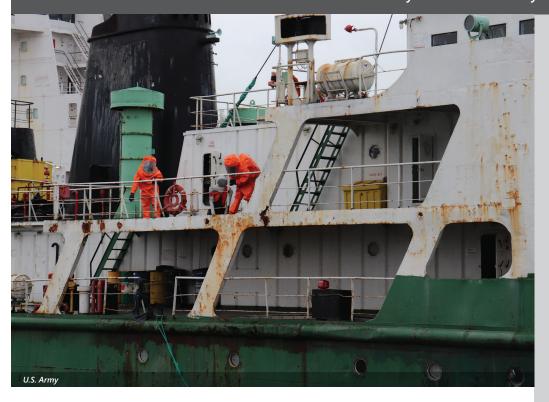


The Latest From the Homeland Defense & Security Information Analysis Center // December 20, 2022



## **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



## **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

## **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** 

#### **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, to share your event.

## **DID YOU MISS OUR LAST WEBINAR?**

"Microgrid Solutions for DoD Mission Energy Assurance"



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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## **RECENT NEWS**



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

Lawrence Livermore National Laboratory







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

U.S. Air Force





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

Argonne National Laboratory





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

**Defense Threat Reduction** Agency







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

U.S. Army





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

Oak Ridge National Laboratory



