

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // May 13, 2025

## MAY IS MENTAL HEALTH AWARENESS MONTH

Mental Health Awareness Month was established in 1949 to increase awareness of the importance of mental health and wellness and highlight resources to help support those affected by mental health challenges. The Military Health System has many resources available to help service members, families, or veterans who may be struggling with such challenges.

Mental health disorders include anxiety, depression, seasonal affective disorder, bipolar disorder, major depression, schizophrenia, PTSD, and more.

**Learn more here:**

<https://health.mil/Military-Health-Topics/Mental-Health>.

## DID YOU MISS OUR LAST WEBINAR?

"Terrorist Exploitation of Commercial Technologies and Implications for U.S. National and Homeland Security..."

 **WATCH NOW!**

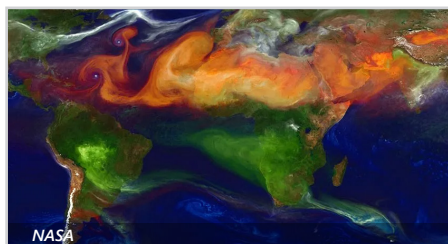
[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

**What is the quantity and rate of DNA transfer of wet and dry biological fluid stains (semen, blood, saliva, and vaginal fluid) on clothing and fabrics?**

This preliminary, rapid literature scan of the transfer rate of DNA from biological fluids between pieces of fabric involved searching relevant publications from 2007 to 2024. The research topic is challenged by the number of variables that could impact the transfer rate of DNA (individual shedder attributes, biological fluid type, dryness of the fluid, fabric composition/porosity, transfer method/friction/pressure, time, environmental conditions, sampling... [READ MORE](#)

## UPCOMING WEBINAR



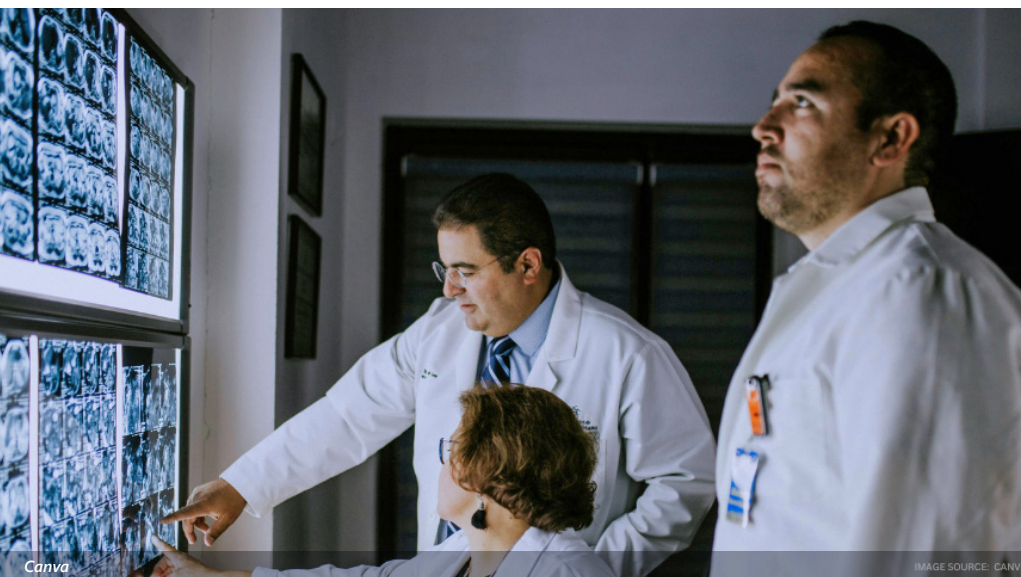
### Grasping Publicly Available Aerosol Data Streams

COMING SOON  
12:00 PM – 1:00 PM

*Presenter(s): Jeffrey S. Reid, Ph.D.*

*Host: HDIAC*

One of the most difficult challenges of any potential environmental data consumer is coping with the sheer volume, type, and quality of available datasets. Whether this consumer wants to know if they should carry an umbrella or invest in an orange juice future, petabytes of information are needed to make a decision. Each day, millions of observations and dozens of satellites support weather forecasts from minutes to years. [READ MORE](#)



## HIGHLIGHT

### Walter Reed Launches RAPTOR Diagnostic Program to Accelerate Operational Readiness

BETHESDA, Md. — Walter Reed National Military Medical Center has launched the Rapid Assessment Program for Tactical Operational Readiness (RAPTOR), a new multidisciplinary diagnostic initiative designed to provide comprehensive evaluations for active duty service members, with a particular focus on rapid return-to-duty cases.

The RAPTOR program brings together a full team of expert medical and surgical clinicians to deliver individualized assessments using a whole-body, systems-based approach. Designed for speed and precision,... [LEARN MORE](#)

## EVENTS

**The 19th IEEE International Conference on Automatic Face and Gesture Recognition**  
May 26–30, 2025  
Clearwater, FL

**Energy Exchange**  
August 5–7, 2025  
Anaheim, CA

**Want your event listed here?**  
Email [contact@hdiac.org](mailto:contact@hdiac.org) to share your event.



## VOICE FROM THE COMMUNITY

### Michael Prasad

*Executive Director, Center for Emergency Management Intelligence Research (CEMIR)*

Michael Prasad is a certified emergency manager and executive director of CEMIR, the president of the International Association of Emergency Managers-USA Region 2, and a national-level expert on mass care for issues impacting children in disasters. As a professional writer on emergency management policies and procedures, he authored "Emergency Management Threats and Hazards: Water," "Rusty the Emergency Management Cat," and "Leadership Lessons Learned and Applied in Emergency Management and Beyond."

## 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**

# TECHNICAL INQUIRIES (TIs)

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## 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.dtic.mil/technical-inquiries>

## EXAMPLE HDIAC TIs

- What new technology and research is the U.S. Navy performing to supply/refuel/recharge large unmanned surface vehicles?
- How can directed energy be used for decontamination or contamination mitigation?
- What military R&D research articles exist on chemical detection technologies and novel techniques since 2018?

[MORE HDIAC INQUIRIES](#)

## EXAMPLE CSIAC & DSIAC TIs

- What is the military's position on the required degree of artificial intelligence (AI) explainability for deploying AI-enabled weapon systems?
- What information is available on development efforts for unmanned systems that can transition between air and water (surface and/or below surface)?
- What high-temperature elastomer liner materials are available that can endure ablative environments?

## VIEW MORE TIs

The Information Analysis Centers answer more inquiries outside the scope of HDIAC's focus areas. To search more research topics, visit our sister websites to expand your search.

[CSIAC INQUIRIES](#)

[DSIAC INQUIRIES](#)





FEATURED NEWS

WounDx™: Revolutionizing Wound Care to Improve Warfighter Readiness and Reduce Costs

Combat casualties often experience complex extremity injuries involving extensive soft tissue damage, bone fractures, and potential limb loss, requiring specialized medical care and reconstruction. [READ MORE](#)

RECENT NEWS



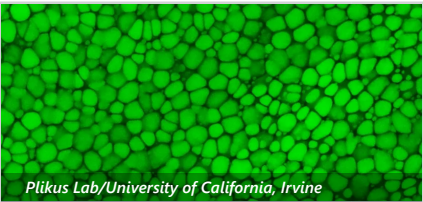
Cool Mission: ONR Aids Deployment of Data Buoys Across Arctic Ocean

Office of Naval Research



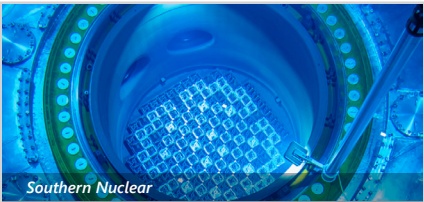
Fiber Computer Allows Apparel to Run Apps and “Understand” the Wearer

Massachusetts Institute of Technology



Unique Skeletal Tissue May Enable New Regenerative Medical Treatments

U.S. National Science Foundation



Testing Starts on First Higher Enriched Fuel in U.S. Commercial Reactor

U.S. Department of Energy



Advantages and Challenges of Nuclear-Powered Data Centers

U.S. Department of Energy



Using Artificial Intelligence to Improve Radiation Dose Prediction Accuracy

Oak Ridge Institute for Science & Education



Alternative Energy



Biometrics



CBRNE Defense



Critical Infrastructure Protection



Cultural Studies



Homeland Defense & Security



Medical



Weapons of Mass Destruction

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