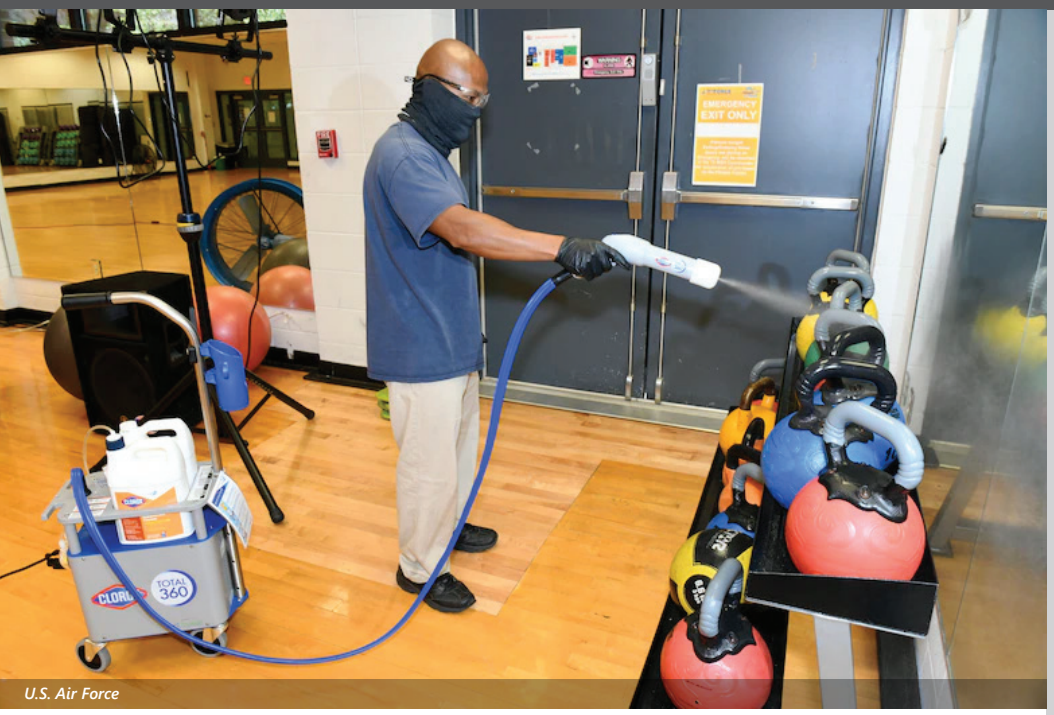
# HOMELAND
## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // May 23, 2023



U.S. Air Force

## NOTABLE TECHNICAL INQUIRY

### Are cleaning chemicals applied by electrostatic sprayers effective at sanitizing touch surfaces?

The Defense Systems Information Analysis Center (DSIAC) was asked to identify if cleaning chemicals applied by electrostatic sprayers are effective at sanitizing touch surfaces. COVID-19 has highlighted the need for innovative sanitation methods for touch surfaces. Electrostatic sprayers that apply charged cleaning solutions to various surfaces have been identified as potential solutions for large area decontamination. The concept is that the charged spray droplets will adhere to hard-to-reach surfaces for enhanced coverage. Although many... **READ MORE**

## JOURNALS ARE BACK!

After a long absence, the HDIAC Journal is returning! We are now accepting abstracts for our first issue and need your help!

This issue will be a general edition covering any of HDIAC's eight focus areas.

**WHAT TO INCLUDE IN ABSTRACT:**

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

**ARTICLE DEADLINE:**
July 14, 2023

**SUBMIT IDEAS/ABSTRACT:**
journal@hdiac.org

*To view previous HDIAC journals, visit https://hdiac.org/journals.*

## VOICE FROM THE COMMUNITY

**Nancy Smalley**
*Director of Growth for Innovative Technology Solutions*

Nancy Smalley is the Director of Growth for Innovative Technology Solutions at Parsons Corporation, where she seeks opportunities to combine technology with analysis and bring new solutions to the industry. She has over 17 years of experience supporting the defense and intelligence industry. She recently completed her graduate degree at Harvard University, where she studied the intersectionality of government policy and sustainability, with a particular focus on alternative energy as a national security priority.

## 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**


## HIGHLIGHT

### National Defense Science & Technology Strategy 2023

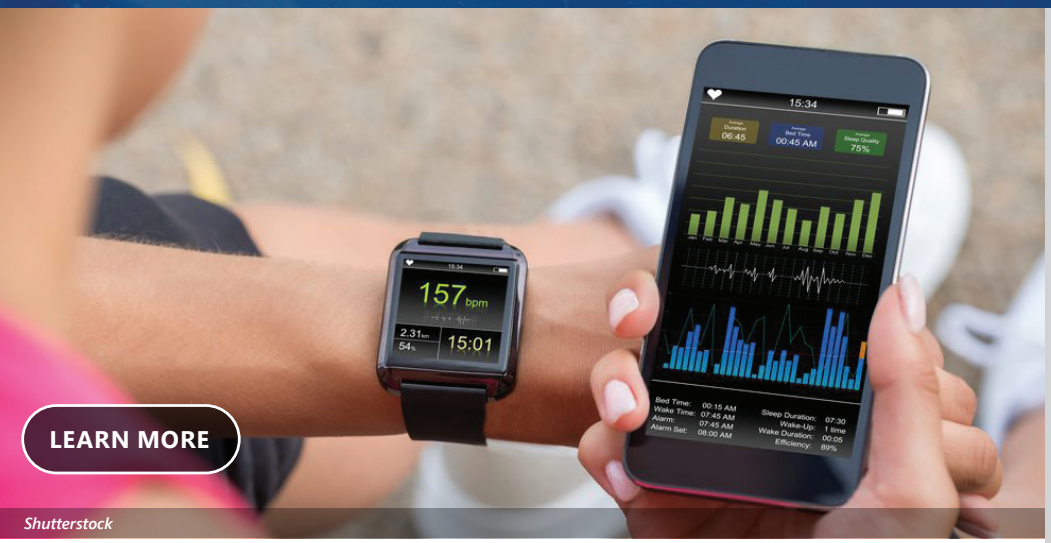
As the 2022 National Security Strategy and National Defense Strategy (NDS) make clear, the United States is in the midst of a decisive decade where the terms of geopolitical competition between the world's major powers will be set. The U.S. Department of Defense (DoD) will advance its priorities in three interlocking ways – through integrated deterrence,... **LEARN MORE**

## FEATURED NEWS

### United States Government National Standards Strategy for Critical and Emerging Technology


Strength in standards development has been instrumental to the United States' global technological leadership. Standards development underpins economic prosperity across the country and fortifies U.S. leadership in the industries of the future at the same time. Bolstering U.S. engagement in standards for critical and emerging technology spaces will strengthen U.S. economic and national security. The U.S. government has long engaged in these standards... **READ MORE**

*Image: The White House*




# WEBINARS

## Wearable Biochemical Monitoring? Very Recent Breakthroughs Will Make Performance and Health Monitoring a Near-Term Reality

***Presented:*** *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 deployed, wearable, continuous glucose meters. New investments can focus less on platform development and reliable body access and more on the specific remaining challenges for each use case and biomarker. With a lower risk and lower investment path, continuous wearable monitoring of performance and health is now a closer, investable, and fruitful endeavor. **LEARN MORE**

# EVENTS

### Mixed-Hazardous Waste Consequence Management Event | Real-Time Tabletop Exercise

June 13–15, 2023
*Oak Ridge, TN*


*Image: HDIAC*

### Micro Radiation Emergency Medicine (MicroREM)

August 1–3, 2023
*Oak Ridge, TN*

*Image: DVIDS*

### Materials in Nuclear Energy Systems (MiNES 2023)

December 10–14, 2023
*New Orleans, LA*

*Image: DVIDS*

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

## DID YOU MISS OUR LAST WEBINAR?

"Materials Science That Breaks the Efficiency, Lightweight, Reliability Trade: Efficient Multijunction Solar Cells on Flexible Substrates"

**WATCH NOW!**

*or download the slides*

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



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HDIAC Homeland Defense & Security Information Analysis Center

# RECENT NEWS


## DoD Leaders Observe "Nearly Invisible" CWMD Training Mission

Defense Threat Reduction Agency


## BARDA Support Protects Against Drug-Resistant Threats

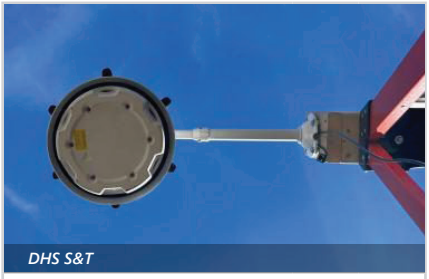
Biomedical Advanced Research and Development Authority


## DoD Investing in Wearable Technology That Could Rapidly Predict Disease

U.S. Department of Defense


## ERDC-CERL Helps Develop Novel Disaster Relief Vehicle

Construction Engineering Research Laboratory




## Reimagining Gunshot Detection for Enhanced Community Safety

U.S. Department of Homeland & Security


## Arctic Angels Put Freeze-Dried Plasma to the Test

U.S. Army