

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // August 13, 2024

CALL FOR JOURNAL ABSTRACTS

We are accepting abstracts for the upcoming HDIAC Journal, Vol. 9, No. 1. This journal features exclusive, publicly releasable articles on new and emerging science, engineering, and technology within the homeland defense and security community. The deadline for abstract submissions is September 6, 2024. Contributors will be notified if their submission is selected for publication by September 20, 2024. Selected articles will be due December 13, 2024, to ensure a March 2025 publication date.

WHAT TO INCLUDE IN ABSTRACT:

- 200 words
- All authors
- Prospective title
- Highlighted focus area(s)
- Your organization

SUBMIT IDEAS/ABSTRACT:

<https://hdiac.org/publish/> or email Aaron at journal@hdiac.org

DID YOU MISS OUR LAST WEBINAR?

“Novel Hyper-Breeder Nuclear Reactor Concept”

[WATCH NOW!](#)

[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

Who are U.S. Department of Defense (DoD) experts in platforms using genome editing tools to diagnose disease?

The Homeland Defense & Security Information Analysis Center (HDIAC) was asked to identify U.S. Department of Defense (DoD) or U.S. government (USG) subject matter experts (SMEs) with expertise in disease diagnostic platforms, specifically those utilizing genome editing tools to search for the presence of specific nucleic acids. The inquirer was also interested in any military applications for such platforms. [READ MORE](#)

UPCOMING WEBINAR



Security Implications for the United States From Iranian and Hezbollah Activities in...

December 12, 2024
12:00 PM – 1:00 PM

Presenter(s): Evan Ellis, Ph.D.

Host: HDIAC

This presentation will examine engagement with Latin America by Iran, its government agents, and surrogate groups such as Hezbollah, including terrorist finance, terrorism, and other activities and their evolution in recent years. It will address the interaction of that presence with the risk of escalating the conflict in the Middle East and weak or anti-U.S. governments in the region who deliberately or unwittingly serve as hosts of actions oriented... [READ MORE](#)



Pexels

HIGHLIGHT

JPEO-CBRND Offers Medical Solutions for Threats to the Warfighter and Beyond

A key Joint Force medical program is responding to rapidly evolving healthcare crises around the world and taking action for the health and safety of Warfighters and civilian populations worldwide. The Joint Project Manager for Chemical, Biological, Radiological, and Nuclear Medical (JPM CBRN Medical) delivers quality, safe, effective, and integrated medical solutions to counter CBRN and other emerging threats to the Joint Force. But it doesn't stop there. The mission often extends further to include global.... [LEARN MORE](#)

EVENTS

**Public Health in a Migrant Crisis
Tabletop Exercise**
October 8–10, 2024
Belcamp, MD (In Person)

**The Department of Defense
(DoD) Energy and Environment
Innovation Symposium**
December 3–6, 2024
Washington, DC

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



VOICE FROM THE COMMUNITY

Weimin Zheng, Ph.D.
*Senior Neuroscientist Tech Fellow,
Leidos Inc.*

Dr. Weimin Zheng is a system and computational neuroscientist contracted to work at the Naval Health Research Center's Warfighter Performance Department. He has spent his career studying how the brain works, how the brain adapts to changing environments, and why the brain malfunctions in mental disorders. His focus has been on mild traumatic brain injuries and post-traumatic stress disorder in service members, aiming at enhancing Warfighters' cognitive performance in theaters and rehabbing mental disorders of wounded warriors.

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)

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
- Discover hard-to-find information
- 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>

FOR MORE: FOLLOW US ON SOCIAL



RECENT HDIAC TIs

- What capabilities exist for field-level decontamination in a radiological environment?
- What information exists on explosive dissemination of biological agents?
- What are current and projected applications of synthetic biology for U.S. Army protection, detection, and decontamination against chemical, biological, and radiological threats?

RECENT CSIAC & DSIAC TIs

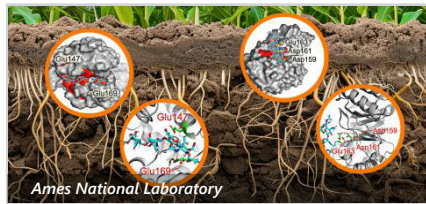
- What integrated priority list needs have the combatant commands submitted for civilian harm mitigation and response capabilities?
- Can you identify electromagnetic pulse testing protocols used for U.S. Air Force weapons systems?
- What work has been done on using active illumination to image through blast events?

FEATURED NEWS

DoD Releases Updated List of Foreign Institutions Engaging in Problematic Activities to Counter Unauthorized Technology...

The U.S. Department of Defense (DoD) announced publication of the fiscal year 2023 (FY23) update to the list of foreign institutions engaging in problematic activity and reaffirmed the FY22 list of foreign... [READ MORE](#)

RECENT NEWS



Ames National Laboratory

New Understanding of a Common Plant Enzyme Could Lead to Better Crop...

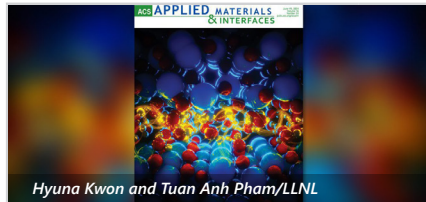
Ames National Laboratory



Navy Petty Officer 2nd Class Trey Hutcheson

New DoD Strategy Calls for Enhancements, Engagements, Exercises in Arctic

U.S. Department of Defense



Hyuna Kwon and Tuan Anh Pham/LLNL

Nano-Confinement May Be Key to Improving Hydrogen Production

Lawrence Livermore National Laboratory



Francisco Saenz / PPPL

Creating Loops of Liquid Lithium for Fusion Temperature Control

Princeton Plasma Physics Laboratory



U.S. Air Force

NNSA Gets New Helicopters to Support Radiological Security Across the Nation

National Nuclear Security Administration



Arthur Bortz / PPPL

Conductors for Magnet at the Heart of PPPL's NSTX-U Arrive in Spain

Princeton Plasma Physics Laboratory



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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