboratory for Counter-Fentanyl Efforts



WASHINGTON – The Department of Homeland Security (DHS) Science & Technology Directorate (S&T) is further strengthening its counter-fentanyl partnership with the U.S. Department of Energy’s Pacific... [READ MORE](#)

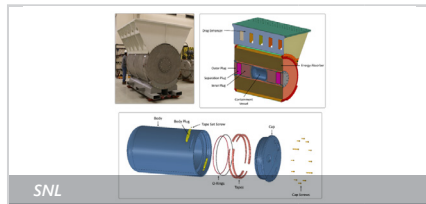
RECENT NEWS



Rachel Green/ORNL, U.S. Dept. of Energy



Doppler Radar Tracks Non-Weather Debris to Aid Emergency Response

Oak Ridge National Laboratory  



SNL


Design and Certification of a Plutonium Air Transportation Package

Sandia National Laboratories  



ERDC

ERDC Celebrates Army’s First Hydrogen-Powered Nanogrid

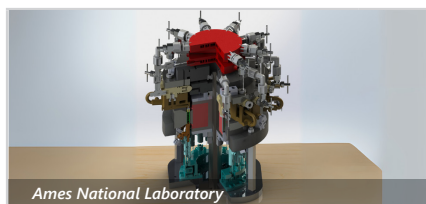
Engineer Research and Development Center 



Craig Fritz


Detecting Battery Failures Quicker

Sandia National Laboratories 



Ames National Laboratory


The Future of More Sustainable Cooling and Heating Technology Could Be...

Ames National Laboratory 



Sophie Espinosa

Successful ERDC Seismic Test Advances Readiness of Mass Timber Shelter

Engineer Research and Development Center 

-  Alternative Energy
-  Biometrics
-  CBRNE Defense
-  Critical Infrastructure Protection
-  Cultural Studies
-  Homeland Defense & Security
-  Medical
-  Weapons of Mass Destruction

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