

HOMELAND

Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // August 15, 2023

JOURNALS ARE BACK!

After a long absence, the HDIAC Journal is returning! We are now accepting abstracts for our first issue and need your help!

This issue will be a general edition covering any of HDIAC's eight focus areas.

WHAT TO INCLUDE IN ABSTRACT:

- 200 words
- All authors
- Prospective title
- Highlighted focus area(s)
- Your organization

ARTICLE DEADLINE:

September 15, 2023

SUBMIT IDEAS/ABSTRACT:

journal@hdiac.org

To view previous HDIAC journals, visit <https://hdiac.org/journals>.

DID YOU MISS OUR LAST WEBINAR?

"Contemporary Counter Unmanned Aerial System Technologies"

[CAC holders can view the CUI slides via DoDTechipedia](#)

NOTABLE TECHNICAL INQUIRY

Do you know of unclassified datasets related to former WMD programs such as the U.S. Biological Warfare Program?

HDIAC received a technical inquiry in support of a national laboratory looking for datasets originating from former WMD programs. The purpose of this work is to increase analysts' ability to detect and state proliferative capabilities across all chemical, biological, radiological, and nuclear areas more... [READ MORE](#)

UPCOMING WEBINAR



Printing Destruction: AM, WMD, and the Emerging Challenges to Security

August 16, 2023 12:00 PM – 1:00 PM

Presenter: Gregory Nichols

Host: HDIAC

This webinar presentation contains CUI and is therefore limited to government and contractors only.

Additive manufacturing (AM) offers significant advantages over more traditional types of manufacturing technologies, including a smaller facility footprint, reduced energy and resource needs, and increased output capacity in less time. These characteristics of AM are revolutionizing production... [READ MORE](#)

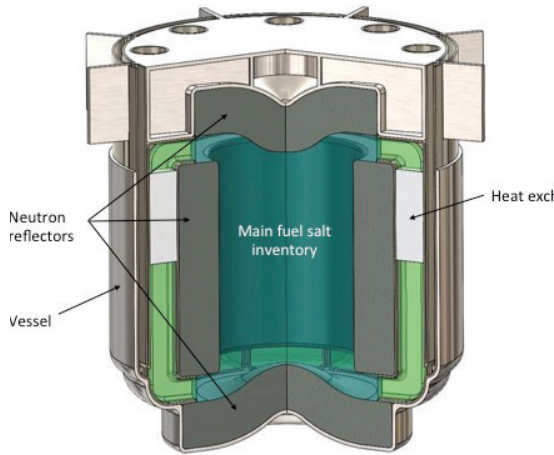
FUTURE WEBINARS

Policies, Procedures, and Dangerous Plumes...

September 21, 2023 12:00 PM – 1:00 PM

U.S. Nuclear Forces and the Nuclear Posture Review

November 2, 2023 12:00 PM – 1:00 PM



U.S. Department of Energy

HIGHLIGHT

DOE Releases Final Environmental Assessment for Molten Chloride Reactor Experiment

WASHINGTON, D.C. – The U.S. Department of Energy (DOE) released the final environmental assessment and proposed finding of no significant impact (FONSI) for the design, construction, and operation of the Molten Chloride Reactor Experiment (MCRE) at Idaho National Laboratory (INL). DOE invites the public to review the final environmental assessment and comment on the proposed FONSI for this project. [LEARN MORE](#)

EVENTS

2023 Operational Energy & Logistics Summit
August 22-24, 2023
Honolulu, HI

Southeast Energy Summit
October 25-27, 2023
Atlanta, GA

CBRNe Convergence 2023
November 7–9, 2023
Knoxville, TN

Materials in Nuclear Energy Systems (MiNES 2023)
December 10–14, 2023
New Orleans, LA

Want your event listed here?
Email contact@hdiac.org, to share your event.



VOICE FROM THE COMMUNITY

Scott Armistead
HDIAC Senior Staff Engineer

Scott Armistead is a senior staff engineer for SURVICE Engineering, with nearly 35 years working in munitions research, development, operational, and live-fire test and evaluation. He previously served as the Senior Test Manager and Program Engineer for the Joint Munitions T&E Program Office. His experience includes infrared, visible, ultraviolet, millimeter-wave, seismic, magnetic, and acoustic sensors and weapons technologies; kinetic and directed energy weapon systems effectiveness; countermeasures/counter-countermeasures development; signature management; and platform survivability.

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 a subject matter expert (SME)!

Join our team today!

**BECOME A SUBJECT
MATTER EXPERT**

ABOUT TECHNICAL INQUIRIES (TIs)

WHAT IS THE TI RESEARCH SERVICE?

- FREE service conducted by technical analysts
- 4 hours of information research
- Response in 10 business days or less

WHO CAN SUBMIT A TI?

- U.S. government (federal, state, or local)
- Military personnel
- Contractors working on a government or military contract

WHY UTILIZE THE TI RESEARCH SERVICE?

- Get a head start on your technical questions or studies
- Discover hard-to-find information
- Find and connect with other subject matter experts in the field
- Reduce redundancy of efforts across the government

To submit a TI, go to <https://hdiac.org/technical-inquiries>

FOR MORE: FOLLOW US ON SOCIAL!



U.S. Marine Corps

RECENT HDIAC TIs

- What is the daily fuel demand for a U.S. Marine Corps expeditionary advanced base operations Marine Littoral Regiment?
- Is there a spray/liquid/foam/aerosol to identify the presence of biological warfare agents via colorimetric change?
- What companies dealing in lithium-ion batteries in the DoD supply chain are sole source or single qualified, and what technologies are considered dual use?

RECENT CSIAC & DSIAC TIs

- What is the current state of malware and cyber threats on embedded systems?
- What software systems can be used to test the ARTS SW C2 application with an X-band radar to replicate threats and facilitate Officer Aptitude Rating tests? Can you provide an assessment for each?
- Can you provide information on the U.S. Navy's platform integration core technology specific to unmanned underwater vehicles (UUVs)?

FEATURED NEWS

Bio-inspired Device Captures Images by Mimicking Human Eye

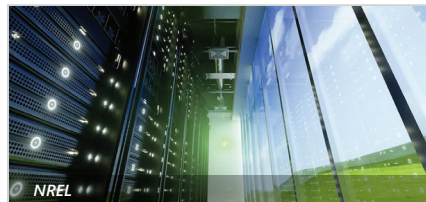
Drawing inspiration from nature, Penn State scientists have developed a new device that produces images by mimicking the red, green, and blue photoreceptors and the neural network found in human eyes. [READ MORE](#)

RECENT NEWS



Fueling Soldier Performance in the Frozen Frontier

U.S. Army Research Institute of Environmental Medicine



A Decade of Greener Computing Blooms Inside NREL's Data Center

NREL



Research Awards to Improve Water Desalination Methods

NREL



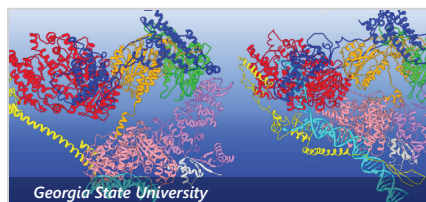
DOE Launches First-Ever "Cleanup to Clean Energy" Initiative to Explore Generating Clean Energy on DOE...

U.S. Department of Energy



DARPA Seeks to SHIELD Blood From Fungal and Bacterial Pathogens

DARPA



Georgia State Researchers Use ORNL Supercomputer to Gain New Insights Into DNA Repair

Oak Ridge National Lab

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

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