Defense Systems DIGEST

7 MAY 2019 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER

NOTABLE TECHNICAL INQUIRY

Are there any more capable engine anti-ice valves being produced by industry?

DSIAC was asked by a military operational unit to determine if any commercial anti-ice valve (AIV) alternatives were available for the CV-22 aircraft which might perform better than the currently installed AIV given the CV-22's demanding operational environment. Our staff worked with personnel from the Reliance 21 Aircraft... Read More

▶ SUBMIT YOUR TECHNICAL INQUIRY – 4 hours of research service for FREE

FEATURED NEWS

AFRL Commander Introduces New AF Science and Technology Strategy

The commander of the U.S. Air Force Research Laboratory (AFRL) presented highlights of the new Air Force Science and Technology Strategy for 2030 and beyond to members of the local media April 18 at the National Museum of the U.S. Air Force.

Speaking in front of several experimental aircraft on display that implemented technologies developed at AFRL, Maj. Gen. William Cooley told reporters that the new strategy prioritizes demands on time, space, and complexity in future conflicts across all domains. The strategy aligns with the National Security Strategy and the National Defense Strategy and lays out a path forward for the Air Force Science and Technology ecosystem to deliver warfighting capabilities at the speed of relevance and necessity.

AFRL collected over 1,500 ideas from academia, industry, and government during the 18 months the strategy was being developed that address the "what" and "how" of the strategy. **Read More**

VOICE FROM THE COMMUNITY

Ali K. Raz, *CSEP, Ph.D., Purdue University's School of Aeronautics and Astronautics*

My research interests are in complex systems, system-of-systems engineering, and information fusion systems—particularly applying statistical methods for information fusion performance evaluation. I have worked at the John Hopkins University (JHU) Applied Physics Laboratory and with a DoD agency in fusion performance evaluation. I was the recipient of Alexander Kossiakoff fellowship awarded jointly by the JHU and the International Council on Systems Engineering (INCOSE) for developing performance evaluation methods for large-scale system-of-systems.

▶ Apply to be part of our network of over 1,000 subject matter experts.

UPCOMING EVENTS

2019 MSS Active E-O Systems & Electro-Optical & Infrared Countermeasures (IRCM) Conference

7 May 2019 to 9 May 2019

2019 DEFENSE Forum

7 May 2019 to 9 May 2019

C4ISR Symposium

7 May 2019 to 8 May 2019

National Center for Defense Manufacturing and Machining (NCDMM) Summit

8 May 2019

▶ Want your event listed here? Let us know!

SEEKING YOUR KNOWLEDGE

What modular payloads can be swapped into and out of air vehicles to support ISR, EA, AEW, and communications relay missions?

What autonomous or remotely-operated systems can be used for monitoring and cleaning foreign object debris on a runway?

Do you have any information on the legacy codes DAGER and SABER?

What display technologies can be used for a multiple-intelligence, ship-tracking fusion system?

▶ To learn more about technical inquiries click here!

DSIAC JOURNAL SPRING 2019

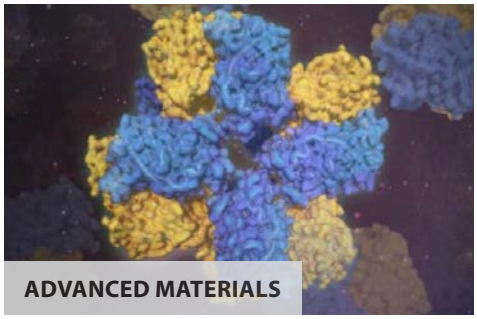
A Titanium-Based Igniter System for Hand-Grenade Fuzes

Also in This Issue:

- Laser Power Beaming
- Random Error in Small-Caliber Dispersion
- Additive Manufacturing for Aerospace Maintenance and Sustainment
- Microdiode Lasers: A Safer Alternative for Electrically-Fired Energetic Devices

▶ Have an idea for a topic? Please contact us to write an article!

RECENT NEWS



ADVANCED MATERIALS

Scientists Lead the Way to Produce Tools for Engineering Biomolecules

AUTONOMOUS SYSTEMS

Army Preparing to Field New Unmanned Ground Systems

DIRECTED ENERGY

The U.S. Air Force Has Revealed a New Program to Build Laser Weapons and Much More

ENERGETICS

New Hybrid Energy Method Could Fuel the Future of Rockets, Spacecraft for Exploration

MILITARY SENSING

Lockheed Martin Launches Tethered Indago UAS for Continuous ISR

NON-LETHAL WEAPONS

Air Force's Mjölnir? Service Testing THOR Anti-Drone System

RMQSI

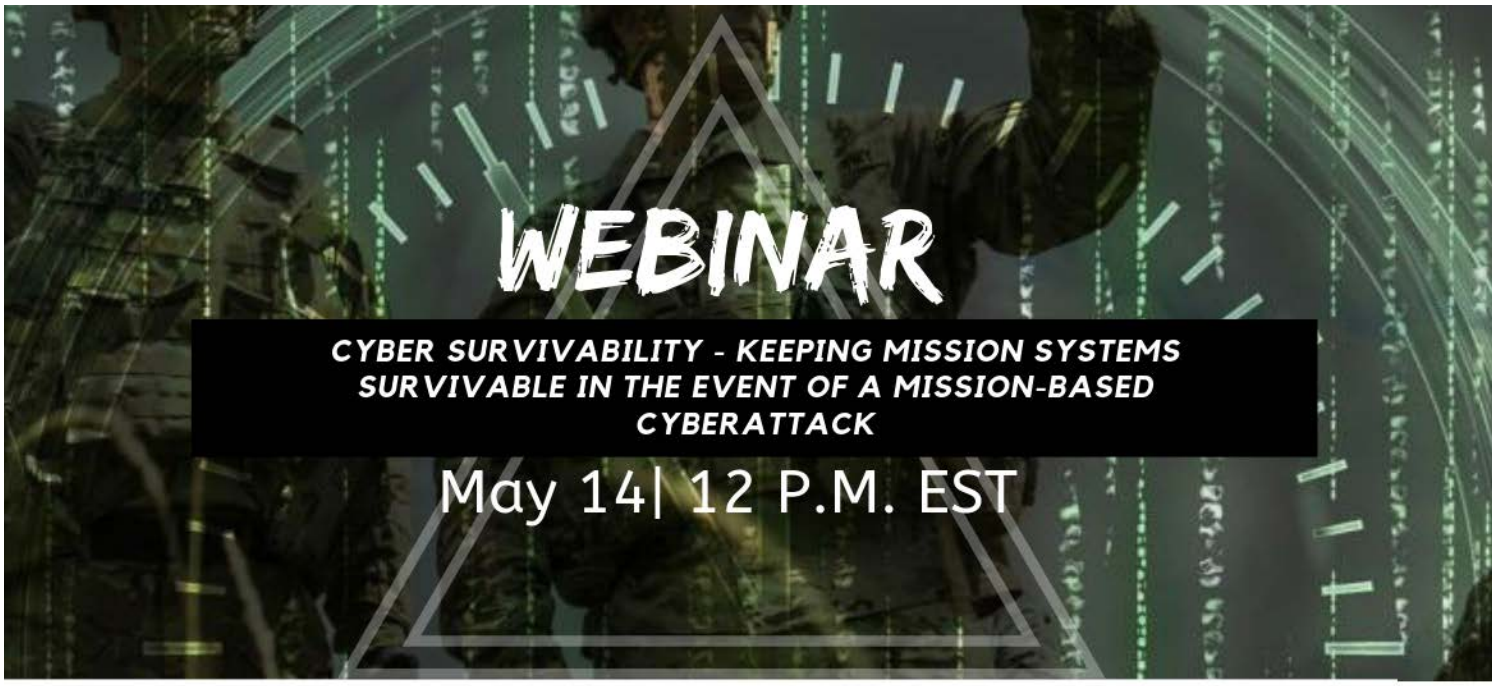
DOD Recognizes Importance of Environment to Readiness

SURVIVABILITY AND VULNERABILITY

The Army's New Body Armor and Combat Helmet Are Here. Here's Who Will Get Them First

WEAPON SYSTEMS

The Army's New Machine Gun Can Really Do Some Serious Damage



Hosted by: DSIAC CSIAC

Webinar rescheduled for May 14, 2019 at 12 p.m. EST.

Join DSIAC and the Cyber Security & Information Systems Information Analysis Center (CSIAC) as we collaborate to host a live webinar presentation on "Cyber Survivability – Keeping Mission Systems Survivable in the Event of a Mission-Based Cyberattack." This joint effort is aimed to start a dialogue around cyber survivability, detectability, susceptibility, vulnerability, and recoverability.

Defense Systems Information Analysis Center
4695 Millennium Drive, Belcamp, MD 21017
Phone: 443-360-4600