

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // February 18, 2025

## END-GEN PROPOSER'S DAY

National security missions need to generate, store, use, transmit, and receive information and data in secure facilities and "in the wild." Waveforms are often used as the method for transmitting and receiving data generated in these missions.

The IARPA Endless Generative Waveforms (End-Gen) Proposers' Day meeting will be held on Thursday, February 27, 2025, from 9:30 a.m. to 4:30 p.m. EST in Arlington, VA, to introduce the End-Gen program and provide information on technical requirements and objectives. A virtual attendance option via Webex will also be available.

**Learn more and register here:**

<https://www.iarpa.gov/newsroom/article/end-gen-proposers-day>.

## DID YOU MISS OUR LAST WEBINAR?

"NSWC Indian Head Division Battle Lab"

 **WATCH NOW!**

[or download the slides](#)

## NOTABLE TECHNICAL INQUIRY

**How is the U.S. Department of Defense conceptualizing the ultralow-cost unmanned aircraft system phenomenon after its widespread success in Ukraine?**

The U.S. Department of Defense (DoD) conceptualizes ultralow-cost unmanned aircraft systems (UASs) – often called "small UAS" (sUASs) – as both a threat to its operations and an opportunity for force multiplication. Counter-sUAS (C-sUAS) operations have become an organizational and financial priority... **READ MORE**

## UPCOMING WEBINAR



### Overview of Space Nuclear Propulsion and Power

February 26, 2025  
12:00 PM – 1:00 PM

*Presenter(s): Greg Meholic*

*Host: DSIAC*

Commercial and government agencies are exploring novel space missions that would expand or enhance various capabilities in near-Earth and interplanetary regimes. These missions may require potentially enabling propulsion and electrical power technologies that offer unique benefits and... **READ MORE**

## FUTURE WEBINARS

### Material and Structure Considerations for Morphing Aerospace Skins

March 26, 2025  
12:00 PM – 1:00 PM



Coda Octopus

## HIGHLIGHT

### "Turn on the Lights": DAVD Display Helps Navy Divers Navigate Undersea Conditions

ARLINGTON, Va.—A favorite childhood memory for Dr. Sandra Chapman was visiting the USS *Arizona* Memorial in Pearl Harbor with her father. They hung out at the memorial so often that they memorized lines to the movie playing prior to the boat ride to the memorial. [LEARN MORE](#)

## EVENTS

#### 2025 Special Air Warfare Symposium

February 25–27, 2025  
Fort Walton Beach, FL

#### 2025 Pacific Operational Science & Technology (POST) Conference

March 3–7, 2025  
Honolulu, HI

#### Military Women's Symposium

March 6–7, 2025  
Washington, DC

#### 2025 National Fire Control Symposium

March 10–13, 2025  
Norfolk, VA

#### 2025 Space Technologies Independent Research & Development (IR&D) Technology Interchange Meeting

March 24–28, 2025  
Virtual

#### Joint Aircraft Survivability Program (JASP) Model Users Meeting (JMUM) 2025

March 25–27, 2025  
Atlanta, GA

#### Want your event listed here?

Email [contact@dsiac.org](mailto:contact@dsiac.org) to share your event.



## VOICE FROM THE COMMUNITY

### Gabriel Goodwin

*Aerospace Engineer, Naval Research Laboratory*

Dr. Gabe Goodwin is an aerospace engineer in the Hypersonic Aerodynamics and Propulsion Section of the Naval Research Laboratory. His research focuses on the study of airbreathing engines for hypersonic propulsion, including ramjets, scramjets, and detonation engines. His group uses a variety of computational tools, from first principles-based models to high-fidelity computational fluid dynamics, to explore the combustion physics in these engines to improve their performance and operability.

## 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)

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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?

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- 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://dsiac.dtic.mil/technical-inquiries>

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## RECENT DSIAC TIs

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- What current technical methods are utilized to identify and monitor tactical nuclear weapons?
- Can high-speed imaging of nonenergetic reactive armor be provided?
- What radio frequency threat system models exist, and how well can they account for electronic warfare?

## RECENT CSIAC & HDIAC TIs

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- Are reinforcement learning techniques available for a next-generation threat system?
- What basic market research is available on a specific intracranial pressure system and similar technologies?
- What government agencies prioritize work in early-integrated chemical, biological, radiological, nuclear, and explosive threat detection?

## FEATURED NEWS

### GTRI Supports Development of Army's Integrated Battle Command System (IBCS)

The U.S. Army is moving its air and missile defense assets to a new fire control network that will allow sensors such as radars and a variety of defensive and offensive weapons anywhere on the network... [READ MORE](#)

## RECENT NEWS



Blue Canyon Technologies

### Set to Study Earth's Electrojets, EZIE Satellites Arrive at Launch Site

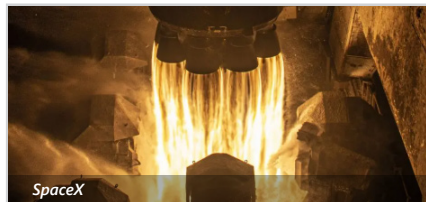
Johns Hopkins Applied Physics Laboratory



U.S. Navy

### U.S. Navy F/A-18 Fleet Gets Enhanced Target Tracking as Infrared Search and Track...

Naval Air Systems Command



SpaceX

### Superalloys Resist Wear at Nearly Forge-Level Heat Using New Process

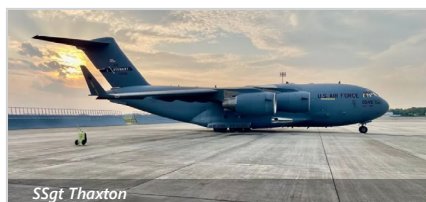
U.S. National Science Foundation



Boeing

### U.S. Air Force Delivers First EPAWSS-Modified F-15E Strike Eagle to RAF Lakenheath

U.S. Air Force



SSgt Thaxton

### Cutting-Edge Microvane Technology Ready to Modernize C-17 Fleet

U.S. Air Force Research Laboratory



DARPA

### Squeezing Light to Unlock New Frontiers in Signal Detection

Defense Advanced Research Projects Agency



Advanced Materials



Autonomous Systems



C4ISR



Directed Energy



Energetics



Military Sensing



Non-Lethal Weapons



RMQSI



Survivability & Vulnerability



Weapons Systems

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