

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // February 27, 2024

12TH ANNUAL JOINT CIVIL AND DOD CBRN SYMPOSIUM

This event will explore the continued efforts of the chemical, biological, radiological, and nuclear (CBRN) community to advance the defense, readiness, and response to current and emerging CBRN threats. The 2024 Symposium will aim to advance an innovative, joint CBRN community essential to counter and defend the nation from CBRN events.

WHEN: March 13-14, 2024

WHERE: National Housing Center, Washington, D.C.

To learn more and to register, visit: <https://hdiac.org/events/12th-annual-joint-civil-dod-cbrn-symposium/>.

DID YOU MISS OUR LAST WEBINAR?

“Homeland Defense and Future Warfighting Challenges Arising From the People’s Republic of China Activities...”

 **WATCH NOW!**

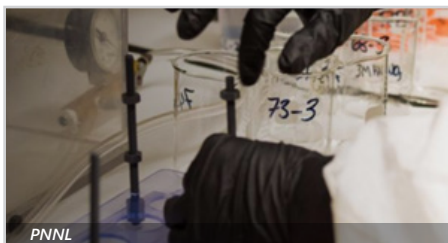
[or download the slides](#)

NOTABLE TECHNICAL INQUIRY

How can the "memory effect" of an incinerator's pollution abatement system be removed after it becomes contaminated with dioxins and furans?

The Homeland Defense and Security Information Analysis Center (HDIAC) was asked to provide information on the removal of the “memory effect” from an incinerator’s pollution abatement system after it becomes contaminated with dioxins and furans. The overarching objective is to eliminate... [READ MORE](#)

UPCOMING WEBINAR



Novel Nuclear Forensics for the 21st Century

March 14, 2024
12:00 PM – 1:00 PM

Presenter(s): Robert Hayes, Ph.D.

Host: HDIAC

This work will demonstrate how ubiquitous radiological characterization can take place throughout all nuclear facilities for all nuclear material (even those facilities the United States does not know exist). The presentation will detail how this technology is passively integrated into current and... [READ MORE](#)

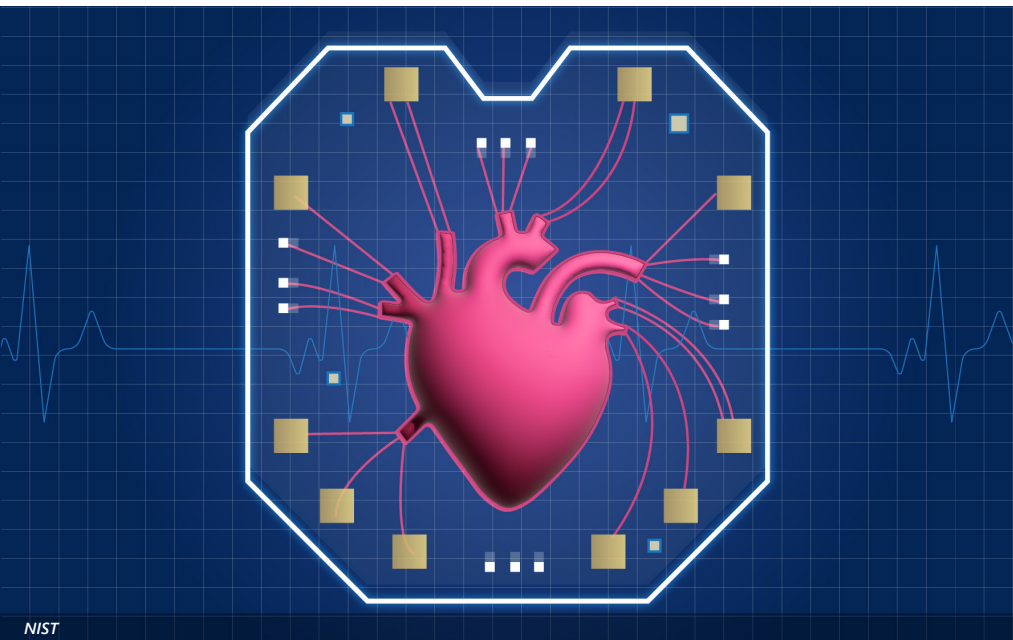
FUTURE WEBINARS

A Technical Review on Common Myths About...

April 11, 2024
12:00 PM – 1:00 PM

Tip of the Spear: The Next Generation of Brain...

April 12, 2024
12:00 PM – 1:00 PM



HIGHLIGHT

NIST's Heart-on-a-Chip: A Microfluidic Marvel Shaping the Future of Cardiovascular Research

In a major step forward in drug development, researchers at the National Institute of Standards and Technology (NIST) have developed a tool for building a system known as heart-on-a-chip (HoC). This technology seeks to address the limitations of conventional cardiovascular drug development, which relies heavily on animal testing. By replicating humanlike models for studying cardiovascular diseases, the HoC system holds the promise of helping to replace animal testing, shortening drug development timelines and reducing costs. The NIST team's results were published in *Lab on a Chip*... [LEARN MORE](#)

EVENTS

Critical Infrastructure Protection & Resilience North America

March 12–14, 2024

Lake Charles, LA

12th Annual Joint Civil & DoD CBRN Symposium

March 13–14, 2024

Washington, DC

Want your event listed here?

Email contact@hdiac.org to share your event.



VOICE FROM THE COMMUNITY

Kirby Wedekind

Supervisory Protective Security Advisor

Kirby Wedekind serves in the Department of Homeland Security's Cybersecurity and Infrastructure Security Agency as a supervisory protective security advisor for northeast Florida, where he collaborates with the local critical infrastructure community to reinforce cybersecurity, physical security, and resilience initiatives. Current priorities include countering foreign malign influence, advocating for secure-by-design principles, and supporting security efforts within the energy, water and wastewater, transportation, communication, and information technology sectors as well as companies developing next generation and emerging technology.

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).

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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 research information exists on the U.S. Army's face/mask respirator sizing?
- How can technological advancements improve Warfighters' cognition in the future?
- Is there any research on the effects or correlations of airborne parachute operations and long-term degenerative disc disease of military paratroopers?

RECENT CSIAC & DSIAC TIs

- Can you provide information on secure identity and access management solutions?
- What information is available using additive manufacturing to make replacement parts vs. the intellectual property rights of the original designer?
- Is there a model that would enable a planner to reverse engineer ammunition procurement?

FEATURED NEWS

New System Seeks to Upgrade Explosive Ordnance Disposal Robots, Aid Technicians

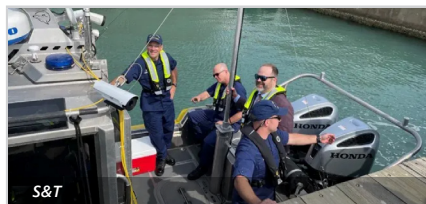
WRIGHT-PATTERSON AIR FORCE BASE, OHIO (AFRL) — A new system seeks to aid explosive ordnance disposal, or EOD, technicians by adding a simple and inexpensive system to improve depth detection while... [READ MORE](#)

RECENT NEWS



Missile Defense Agency and U.S. Navy Successfully Demonstrate Aegis Weapon System...

Missile Defense Agency



Using a "Roadmap" to Chart the Future of Maritime Security

U.S. Department of Homeland Security



U.S. Army Lab Technicians Train Together With Allied Medical Professionals in Germany

U.S. Army



CSC2 Moves Full Speed Ahead on the Software Acquisition Pathway

JPEO-CBRND



Tough on Chemicals, Gentle on Gear

Defense Visual Information Distribution Service



DoD Launches Distributed Bioindustrial Manufacturing Program to Bolster...

U.S. DoD



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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