HOMELAND Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // May 16, 2024

MENTAL HEALTH AWARENESS MONTH

May is Mental Health Awareness Month (MHAM), a time dedicated to raising awareness of the challenges faced by those living with mental health issues and provide education on available resources for help. The U.S. Department of Defense understands that mental wellness plays a vital role in overall health and wellness and recognizes and supports MHAM by providing a number of resources to help military personnel, their families, and veterans lead happier and healthier lives.

For more information, visit: Mental Health Awareness Month: Defend Your Mental Health | Health.mil

DID YOU MISS OUR LAST WEBINAR?

"Tip of the Spear: The Next Generation of Brain Health Baselining..."



or download the slides

NOTABLE TECHNICAL INQUIRY

What fungi and bacteria have contaminated fuel and hydraulic fluid?

The Homeland Defense and Security Information Analysis Center (HDIAC) received a technical inquiry regarding microbial contaminants of the fuel and hydraulic liquid in aircraft. A particular focus was on all known microbes detected in aircraft or any other similar systems, the enzymes... **READ MORE**

UPCOMING WEBINAR



DoD Nuclear Energy Use Case – A Combatant Command Perspective

> May 16, 2024 12:00 PM – 1:00 PM

> > Host: HDIAC

Presenter(s): Jeth Fogg, Ph.D.

The U.S. Department of Defense (DoD) was an early adopter of nuclear power and pioneered research of mobile nuclear energy. In addition to the well-documented U.S. Navy nuclear propulsion program, the U.S. Army constructed eight land-based reactors, deploying a 330-ton "portable"... **READ MORE**

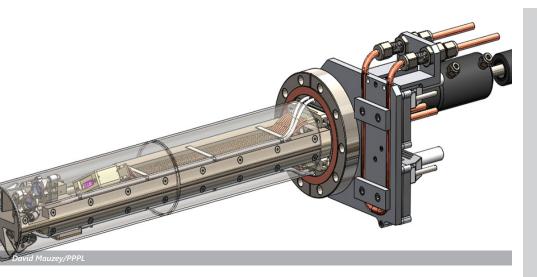
FUTURE WEBINARS

Rewiring the Brain for Optimized Performance

> June 14, 2024 12:00 PM – 1:00 PM

Emerging Capabilities for Evaluating Cognitive...

July 17, 2024 12:00 PM – 1:00 PM



HIGHLIGHT

New Instrument Could Help Scientists Tailor Plasma to Produce More Fusion Heat

Creating heat from fusion reactions requires carefully manipulating the properties of plasma, the electrically charged fourth state of matter that makes up 99% of the visible universe. Now, scientists at the U.S. Department of Energy's (DOE's) Princeton Plasma Physics Laboratory (PPPL) have finished building a new plasma measurement instrument, or diagnostic, that could aid the effort to boost the heat of fusion reactions in facilities known as tokamaks and potentially improve the power output of future fusion... **LEARN MORE**

EVENTS

The 18th Annual RadWaste Summit

June 3–5, 2024 Louisville, KY

Biometrics Institute US Strategy Forum

June 20, 2024 Alexandria, VA

The 92nd MORS Symposium June 24-27, 2024 *Monterey, CA*

The 2nd Annual Nuclear Energy Security Summit

June 26–27, 2024 Washington, DC

17th International Detonation Symposium

August 4–9, 2024 Kansas City, MO

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



VOICE FROM THE COMMUNITY

B. McKay Allred, Ph.D.

Research Scientist, U.S. Army Criminal Investigation Laboratory (USACIL)

Dr. Allred is a research scientist, program manager for internal research, and research chemistry lab manager for USACIL, where he supports the advancement of several forensic science disciplines. Past research efforts have included explosive and drug analysis, synthetic and organic polymer identification and characterization, latent print visualization, 3-D firearm and toolmarks, and statistical representation of pattern-based evidence.

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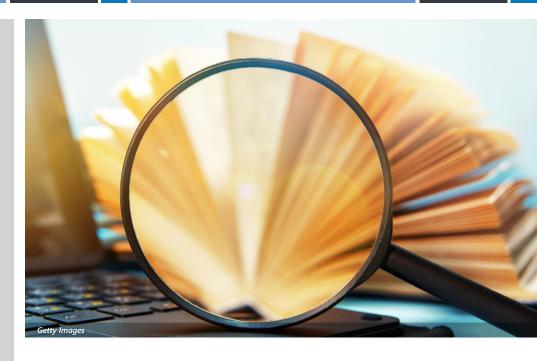












RECENT HDIAC TIS

- Is there any research on the effects or correlations of airborne parachute operations and long-term degenerative disc disease of military paratroopers of the T-11 vs. T-10 parachutes?
- What is the medical impact of long-term exposure to shooting mortars, artillery, and tanks?
- What are current and projected U.S. Department of Defense regulations for storing and distributing alternative fuels?

RECENT CSIAC & DSIAC TIS

- What is known about automated extraction of data and metadata from hand-written lab notebooks?
- What DoD efforts have explored task-based and psychophysiologicalbased adaptive aids for human machine teaming in the last four years?
- What information is available on aircraft maneuvering to avoid a debris cloud caused by a cruise missile explosion?

FEATURED NEWS

563rd OSS Mask Modernization

The U.S. Air Force Chemical, Biological, Radiological and Nuclear Defense Systems Branch fielded new respirator masks to the 563rd Operational Support Squadron (OSS) and 755th OSS, on March 7, 2024. **READ MORE**

RECENT NEWS



Fluorine-Free Foam Flows to U.S. Air Force Bases as DoD Removes PFAS From...

Air Force Reserve Command







Defense Innovation Unit and National Guard Bureau Leverage Bellwether's Aerial Imagery...

Defense Innovation Unit





DEVCOM CBC Researchers Explore 3-D-Printed Sensors

U.S. Army

DTRA/DVIDS







Around the World: JPEO-CBRND Gathers Global Data to Enhance Threat Detection Capabilities

JPEO CBRND







Breathing Room







NATO Researchers Hold Lab Field Trial With DEVCOM CBC Scientists

U.S. Army







Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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