Defense Systems DIGEST

2 JUNE 2020 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER

NOTABLE TECHNICAL INQUIRY

What digital models are available for radio frequency countermeasure (RFCM) analysis modeling and simulation (M&S)?

DSIAC was tasked with compiling a list of electronic warfare digital models for M&S with capabilities comparable to the Enhanced Surface-to-Air Missile Simulation. Specific capabilities desired included the ability to perform RFCM analysis and pulse-to-pulse simulation and add electronic protection. DSIAC analysts identified a number of relevant models managed by... Read More

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

FEATURED NEWS

After a Year of Successes, U.S. Air Force Continues to Advance S&T Strategy

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – In the spring of 2019, the Air Force released the Air Force Science and Technology (S&T) Strategy to secure continued technological advantage over rapidly-developing state competitors in 2030 and beyond through future technology research and converting new technologies into transformational warfighting concepts. Over the course of the past year, the Air Force has made big strides in implementing key parts of the strategy.

"The steps we are taking are motivated by the strategy's vision of an Air Force that dominates time, space, and complexity in all operating domains in order to meet the needs of warfighters today and provide unrivaled, advanced... **Read More**

VOICE FROM THE COMMUNITY

Stephen DeVito, *Research Staff Member, Institute for Defense Analyses, Northrop Grumman – Aerospace Systems*

I am a research staff member at the Institute for Defense Analyses, Operational Evaluation Division, where we assist the Office of the Secretary of Defense, Director, Operational Test and Evaluation. We support the U.S. Department of Defense's operational and live fire testing and evaluation of major weapon systems and platforms. Through in-person observation and rigorous technical analysis, we help design realistic operational tests of military systems and deliver objective evaluations.

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

UPCOMING POSTPONED EVENTS

Joint Navigation Conference

1 June 2020 to 4 June 2020

TechNetCyber

2 June 2020 to 4 June 2020

National Cyber Summit (NCS) 2020

2 June 2020 to 4 June 2020

Quality Expo

9 June 2020 to 11 June 2020

Want your event listed here? Let us know!

HIGHLIGHT

DSIAC Success Story: Enhancing Speed to Capabilities

DSIAC assessed the DoD Defense Enterprise Science Initiative (DESI) Broad Agency Announcement (BAA) pilot program's effectiveness to facilitate cross-sector research between university-industry teams to accelerate the impact of basic research on key defense capability gaps. **Read More**

DSIAC JOURNAL SPRING 2020

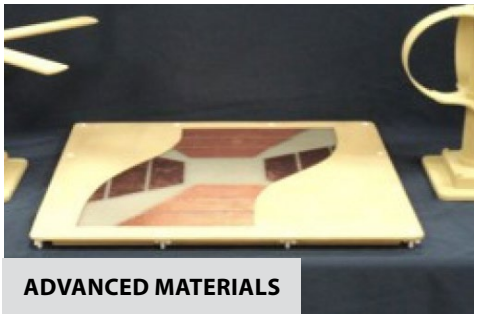
A Computational Approach to Understanding Advanced Thermal Barrier Coatings' Performance

Also in This Issue:

- Composite Overwrapped Pipe Burst Test
- Inorganic Optical Components Using Additive Manufacturing
- Can Compressive Sensing Solve Your Sensor and Measurement Problems?
- Additive Manufacturing High-Performance Polymers for Space and Aerospace
- The Importance of Early Prototyping in Defense Research, Engineering, Acquisition, and Sustainment

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

RECENT NEWS



ADVANCED MATERIALS

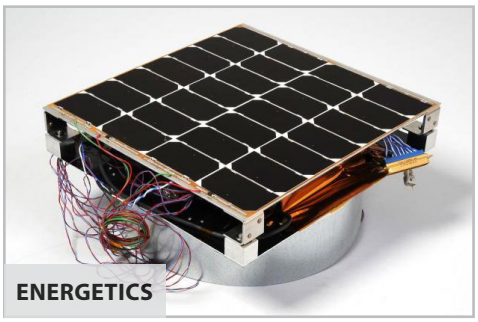
Army ManTech Program Advances Materials for New Low-Profile Antenna

AUTONOMOUS SYSTEMS

U.S. Army Successfully Launches Spy Drone From Black Hawk

DIRECTED ENERGY

Penn Engineers Develop First Tunable, Chip-Based "Vortex Microlaser" and Detector, Encode Information in Twisting Beams of Light



ENERGETICS

NRL Conducts First Test of Solar Power Satellite Hardware in Orbit

MILITARY SENSING

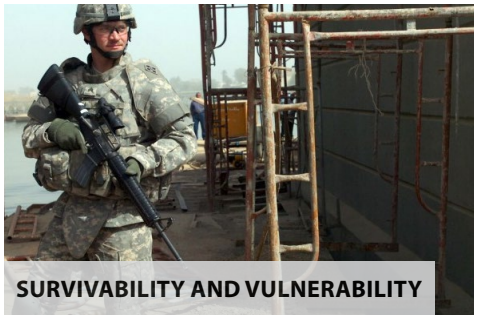
Army Researchers Develop Innovative Sensor Inspired by Elephants

NON-LETHAL WEAPONS

Electroshock Bullets Challenge TASER Dominance

RMQSI

Wichita State Will Take Apart an Army Black Hawk Helicopter to 3-D Print New Parts



SURVIVABILITY AND VULNERABILITY

Nanoscale Experiments Give Researchers Optimism for Stronger, Lighter Soldier Armor

WEAPON SYSTEMS

AFRL Achieves Record-Setting Hypersonic Ground Test Milestone

2020 Spring Issue of the DSIAC Journal

DSIAC is pleased to announce the release of the 2020 Spring Issue of the DSIAC Journal. The Journal is viewable and available for electronic download **here.**

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