

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // June 13, 2023



## SNEAK PEEK

### UPCOMING WEBINAR:

*Contemporary Counter Unmanned Aerial System Technologies*

### DATE:

July 15, 2023

### TIME:

2:00 PM

### PRESENTED BY:

Dr. Jason Heikenfeld

### HOST:

HDIAC

## DID YOU MISS OUR LAST WEBINAR?

“Extended Reality Training Development at the Oak Ridge Enhanced Technology and Training Center”

[WATCH NOW!](#)

[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

### What commercially available, antiviral surface coatings last weeks/months instead of hours/days?

The Defense Systems Information Analysis Center (DSIAC) was asked to determine if commercial or government off-the-shelf, long-lasting antiviral surface coatings exist. DSIAC researchers compiled relevant information as of April 2020 and reached out to subject matter experts from U.S. Department of Defense (DoD) laboratories working on related efforts. [READ MORE](#)

## UPCOMING WEBINAR



### Wearable Biochemical Monitoring? Very Recent Breakthroughs Will Make Performance and Health...

June 15, 2023 12:00 PM – 1:00 PM

*Presenter:* Dr. Jason Heikenfeld

*Host:* HDIAC

The U.S. Department of Defense has invested heavily in concepts to continuously monitor performance and health status. While these investments have struggled to reach deployment, the fundamental research barriers are now better. Learning from past failures, the development path is clearer and involves adapting animal-proven biosensors onto commercially... [READ MORE](#)

## FUTURE WEBINARS

### Contemporary Counter Unmanned Aerial System Technologies

July 12, 2023 2:00 PM – 3:00 PM



U.S. Department of Agriculture

## HIGHLIGHT

### DHS Completes Construction, Commissioning of National Bio and Agro-Defense Facility

MANHATTAN, KANSAS —The Department of Homeland Security (DHS) has completed the construction and commissioning of the National Bio and Agro-Defense Facility (NBAF) in Manhattan, Kansas. NBAF is the first U.S. laboratory with biosafety level-4 containment, capable of housing large livestock animals; and one of only a few facilities in the world with these... [LEARN MORE](#)

## EVENTS

### Human Performance and Biosystems Summit

June 21–22, 2023

National Harbor, MD

### Critical Infrastructure Security Summit

July 26–27, 2023

Alexandria, VA

### Solar and Energy Storage Summit 2023

June 21–22, 2023

San Francisco, CA

### 52nd National Solar Conference

August 8–11, 2023

Boulder, CO

### Homeland Security: Cybersecurity and Infrastructure Conference

July 17–19, 2023

Atlanta, GA

### Want your event listed here?

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

### National Homeland Security Conference 2023

July 24–27, 2023

Chicago, IL



## VOICE FROM THE COMMUNITY

### Justin Burger

*Regional Spray Specialist, Spraying Systems Co.*

Justin Burger specializes in air-atomizing nozzles, automatic spray nozzles, spray analysis, research, microdeposition, and precision spray control for Spraying Systems Co. He tackles applications from bio/pharma, energy, chemical, nanotechnology, food, steel, aerospace, electronics, manufacturing, and agriculture. Founded in 1937, his company has a deep technical knowledge of spray technology, which is ubiquitous in nearly every vertical market. Spray technology specialists are strategically located throughout the world, with manufacturing facilities on six continents.

## 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!

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
- 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!

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## RECENT HDIAC TIs

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- Has there been any research or testing on an injectable decontaminant into firefighting foam or an air filtration/HVAC system?
- How can directed energy be used for decontamination or contamination mitigation?
- What new technology and research is the U.S. Navy performing to supply/refuel/recharge large unmanned surface vehicles?

## RELATED CSIAC & DSIAC TIs

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- Can you provide information on the U.S. Navy's platform integration core technology specific to unmanned underwater vehicles (UUVs)?
- What tethered UASs for ISR are commercially available?
- What is the operational system risk imposed by the infrastructure deployment pipeline workflow?

## FEATURED NEWS

### Engineering Solutions Through Advanced Materials

The U.S. Army Engineer Research and Development Center (ERDC) is conducting innovative research on advanced materials and manufacturing technologies that will play a vital role in both civilian and military applications. [READ MORE](#)

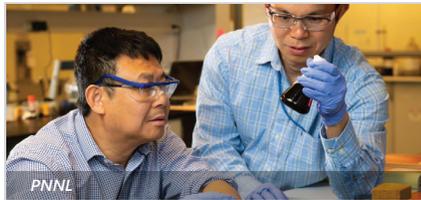
## RECENT NEWS



JPEO-CBRND

**Joint Program Executive Office for Chemical, Biological, Radiological, and Nuclear Defense Pilots New Approach...**

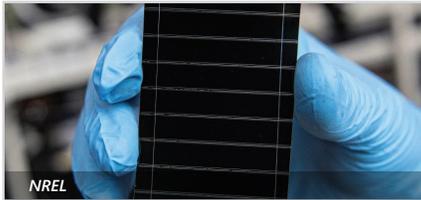
JPEO-CBRND



PNNL

**Tri-Cities Researchers' Discovery Could Mean Cheaper Bio-Based Fuel**

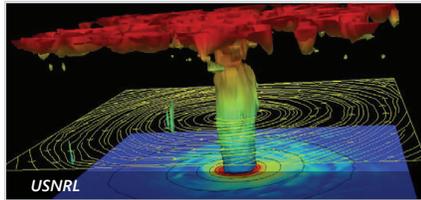
PNNL



NREL

**Ordering Ions: ORNL Study Inches Toward Answer on Power Source Origins**

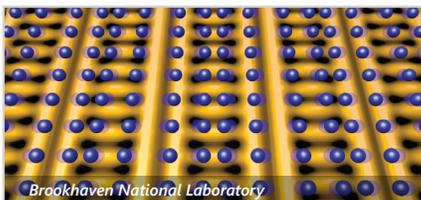
ORNL



USNRL

**"World-Class" Technology Provides Navy Cyclone Forecasting**

USNRL



Brookhaven National Laboratory

**"Charge Density Wave" Linked to Atomic Distortions in Would-Be Superconductor**

Brookhaven National Laboratory



JPEO-CBRND

**JPEO-CBRND Hosts CVCAD Exercise at Soldier Integration Facility**

JPEO-CBRND

-  Alternative Energy
-  Biometrics
-  CBRN Defense
-  Critical Infrastructure Protection
-  Cultural Studies
-  Homeland Defense & Security
-  Medical
-  Weapons of Mass Destruction

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