

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // December 21, 2021



## NOTABLE TECHNICAL INQUIRY

### What is the standard respiratory protection for military and law enforcement professionals - tight or loose fitting?

The Homeland Defense and Security Information Analysis Center (HDIAC) received a technical inquiry requesting information on the standard use and regulations of respirator-based, personal protective equipment for law enforcement and military – specifically, if there is a standard between tight-fitting or loose-fitting respiratory protection. [READ MORE](#)



## SNEAK PEEK

### UPCOMING WEBINAR:

*A Systems Thinking Perspective on Vietnam's Response to COVID-19*

### DATE:

January 13, 2022

### TIME:

12:00 PM

### PRESENTED BY:

Dr. Frances Veasey

### HOST:

HDIAC



## VOICE FROM THE COMMUNITY

### Deanna Milonas

*HDIAC Research Inquiry Analyst*

Deanna Milonas is a research analyst for the Homeland Defense and Security Information Analysis Center (HDIAC). As a research analyst, Deanna is currently supporting a specialized task order (STO) analyzing the impacts of the COVID-19 pandemic on DoD operations. Prior to working for HDIAC, she worked as an analytical chemist performing chemical analysis on samples using LC-MS, GC-MS, and ICP-OES. While working on her master’s degree, she worked as a biomedical engineering researcher focusing on the synthesis and characterization of polymeric magnetic micro- and nanoparticles and their therapeutic applications for drug delivery. Deanna holds a B.S. in chemistry and an M.S. in biomedical engineering.

**BECOME A SUBJECT MATTER EXPERT**



## HIGHLIGHT

### These Tiny Liquid Robots Never Run Out of Juice as Long as They Have Food

When you think of a robot, images of R2-D2 or C-3PO might come to mind. But robots can serve up more than just entertainment on the big screen. In a lab, for example, robotic systems can improve safety and efficiency by performing repetitive tasks and handling harsh chemicals.

But before a robot can get to work, it needs energy – typically from electricity or a battery. Yet even the most sophisticated robot can run out of juice. For many years, scientists have wanted to make a robot that can work autonomously and continuously, without electrical input. [LEARN MORE](#)

## FEATURED NEWS

### Long-Range Discrimination Radar Reshapes Adversaries’ Calculus for Attacks Against U.S. Homeland

The Missile Defense Agency, U.S. Northern Command, and the Space Force marked the completion of construction on the long-range discrimination radar (LRDR) site at Clear Space Force Station, Alaska, during a ceremony on Monday.



The multimission LRDR is designed, for now, to better track incoming ballistic missiles. It combines the capabilities of lower frequency radars, which can track multiple objects in space at... [READ MORE](#)



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## WEBINARS

### A Systems Thinking Perspective on Vietnam’s Response to COVID-19

*Presented:* January 13, 2022 12:00 PM–1:00 PM

*Presenter:* Dr. Frances Veasey

*Host:* HDIAC

Through ANSER’s work supporting the CDC’s Global Health Security Agenda, Frances Veasey and Lynne Clemens worked closely with Vietnam’s public health agencies in 2017 and 2018 to improve their nation’s response to outbreaks, epidemics, and public health crises. Since then, Vietnam has been internationally recognized for its effective response to COVID-19 over the first year of its emergence. During this presentation, Frances Veasey will combine this in-country experience with ANSER’s systems thinking capabilities to investigate the behaviors, underlying structures, and mental models that helped Vietnam achieve success during the first year of the global pandemic. This session will review the use of a systems thinking tool, the Iceberg Method, to understand how Vietnam’s unique context facilitated effective response and what we can learn to improve our response in the United States. The iceberg model also can be used for a variety of applications outside of public health, with this example demonstrating how its approach can be useful in designing interventions in any domain. **LEARN MORE**

## EVENTS

### Intersolar North America and Energy Storage North America

January 13-15, 2022



Image: Unsplash

### Nuclear Deterrence Summit

February 7-9, 2022



Image: Unsplash

### International Conference on Biometric Engineering and Applications (ICBEA044 2022: 16)

April 21-22, 2022

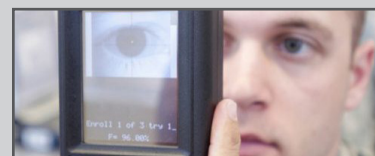


Image: DVIDS

### 11th Symposium on CBRNE Threats

June 5-8, 2022



Image: U.S. DoD

### Want your event listed here?

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

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

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## RECENT NEWS



U.S. Navy

**U.S. Department of the Navy and California's Energy Commission Partner on Energy & Water Initiatives**

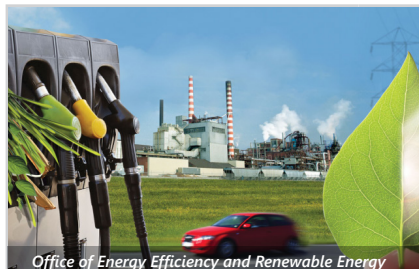
Alternative Energy; Critical Infrastructure Protection



U.S. Army

**Chemical Company Keeps Combat Units in South Korea Ready to Fight**

CBRN Defense; Medical



Office of Energy Efficiency and Renewable Energy

**USDA to Make up to \$800 Million Available to Provide Economic Relief to Biofuel Producers and Restore Renewable Fuel Markets Hit by the Pandemic**

Alternative Energy



U.S. Department of Energy

**NNSA Awards \$13 Million to Promote U.S. Production of Critical Medical Isotope**

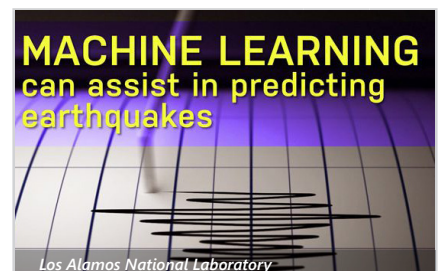
Medical



Office of the Attorney General

**Extinguishing the Risk of Forever Chemicals: State of the Science to Protect First Responders**

Homeland Defense & Security



Los Alamos National Laboratory

**Machine Learning Refines Earthquake Detection Capabilities**

CIP; Homeland Defense & Security

