

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // December 20, 2022



## NOTABLE TECHNICAL INQUIRY

**What studies have been done on using standard DECON solutions on MH-60-type aircraft/small boat composite materials, and what is the effectiveness of each solution/method for military use? Are there any health hazard studies on the dangers of the solutions to DECON personnel on aircraft?**

HDIAC conducted a literature search and review of the Defense Technical Information Center (DTIC) Research & Engineering (R&E) Gateway and also sought assistance from the HDIAC subject matter expert (SME) network in the CBRN Defense and WMD technical focus areas. [READ MORE](#)



## SNEAK PEEK

### UPCOMING WEBINAR:

*Bombing Prevention Resources for Mitigating the Use of Explosives and IEDs Against Critical Infrastructure*

### DATE:

January 19, 2023

### TIME:

12:00 PM

### PRESENTED BY:

Jason Stewart

### HOST:

HDIAC



## VOICE FROM THE COMMUNITY

**Benjamin Krawczyk**  
*Senior Electrical Engineer, Collins Aerospace*

Benjamin Krawczyk is a Navy Veteran who works as a nuclear effects engineer at Collins Aerospace, where he advises/assists with the development of nuclear hardened electronics for platforms like the B-52 bomber, B-2 bomber, E-4B SAOC, and E-6 TACAMO. He specializes in radiation effects (testing/analysis/assurance) but also supports the Collins' electromagnetic effects lab as an engineering test lead. As an assistant weapons officer onboard a ballistic missile submarine, he studied nuclear weapons, their effects, and mitigation strategies.

## 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 an SME!

Join our team today!

**BECOME A SUBJECT  
MATTER EXPERT**



## HIGHLIGHT

### DoD Scouts Innovative Ideas From Industry, Allies, Partners

The Rapid Defense Experimentation Reserve, which was stood up last year, is a collaboration between the military services, combatant commands, industry, and coalition partners with the aim of discovering new and innovative Warfighting capabilities.

"The idea behind this initiative is to get the best ideas, test prototypes in the laboratory and then in the field or even in contested... [LEARN MORE](#)

## FEATURED NEWS

### National Ignition Facility Achieves Fusion Ignition

The U.S. Department of Energy (DOE) and DOE's National Nuclear Security Administration (NNSA) announced the achievement of fusion ignition at Lawrence Livermore National Laboratory (LLNL) — a major scientific breakthrough decades in the making that will pave the way for advancements in national defense and the future of clean power. On

December 5, a team at LLNL's National Ignition Facility (NIF) conducted the first controlled fusion experiment in history to reach this milestone, also known as scientific energy breakeven, meaning it produced more energy from fusion than the laser energy used to drive it. [READ MORE](#)

Image: LLNL







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DVIDS

## WEBINARS

### Bombing Prevention Resources for Mitigating the Use of Explosives and IEDs Against Critical Infrastructure

*Presented:* January 19, 2023 12:00 PM – 1:00 PM

*Presenter:* Jason Stewart

*Host:* HDIAC

The mission of the Cybersecurity and Infrastructure Agency's Office for Bombing Prevention is to protect life and critical infrastructure by building capabilities within the public and across the private and public sectors to prevent, protect against, respond to, and mitigate bombing incidents.

This session will look at threat landscape awareness products, training opportunities, and videos to help government professionals and their supporting academia and industry partners anticipate, identify, and prevent bomb attacks. Participants will gain a deeper understanding of the national threat landscape and ways the government industry may be vulnerable, learn about national policy for counter-improvised explosive devices (C-IEDs), and hear more about the resources available to help prepare their physical space and educate staff. [LEARN MORE](#)

## EVENTS

### 17th International Conference on Face and Gesture Recognition

January 7–8, 2023

### 2023 Innovative Smart Grid Technologies North America (ISGT NA)

January 16–19, 2023

### Cleantech Forum North America

January 23–25, 2023

### 16th Homeland Security Week

January 24–25, 2023

### Energy Progress & Innovation (EPIC) 2023

January 24–26, 2023

### RENEW Wisconsin Energy Summit

January 26, 2023

### UAV Technology USA 2023

February 6–7, 2023

### Want your event listed here?


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

## DID YOU MISS OUR LAST WEBINAR?

“Microgrid Solutions for DoD Mission Energy Assurance”

[WATCH NOW!](#)

[or download the slides](#)

-  [Alternative Energy](#)
-  [Biometrics](#)
-  [CBRN Defense](#)
-  [Critical Infrastructure Protection](#)
-  [Cultural Studies](#)
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-  [Weapons of Mass Destruction](#)

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## RECENT NEWS



LLNL

**LLNL Researchers Observe That Ions Behave Differently in Fusion Reactions**

Lawrence Livermore National Laboratory



AFRL

**AFRL Teams With Industry to Expand Alternative Natural Rubber Supply**

U.S. Air Force



Shutterstock

**Looking at Challenges to Zinc-Ion Batteries**

Argonne National Laboratory



DTRA-JSTO

**Doing the Dirty Work by DTRA Public Affairs, Courtesy of DTRA-JSTO**

Defense Threat Reduction Agency



ERDC

**Improved Ice Removal Methods Lead to Patent for ERDC CRREL Inventor**

U.S. Army



ORNL

**Army Strong: Research Teams Join Forces to Invent Weld Wire for Tank, Infrastructure Repair**

Oak Ridge National Laboratory

