

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // February 11, 2025

## CALL FOR PRESENTATION ABSTRACTS

HDIAC is proud to host the 2025 Public Health in a Migrant Crisis Tabletop Exercise during the week of May 5, 2025. This year's exercise will focus on operations in camps designed for refugees, internally displaced persons, and other people in need of international protection. We are seeking presentations on new and novel research which can positively impact management of public health in such a scenario.

HDIAC will accept abstracts for presentations through February 28, 2025. Submitters will receive an answer no later than March 10, 2025..

**Click here for more information:**  
<https://hdiac.dtic.mil/call-for-abstracts/>.

## DID YOU MISS OUR LAST WEBINAR?

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

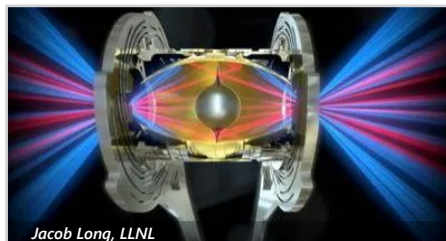
[\*download the slides\*](#)

## NOTABLE TECHNICAL INQUIRY

### Is there any empirical data for dry decontamination operational procedures?

Dry decontamination techniques could benefit cold areas where water and other liquids may freeze, such as in arctic regions. These techniques would also benefit austere environments when water is not readily available in large quantities. This report summarizes several recent studies into dry decontamination. It includes commercial-off-the-shelf technologies that have been assessed for their effectiveness on several chemical warfare... [READ MORE](#)

## UPCOMING WEBINAR



Jacob Long, LLNL

### Ignition and the Path Toward an Inertial Fusion Energy Future

February 13, 2025  
12:00 PM – 1:00 PM

*Presenter(s): Tammy Ma, Ph.D.*

*Host: HDIAC*

In December 2022, a team at Lawrence Livermore National Lab's National Ignition Facility (NIF) conducted the first controlled fusion experiment in history to reach scientific energy breakeven, producing more energy from fusion than the laser energy used to drive it. In that experiment, where 2.05 MJ of laser energy was delivered to the target, a fusion energy output of 3.15 MJ was achieved, a gain of 1.5. Since then, ignition has been repeated... [READ MORE](#)



## HIGHLIGHT

### Public Health in a Displaced Persons Camp Training

HDIAC is proud to host the 2025 Public Health in a Migrant Crisis Tabletop Exercise during the week of May 5, 2025. This year's exercise will focus on operations in camps designed for refugees, internally displaced persons, and other people in need of international protection. [LEARN MORE](#)

## EVENTS

### 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

### Military Health System Conference

April 28–May 2, 2025  
Cleveland, OH

### Want your event listed here?

Email [contact@hdiac.org](mailto:contact@hdiac.org) to share your event.



## VOICE FROM THE COMMUNITY

### Mason T. Armstrong, Maj., USAF (14N)

*United States Northern Command (USNORTHCOM)*

Mason Armstrong is the senior C5ISRT technology integrator at USNORTHCOM's Science and Technology Division. His team is charged with pursuing technological solutions that further develop and sustain homeland defense, defense support of civil authorities, and theater security cooperation missions of the North American Aerospace Defense Command and USNORTHCOM. He previously served as the lead intelligence planner at the U.S. Indo-Pacific Command, where he led the Defense Intel Enterprise in contingency planning for China.

## ARE YOU A SME?

If you are a contributing member of the information systems community and are willing to help others with your expertise, you are a subject matter expert (SME).

Join our team today.

**BECOME A SUBJECT  
MATTER EXPERT**

## ABOUT TECHNICAL INQUIRIES (TIs)

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### WHAT IS THE TI RESEARCH SERVICE?

- FREE service conducted by technical analysts
- 4 hours of information research
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### WHO CAN SUBMIT A TI?

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- Military personnel
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- Reduce redundancy of efforts across the government

To submit a TI, go to  
<https://hdiac.dtic.mil/technical-inquiries>

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## RECENT HDIAC TIs

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- Has anyone done a safety analysis of the commercially available product Dahlgren Decon?
- What data sets exist for information relating to battlefield blast injuries?
- What basic market research is available on a specific intracranial pressure system (ICP) and similar technologies?

## RECENT CSIAC & DSIAC TIs

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- Can information be provided on methods to efficiently improve commercial-off-the-shelf (COTS) information and communication technology (ICT) products for cybersecurity risks?
- How is the Army using directed-energy deposition additive manufacturing?
- How can U.S. Department of Defense (DoD) organizations register for and access the Japanese National Institute for Materials Science (NIMS) database?

## FEATURED NEWS

### Unraveling the Mysteries of DNA Damage in the Brain

Brain cells receive sensory inputs from the outside world and send signals throughout the body telling organs and muscles what to do. Although neurons comprise only 10% of brain cells, their functional and genomic integrity must be maintained over a lifetime. [READ MORE](#)

## RECENT NEWS



**"When in Doubt, Call USAMRIID:" U.S. Army North Exercise Tests Biological...**

USAMRDC



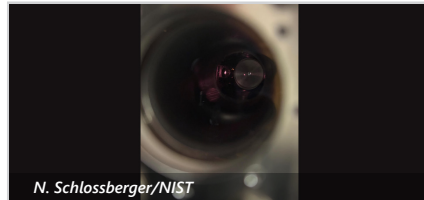
**ORNL Research Helps Cut Cancer Pathology Reporting Time**

Oak Ridge National Laboratory



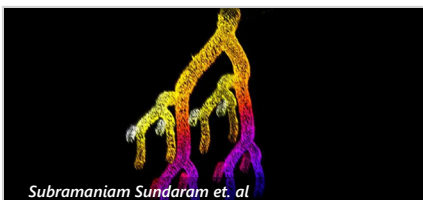
**Innovative Bioreactor Technology for Treating Industrial Residues**

U.S. Army



**New Atom-Based Thermometer Measures Temperature More Accurately**

NIST



**Biofabricating Human Tissues Enhanced Through Use of Gallium**

U.S. National Science Foundation



**Peak Performance in Microgravity**

NASA



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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