

Defense Systems

DIGEST

9 APRIL 2019 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



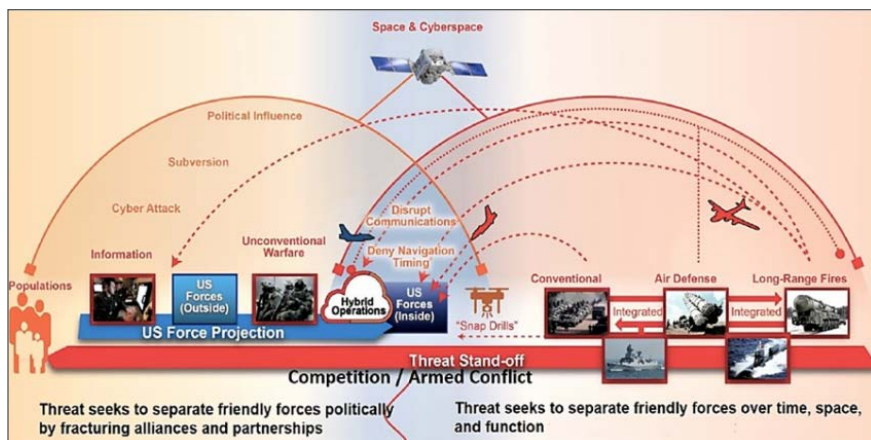
NOTABLE TECHNICAL INQUIRY

How can historical “lessons learned” from nuclear acquisition and certification efforts help mitigate new program acquisition pitfalls and avoid cost/time overrun?

DSIAC staff contacted multiple government historical research agencies and nuclear departments to assist in collecting information on the subject. Related areas of interest included dual-capable aircraft, intercontinental ballistic missiles (ICBMs), and the airborne... [Read More](#)

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

FEATURED NEWS



Army's Multi-Domain Unit "A Game-Changer" in Future War

The Army's experimental Multi-Domain Task Force is a "game-changer" that's turned the tide in "at least 10 wargames," the commander of U.S. Army Pacific says. "Plans are already changing at the combatant command level because of this." The key: the unit cracked the Anti-Access, Area Denial (A2/AD) conundrum, Russia and China's dense layered defenses of long-range missiles, sensors, and networks to coordinate them. "Before, we couldn't penetrate... [Read More](#)

MODEL OF THE MONTH

FLAME – Flare Aerodynamic Modeling Environment (FLAME) is a user-friendly software tool that allows users to specify an aircraft, configure the location and orientation of its expendable decoy dispensers, and define flare patterns for dispense.

[Get this model!](#)



VOICE FROM THE COMMUNITY



Jesse Angle, Ph.D., Scientist, Naval Surface Warfare Center, Panama City Division

I work at the Naval Surface Warfare Center, Panama City Division (NSWC PCD). A large percentage of NSWC PCD's work is focused on the development of sensors and unmanned vehicles to support mine countermeasures in the littorals. My team leverages advanced sensors toward alternative applications. Some of the best work that I do is surveying for unexploded ordnance and traveling to interesting locales using new sensors to visualize the seafloor in novel ways. I pull it all together in a way that makes sense to a layperson, adds value to the Unexploded Ordnance (UXO) community, and ultimately benefits the Warfighter by accelerating development of various advanced underwater sensors.

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

UPCOMING EVENTS

Enhanced Surface-to-Air Missile Simulation (ESAMS) Training

9 April 2019 to 11 April 2019

SOFWERX Collider Event

9 April 2019 to 11 April 2019

DHS S&T Escape Respirator Challenge

11 April 2019

SPIE Defense + Commercial Sensing

14 April 2019 to 18 April 2019

► Want your event listed here? Let us know!

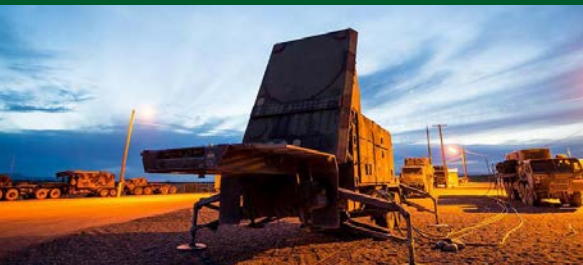
BULLETIN BOARD

“Introduction to BRAWLER” Training Course

A Short Course on Live Fire Testing and Evaluation

► Add your item to our board by contacting us.

DSIAC JOURNAL WINTER 2019



Active Electronically Steered Array (AESA) Antenna Testing

Also in This Issue:

- Measuring Combustion Products in Small Arms Blowback Gases
- Modular Human Surrogate for Non-Lethal Weapons (NLW) Testing
- Sustainable Mobile Electrical Infrastructure
- American “Astrologistics”



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

RECENT NEWS



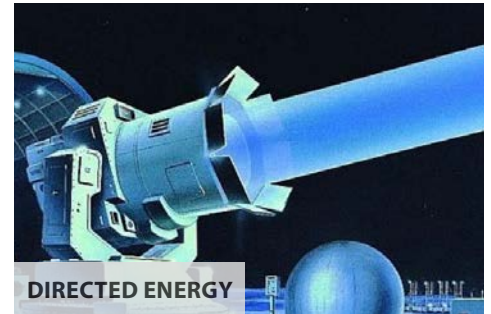
ADVANCED MATERIALS

Design Treatment of Advanced Metals Producing Better Sculpting for Defense, Vehicles, and Health Products



AUTONOMOUS SYSTEMS

DARPA Successfully Tests UAV Swarming Technologies



DIRECTED ENERGY

Military Eyes Prototype Megawatt-Class Laser Weapon for Missile Defense



ENERGETICS

Rocket Lab Launches DARPA Research Satellite



MILITARY SENSING

The Army Targets Systems to "See" 1,000 Miles



NON-LETHAL WEAPONS

Marines' Anti-Drone Defense System Moving Toward Testing, Fielding Decision by End of Year



RMQSI

DoD Is Rethinking What Defines a Major Aviation Accident



SURVIVABILITY AND VULNERABILITY

New Color-Changing Materials Discovered for Chemical Threat Detection



WEAPON SYSTEMS

Army Debuts Missile Defense Framework in Move to Counter Drones, Hypersonic Threats

CYBER SURVIVABILITY – KEEPING MISSION SYSTEMS SURVIVABLE IN THE EVENT OF A MISSION-BASED CYBERATTACK



Join us for a live webinar presentation on “Cyber Survivability – Keeping Mission Systems Survivable in the Event of a Mission-Based Cyberattack.”

30 April 2019 – 12:00 p.m. to 12:45 p.m. EST

In the military environment, survivability is defined as the ability to remain mission-capable after a single engagement. In this seminar, we extend the traditional definition of survivability to introduce the concept of cyber survivability as a means to defend mission systems against cyberattacks. Our aim is to start a dialogue around cyber survivability, detectability, susceptibility, vulnerability, and recoverability. [Read More](#)

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