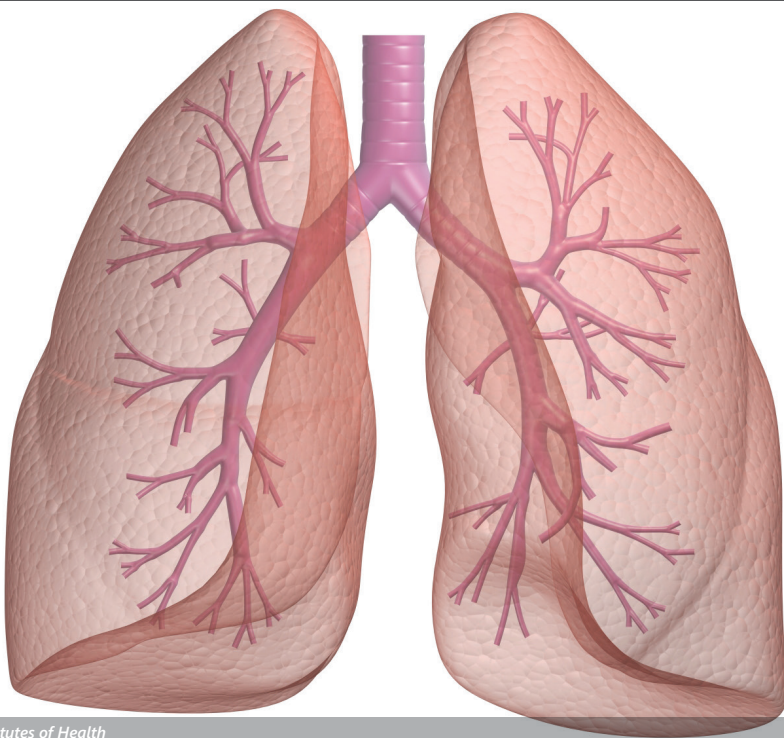


HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // April 11, 2023



National Institutes of Health

NOTABLE TECHNICAL INQUIRY

What biodefense communities have known about the efficacy of expedient masks to protect against infection by aerosolized agents?

HDIAC undertook a review of current open-source literature in search of any studies by the biodefense community on expedient masks. Additionally, HDIAC analysts conducted research to provide data on the degree to which particle size affects absorption in the lung. HDIAC analysts consulted with subject matter experts (SMEs) across industry and academia and undertook a literature review of publicly available data, as well as the Defense Technical Information Center (DTIC) Research & Engineering (R&E) Gateway. [READ MORE](#)



SNEAK PEEK

HDIAC HOSTED EVENT:

Mixed-Hazardous Waste Consequence Management Event | Real-Time Tabletop Exercise (TTX)

DATE:

June 13–15, 2023

ABOUT:

Day 1: Detailed background briefing on the scenario and presentations from CBRN subject matter experts.

Day 2: TTX, simulating the first eight hours of a nationally significant consequence management event.

Day 3: Conclude with an after-action briefing and discussion.

LOCATION:

Pollard Technology Conference Center in Oak Ridge, Tennessee



VOICE FROM THE COMMUNITY

Dr. Ron Edmond

Crisis Communications Subject Matter Expert (SME)

Dr. Ron Edmond serves as the crisis communications SME for Summit Exercises and Training. He works with a unique cadre experienced in the CBRNE arena, creating customized learning and training opportunities centered on crisis and risk communication expertise. He delivers in-person, virtual, and hybrid training courses using traditional (i.e., lectures, advanced organizers) and industry best practices (i.e., use of social media platforms) as instructional methodologies to build resiliency, mitigate risk, and respond to significant events before, during, and after crises using risk and crisis communication techniques.

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



U.S. Army

HIGHLIGHT

DoD Releases Biomanufacturing Strategy

The U.S. Department of Defense (DoD) released its Biomanufacturing Strategy, a document that will guide research efforts, industry partnerships, and relationships with allies in a rapidly developing technology field with significant implications for national security and economic competitiveness.

"The National Defense Strategy directs us to seed opportunities in biotechnology as part of our broader responsibility to ensure our enduring technological advantage, and the Department of Defense Biomanufacturing Strategy will help guide our efforts in this critical... [LEARN MORE](#)

FEATURED NEWS

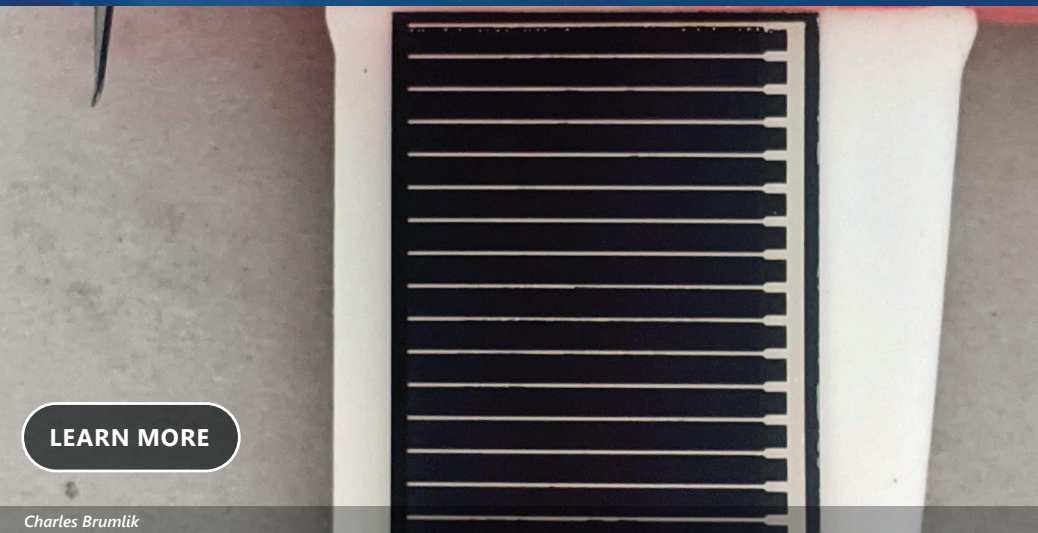
Army Lab Makerspace Program Enables Workforce Innovation

Aberdeen Proving Ground, MD – The Makerspace program at the U.S. Army Combat Capabilities Development Command Chemical Biological Center (DEVCOM CBC) provides state-of-the-art equipment and technology to enable the workforce to develop mission-related product prototypes and specialty items.



"This is an innovation space. We want people to come in and share their ideas so we can help them do a proof of concept, which can then go on and become a bigger project or a bigger program," explained... [READ MORE](#)

Image: U.S. Army



LEARN MORE

Charles Brumlik

WEBINARS

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

Presented: April 19, 2023 12:00 PM – 1:00 PM

Presenter: Bin Chen

Host: HDIAC

The defense and consumer industries have long sought ways to turn solar energy into electrical power with a compelling union of lightweight, high-efficiency, power density and acceptable cost. [LEARN MORE](#)



USAF

U.S. Nuclear Forces and the Nuclear Posture Review

May 10, 2023 12:00 PM



Shutterstock

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

June 15, 2023 12:00 PM

EVENTS

Micro Radiation Emergency Medicine (MicroREM)

April 11–13, 2023

Virtual

HIMSS Global Health Conference

April 17–21, 2023

Chicago, IL

Holistic Health and Fitness Symposium

April 24–26, 2023

Fort Eustis, VA

National Fire Control Symposium 2023

April 24–27, 2023

Lake Buena Vista, FL

Wildfire Technology Management Symposium

April 25–26, 2023

Rancho Cordova, CA

Want your event listed here?



Email contact@hdiac.org, to share your event.

DID YOU MISS OUR LAST WEBINAR?

“Vulnerabilities to Food Security: Impacts on Military Readiness and National Security”

WATCH NOW!

[or download the slides](#)

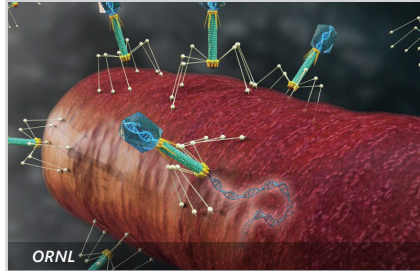
-  Alternative Energy
-  Biometrics
-  CBRN Defense
-  Critical Infrastructure Protection
-  Cultural Studies
-  Homeland Defense & Security
-  Medical
-  Weapons of Mass Destruction

The inclusion of hyperlinks does not constitute an endorsement by HDIAC or the U.S. Department of Defense (DoD) of the respective sites nor the information, products, or services contained therein. HDIAC is a Defense Technical Information Center (DTIC)-sponsored Information Analysis Center, with policy oversight provided by the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)). Reference herein to any specific commercial products, processes, or services by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the U.S. government or HDIAC.

4695 Millennium Drive, Belcamp, MD 21017
 443-360-4600 | contact@hdiac.org | hdiac.org
 Unsubscribe | Past Digests



RECENT NEWS



ORNL

Research Team Proves Bacteria-Killing Viruses Deploy Genetic Code-Switching to Deceive Hosts

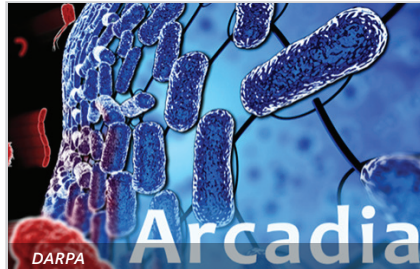
Oak Ridge National Laboratory



Shutterstock

Inhalable Hydrogel Protects Lungs From SARS-CoV-2

National Institutes of Health



DARPA

DARPA Selects Teams to Build Beneficial Biofilms

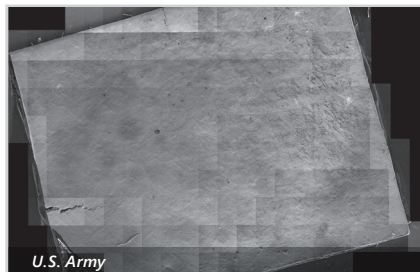
DARPA



DARPA

Concrete in Disrepair? DARPA May Help You BRACE It

DARPA



U.S. Army

Revisiting Cold Fusion Possibilities for Clean Energy

ERDC



FBI

Countering Domestic Racially and Ethnically Motivated Violent Terrorism on Social Media

Homeland Security Operational Analysis Center

