

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // July 9, 2024

## DHA SUSTAINABILITY AND ENVIRONMENTAL PROGRAMS

The Defense Health Agency (DHA) Sustainability and Environmental Programs operate with the understanding that “there is a direct link between healing the individual and healing this planet...we will not have healthy individuals, healthy families, and healthy communities if we do not have clean air, clean water, and healthy soil” (Rossi et al., “Creating Safe and Healthy Spaces: Selecting Materials That Support Healing,” Designing the 21st Century Hospital, September 2006).

The DHA Sustainability Policy (DHA-AI 4710.01) establishes sustainability goals and environmental compliance targets for military hospitals and clinics and requires forming cross-functional sustainability teams to promote a resource-aware stewardship culture.

## DID YOU MISS OUR LAST WEBINAR?

“Rewiring the Brain for Optimized Performance”

[WATCH NOW!](#)

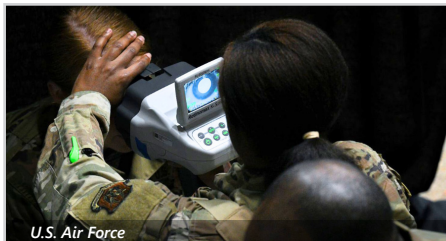
[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

**Is there any research on the behavioral and mental health issues unique to National Guard forces?**

The National Guard is a reserve component of the U.S. military comprising the Army National Guard and the Air National Guard. National Guard service members face unique challenges compared to both the active-duty components and other reserve component service members. [READ MORE](#)

## UPCOMING WEBINAR



**Emerging Capabilities for Evaluating Cognitive and Oculomotor Function...**

July 17, 2024  
12:00 PM – 1:00 PM

*Presenter(s): Mark Ettenhofer, Ph.D.*

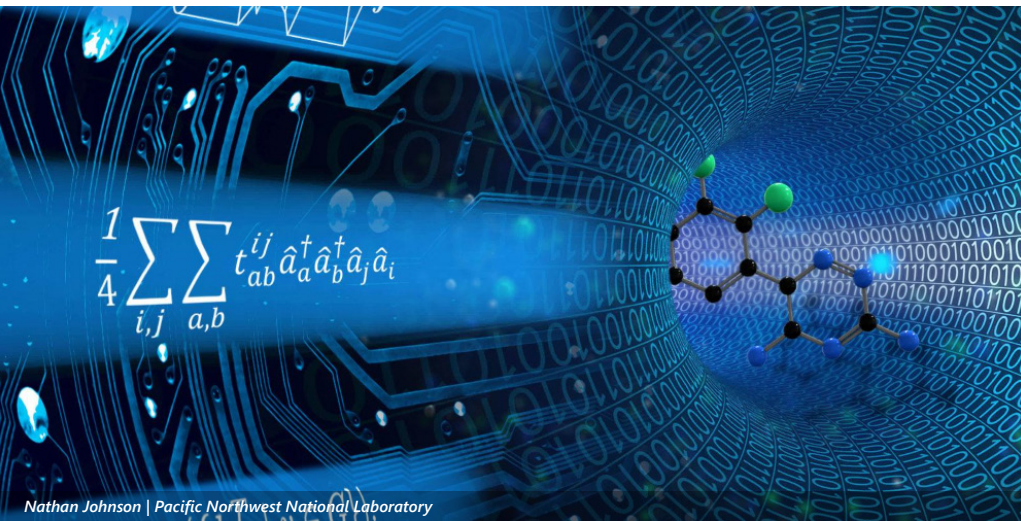
*Host: HDIAC*

High rates of traumatic brain injury (TBI) are sustained by U.S. military personnel in combat and garrison environments. Changes in brain function related to TBI can negatively impact military readiness and quality of life. Clinical assessment of neurocognitive and oculomotor function (i.e., eye movements)... [READ MORE](#)

## FUTURE WEBINARS

**Novel Hyper-Breeder Nuclear Reactor Concept**

July 18, 2024  
12:00 PM – 1:00 PM



## HIGHLIGHT

### FACT SHEET AND REPORT: DHS Advances Efforts to Reduce the Risks at the Intersection of Artificial Intelligence and Chemical, Biological, Radiological, and Nuclear (CBRN) Threats

On October 30, 2023, President Biden signed Executive Order (E.O.) 14110 on Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence. The overarching goal of the E.O. is “to ensure that America leads the way in seizing the promise and managing the risks of artificial... [LEARN MORE](#)

## EVENTS

### National Homeland Security Conference 2024

July 22–25, 2024

Miami, FL

### The 2024 FAA Drone and Advanced Air Mobility Symposium

July 30–August 1, 2024

Baltimore, MD

### Joint Air Survivability Summit 2024

July 31–August 1, 2024

National Harbor, MD

### 17th International Detonation Symposium

August 4–9, 2024

Kansas City, MO

### Public Health in a Migrant Crisis Tabletop Exercise

October 8–10, 2024

Belcamp, MD (In-Person)

### Want your event listed here?

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



## VOICE FROM THE COMMUNITY

### Chris Nemeth, Ph.D., CHFP

*Principal Scientist and Fellow, Applied Research Associates (ARA)*

Christopher Nemeth is a principal scientist and fellow with ARA, a 2,000-member national science and engineering consulting firm. His recent human factors research includes technical work in complex high-stakes settings, research methods in individual and distributed cognition, and understanding how information technology erodes or enhances system resilience. He has written over 165 technical publications, served 28 years in university faculties, and retired as a Navy Captain after 30 years of active duty and reserve service.

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**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
- Response in 10 business days or less

### WHO CAN SUBMIT A TI?

- U.S. government (federal, state, or local)
- Military personnel
- Contractors working on a government or military contract

### WHY UTILIZE THE TI RESEARCH SERVICE?

- Get a head start on your technical questions or studies
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- Find and connect with other subject matter experts in the field
- Reduce redundancy of efforts across the government

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

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## RECENT HDIAC TIs

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- What multifunctional robotics platforms are used for first responder applications?
- Who is developing commercial- and government-off-the-shelf wearable devices with geolocation tracking and physiological informatics?
- What is the quantity and rate of DNA transfer of wet and dry biological fluid stains (semen, blood, saliva, and vaginal fluid) on clothing and fabrics?

## RECENT CSIAC & DSIAC TIs

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- What integrated priority list needs have the combatant commands submitted for civilian harm mitigation and response capabilities?
- What nonlethal weapons technology exists for crowd control and a single individual?
- Can a catalogue of modular payload standard-compliant systems be created?

## FEATURED NEWS

### USAMTEAC Tests New Capability of Ultrasound Field Portable for Operational Use

JOINT BASE SAN ANTONIO, TX - The U.S. Army Medical Evaluation Test Activity (USAMTEAC) recently conducted an operational test of three ultrasound field portable devices. The test was conducted for... [READ MORE](#)

## RECENT NEWS



U.S. Army

### Modular Next Generation Chemical Detector to Provide Integrated Layered CBRN...

JPEO-CBRND



U.S. Navy

### U.S. Navy Efforts Aid in Baltimore Channel Reopening

Naval Sea Systems Command



U.S. Navy

### Mass Casualty Exercise Increases Medical Readiness, BALTOPS 24

U.S. Navy



Neché Harris

### USAMRDC Medical Technology Transfer Office Spotlights Inventions, Fosters...

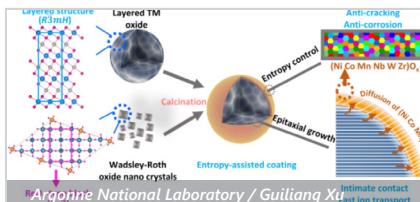
U.S. Army Medical Research and Development Command



Pixabay

### EMPOWERing First Responders to Prepare for Severe Weather Events

The Department of Homeland Security



Argonne National Laboratory / Guiliang Xu

### Scientists Find New Way to Enhance Durability of Lithium Batteries

Argonne National Laboratory



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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