Defense Systems

26 FEBRUARY 2019 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



NOTABLE TECHNICAL INQUIRY

What unattended ground sensors are currently available?

DSIAC subject matter experts (SMEs) surveyed open and other sources to compile a listing of unattended ground sensor (UGS) original equipment manufacturers (OEMs), their UGS products, and UGS characteristics such as sensor type, threat detection capabilities, communications capabilities, operational time, size... Read More

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FEATURED NEWS



Summary of the 2018 Department of Defense Artificial Intelligence Strategy

The U.S. Department of Defense (DoD) protects our nation by deterring war and winning the nation's wars when deterrence fails. In fulfilling this mission, we have always been at the forefront of technological advances to ensure an enduring competitive military advantage against those who threaten our security and safety. Artificial intelligence (AI) is one such technological advance. AI refers to the ability of machines to perform tasks that normally require human intelligence — for example, recognizing patterns, learning from experience, drawing... **Read More**

MODEL OF THE MONTH

DREAM – DREAM simulates the interaction between a High-Power Radio Frequency/Microwave Directed Energy Weapon (HPM DEW) and a target system. The interface calculates/estimates a target's probability of electronic upset and/or damage as a function of the HPM DEW power density on target and range. DREAM is primarily used for making pre-test predictions and investigating the HPM DEW concepts.

Get this model!





VOICE FROM THE COMMUNITY

Jesse Frantz, Physicist, U.S. Naval Research Laboratory's Optical Science Division

I am a physicist with over 15 years of experience in optical materials and thin films within the U.S. Naval Research Laboratory's Optical Science Division. I am currently the Head of the Specialty Waveguide Section where we carry

out research on novel waveguide materials and structures. We work with a variety of material systems, specializing in those with transparency in the mid-infrared and those that are not being developed outside of the DoD. Currently, I am working on a novel, chip-based, non-mechanical, beam steering technology that aims to replace gimbals with a lighter, more compact solution.

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

UPCOMING EVENTS

Military Sensing Symposium (MSS) 2019 Parallel Conference

25 February 2019 to 28 February 2019

Amazing Grace – Defense Innovation Event

26 February 2019 to 27 February 2019

Additive Manufacturing (AM) for Aerospace and Space

26 February 2019 to 28 February 2019

2019 Air Warfare Symposium

27 February 2019 to 1 March 2019

Want your event listed here? Let us know!

BULLETIN BOARD

AJEM Version 2.56 Now Available

Do You Have a Nominee for the 2020 AIAA Survivability Award?

No More "Playing Defense" for U.S. Navy; Offensive Weapons Are the Play

Add your item to our board by contacting us.

DSIAC JOURNAL WINTER 2019



Measuring Combustion Products in Small Arms Blowback Gases

Also in This Issue:

- American "Astrologistics"
- Modular Human Surrogate for Non-Lethal Weapons (NLW) Testing
- Sustainable Mobile Electrical Infrastructure
- Active Electronically Steered Array (AESA) Antenna Testing



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

RECENT NEWS



Advanced Materials Are Shaping the Future of Polymer-Based Additive Manufacturing



It's a Cat and Mouse Game as Militaries Fight the Big Threat of Small Drones



Air Force Looking for Research on Bioeffects of Directed-Energy Applications



Pentagon Needs to Start an "Energetics Renaissance"



Air Force Approaching Industry for Adaptive Optics Technologies in Ground-Based Space Situational Awareness



USMC Wants Truck-Mounted Plasma Weapon to Temporarily Blind, Deafen, and Even Yell at People



A Vicious Cycle: The U.S. Military's Maintenance and Modernization Problem

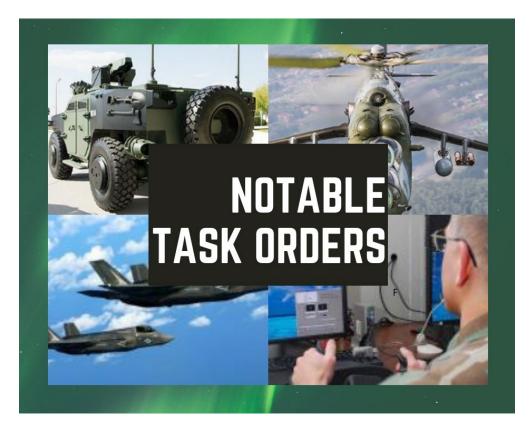


Ground Troops to Receive Lighter, Tougher Body Armor



Meet the Falcon, a New Short-Range Air Defense System

NOTABLE TASK ORDERS



Notable Task Orders are summaries of the most recent and impactful work done by DSIAC through externally-funded Task Orders.
These externally-funded Task Orders are established in support of government customers who want to leverage DSIAC expertise for specific scientific or technical research and analysis efforts that exceed the DSIAC Basic Center of Operation's (BCO) free services (such as technical inquiries).

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