

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // August 16, 2021

**UPDATE — HDIAC STATE-OF-THE-ART REPORT (SOAR) NOW PUBLISHED:
Nanotechnology Applications for Combat Casualty Care**



NOTABLE TECHNICAL INQUIRY

What is the state of 5G technology (and beyond) as it applies to the U.S. Department of Defense (DoD) and military?

The fifth-generation wireless communication technology, abbreviated “5G,” has the potential to transform communication systems. The 5G mobile network will deliver higher speeds, lower latency, increased reliability, more network capacity, and increased interconnectivity. With the deployment, modernization, and implementation of 5G technology into both preexisting and new systems, immense improvements are expected. In recent years, there has... [READ MORE](#)



SNEAK PEEK

UPCOMING WEBINAR:
Countering Unmanned Aerial Systems in the Homeland: Constraints and Emerging Solutions

DATE:
August 18, 2022

TIME:
12:00 PM

PRESENTED BY:
John Clements

HOST:
HDIAC



VOICE FROM THE COMMUNITY

Corey Collings

Director, RDT&E, First Line Technologies

As the Research, Development, Test, and Evaluation (RDT&E) Director, Corey Collings focuses on the development and application of technology for the decontamination, mitigation, and remediation of chemical and biological warfare agents and other hazardous materials. To achieve these goals, he works with government, academic, and private labs to transfer technology from the prototype stage to fully operational systems and kits for the end user, bringing technology from "Lab to Life-Saving."

BECOME A SUBJECT MATTER EXPERT

SOAR

STATE-OF-THE-ART REPORT (SOAR)
AUGUST 2022

123rf.com

HIGHLIGHT

Nanotechnology Applications for Combat Casualty Care

This state-of-the-art report focuses on advances in combat casualty care (CCC) treatments, tools, and techniques enabled by the application of nanotechnology. Recent research and development at the nanoscale have yielded innovations in hemorrhage control and fluid resuscitation, wound management and infection, bone regeneration and engineering, neurotrauma and pain control, and advanced medical monitoring and diagnostics. For each of these areas, we review current trends in applied and translational research, commercially available products (including those funded by the U.S. Department of Defense [DoD]), existing research gaps, and technical- and policy-related implementation... [LEARN MORE](#)

FEATURED NEWS

DoD Committed to Reducing Risk of Nuclear War, Says Official

Colin H. Kahl spoke virtually today at the United Nations' Nuclear Non-Proliferation Treaty Review Conference in New York City.

"However, today's security environment is more challenging than at any time since the end of the Cold War and arguably a more complex one, as there are many challenges that impact progress toward the achievement of the Non-Proliferation Treaty aspirations," he said. [READ MORE](#)



Image: U.S. Air Force



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WEBINARS

Countering Unmanned Aerial Systems in the Homeland: Constraints and Emerging Solutions

Presented: August 18, 2022 12:00 PM – 1:00 PM

Presenter: John Clements

Host: HDIAC

Unmanned aerial systems (UAS) are ubiquitous and useful but can also be used for nefarious purposes. Law enforcement faces many constraints when mitigating UAS that enter airspace within their jurisdiction. Detection technology is useful but will only help first responders detect and identify UAS. Mitigating UAS that may have bad intentions is much more complicated and requires skillful application of laws.

This presentation will explore the legal constraints faced by law enforcement at all levels (including some federal agencies), best practices to overcome these challenges, and some emerging or already fielded technologies that can be applied to local law enforcement's growing UAS challenge. [LEARN MORE](#)



Nuclear Deterrence

September 28, 2022 12:00 PM

EVENTS

Counter UAS Summit

August 17-18, 2022

Medical Modeling & Simulation Expo at DHA

August 18, 2022

Fire-Rescue International (FRI)

August 24-26, 2022

Commercial UAV Expo

September 6-8, 2022

Military Health System Research Symposium

September 12-15, 2022

Drone Assessment and Response Tactics (DART) & Unmanned Aircraft Systems Program Development (UASPD) Training Courses




October 4-5, 2022

CBRNe Convergence 2022

October 31-November 2, 2022

Want your event listed here?

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

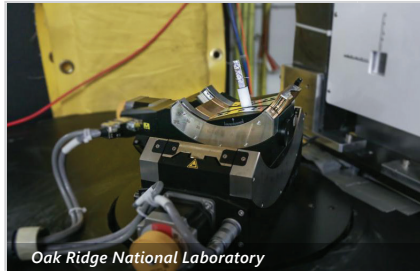
-  Alternative Energy
-  Biometrics
-  CBRN Defense
-  Critical Infrastructure Protection
-  Cultural Studies
-  Homeland Defense & Security
-  Medical
-  Weapons of Mass Destruction

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RECENT NEWS



Oak Ridge National Laboratory

Automating Neutron Experiments With AI

Alternative Energy



NIST

NIST Develops Genetic Material for Validating Monkeypox Tests

Medical



Department of Homeland Security

Field Tests Culminate Four Years of Bioagent Studies

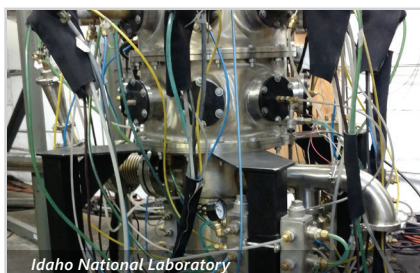
CBRN Defense; Medical



U.S. Air Force

Messenger RNA Technology Could Be Used to Develop Infectious Disease Therapeutics

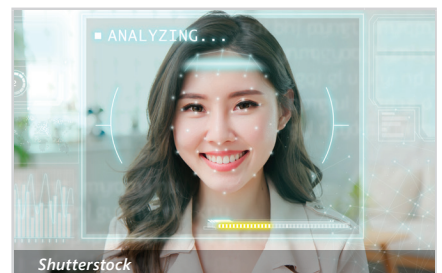
Medical



Idaho National Laboratory

Small Business Tests Promising New Battery at INL

Alternative Energy



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New, Unsupervised AI Method Performs Multimodal Emotion Recognition

Biometrics

