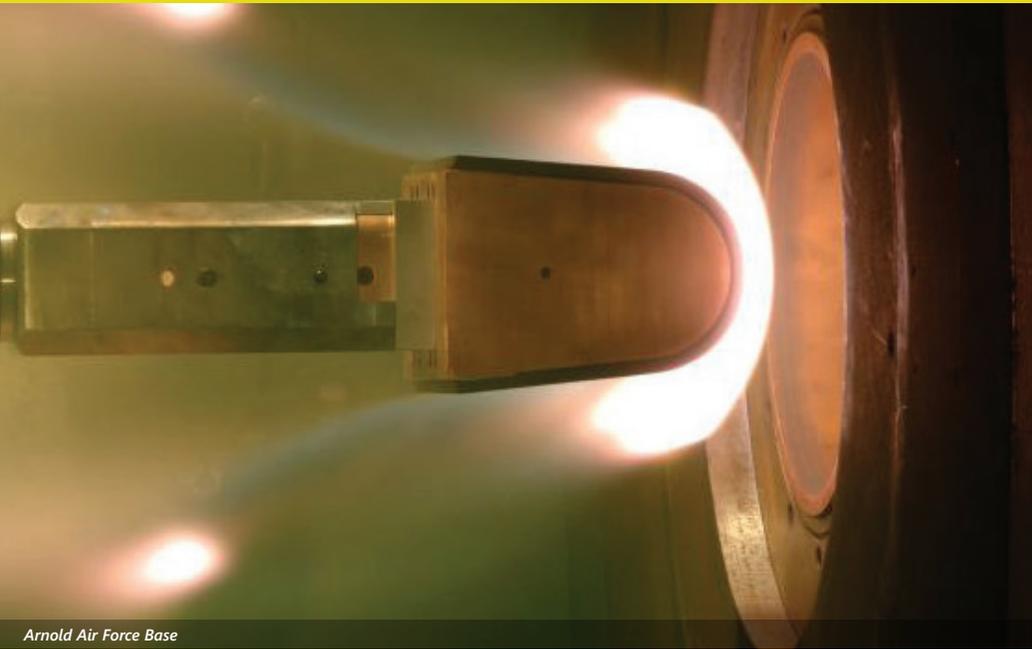


DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // May 30, 2023

**UPDATE — HDIAC STATE-OF-THE-ART REPORT NOW PUBLISHED:
"High-Power, Radio Frequency/Microwave, Directed Energy Weapons Models and Simulations"**



Arnold Air Force Base

NOTABLE TECHNICAL INQUIRY

What facilities exist for testing high-temperature hypersonics?

The Defense Systems Information Analysis Center (DSIAC) was asked to identify what high-temperature test facilities exist for testing hypersonics capabilities. A list of facilities was compiled in tandem with examples of high-temperature testing and research being done across government, academia, and industry. Research varied from testing materials to mechanical testing and thermal protection systems. Facilities and organizations performing high-temperature mechanical testing for fracture toughness, hardness, modulus, strength, and creep resistance were also relevant to the search. [READ MORE](#)



Empowering Small and Medium Size Enterprises Through Effective Additive Manufacturing Data Management
June 6 - June 8, 2023

NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

NIST EVENT

Empowering Small and Medium Size Enterprises Through Effective Additive Manufacturing Data Management

The workshop will explore how best to empower the productive working relationship of small and medium size enterprises (SMEs) with top tier manufacturers through effective additive manufacturing (AM) data management. NIST will host the event in partnership with the National...

Date: June 6–8, 2023

Location: Rockville, MD



VOICE FROM THE COMMUNITY

David Boyd
 VP/CTO - Security and Mission Solutions, Parsons Corporation

David Boyd works on the development of national and international standards related to artificial intelligence (AI) and the importance of data and data governance in providing ethical and safe AI/machine-learning systems as the convenor of ISO/IEC JTC1 SC 42 AI – WG 2 Data. He focuses on the challenges of large language models and other generative AI models in bias, transparency, privacy, and accuracy. He also heads up a number of initiatives within Parsons related to counter unmanned aircraft systems and infrastructure protection.

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

2023 MIXED-HAZARDOUS WASTE CONSEQUENCE MANAGEMENT EVENT

REAL-TIME TABLETOP EXERCISE

HDIAC



HIGHLIGHT

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

This training event is a three-day, in-person tabletop exercise (TTX) hosted by the Homeland Defense & Security Information Analysis Center (HDIAC). Day 1 will provide a detailed background briefing on the scenario and presentations from chemical, biological, radiological, and nuclear subject matter experts. The TTX will occur on Day 2, simulating the first eight hours of a nationally significant consequence management... [LEARN MORE](#)

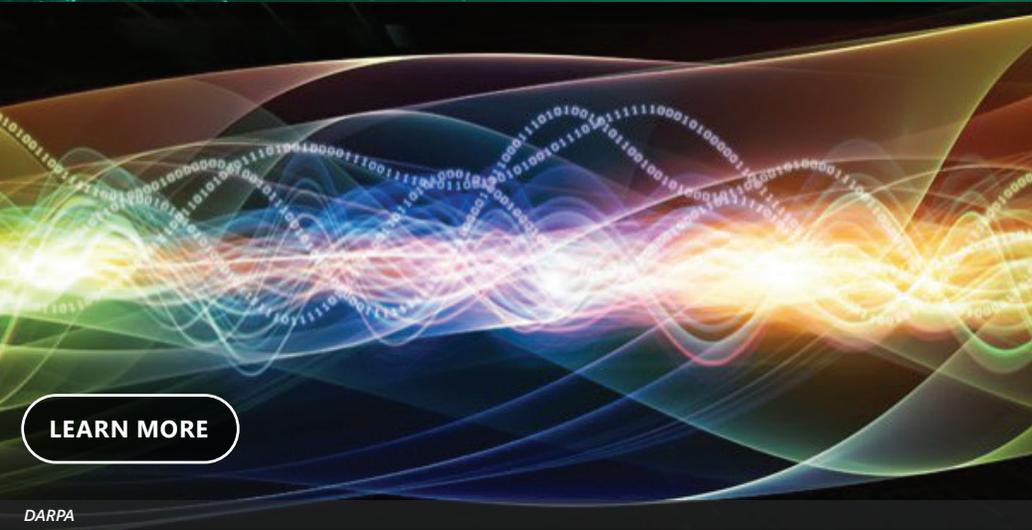
FEATURED NEWS

Research on Light Emission From Black Phosphorus Hints at New Applications

Energy-efficient LEDs (light-emitting diodes) have begun to replace many types of lighting both indoor and outdoor. A key reason for the rise of LEDs has been materials research that greatly improved the quality and intensity of light achievable with these devices. But those materials must be handled with very high levels of precision, including surfaces that are as defect-free... [READ MORE](#)



Image: Berkely Lab



LEARN MORE

DARPA

WEBINARS

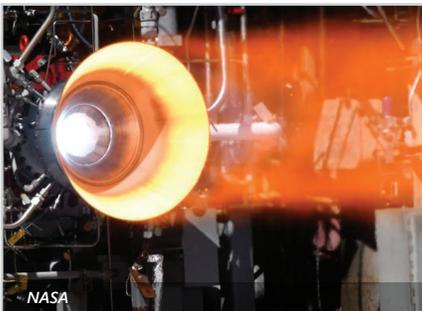
High-Power, Radio Frequency/Microwave, Directed Energy Weapons Models and Simulations

Presented: June 21, 2023 12:00 PM – 1:00 PM

Presenter: John Tatum

Host: DSIAC

This webinar presentation will provide a survey overview of the state of the art in modeling and simulation (M&S) tools related to researching and developing high-power, radio frequency/microwave, directed energy weapons (HPM DEWs) and evaluating their effectiveness. [LEARN MORE](#)



NASA

A Materials Science Perspective on Space Propulsion Technology

June 19, 2023 12:00 PM

EVENTS

NSMMS & CRASTE Joint Symposia

June 26–29, 2023

Tucson, AZ



Image: DVIDS

Military Standard 810 (MIL-STD-810) Test Training (NTS Chicago, IL)

July 10–13, 2023

Chicago, IL



Image: Equipment Reliability Institute

Space and Missile Defense Symposium

August 8–10, 2023

Huntsville, AL



Image: U.S. Navy

Want your event listed here?

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

DID YOU MISS OUR LAST WEBINAR?

“Electromagnetic Shielding With Composite Materials”

WATCH NOW!

[or download the slides](#)

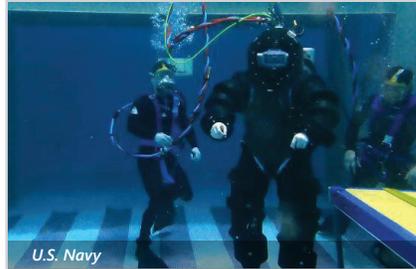
-  Advanced Materials
-  Autonomous Systems
-  C4ISR
-  Directed Energy
-  Energetics
-  Military Sensing
-  Non-Lethal Weapons
-  RMQSI
-  Survivability & Vulnerability
-  Weapons Systems

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U.S. Navy

Navy Launches Historic Aircrew Study to Update Size Requirements for a Diverse Fleet

Naval Air Warfare Center



DARPA

New Sensors With the HOTS for Extreme Missions

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ANL

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Argonne National Laboratory



NIST

Researchers Pin Down PFAS Prevalence in Firefighter Gear

NIST