

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // August 3, 2021



SUBMIT A TECHNICAL INQUIRY

DSIAC

## NOTABLE TECHNICAL INQUIRY

### What information is available on the Fusion-Oriented C4ISR Utility Simulation (FOCUS) model?

The Defense Systems Information Analysis Center (DSIAC) was asked for updated information on the FOCUS model, which stemmed from the Fall 2015 DSIAC Journal article "Modeling Intelligence Ped With FOCUS: A Tactical-Level ISR Simulation."

DSIAC contacted the developers of the software at the U.S. Army Combat Capabilities Development Command's Data & Analysis Center, formerly the U.S. Army Materiel Systems Analysis Activity, for updated information on the software and points of contact for further discussions. [READ MORE](#)



## SNEAK PEEK

### UPCOMING WEBINAR

*Materials and Applications for Electromagnetic Interference Shielding*

#### DATE:

August 26, 2021

#### TIME:

12:00 PM - 12:45 PM

#### PRESENTED BY:

Doyle T. Motes III, P.E.  
U.S. Army Engineer Research and Development Center

#### HOST:

DSIAC



## VOICE FROM THE COMMUNITY

### Dr. Kenneth Block

*Engineering Fellow, Chief Architect  
Raytheon Technologies Corp.*

I am an engineering fellow at Raytheon Technologies Corp. and currently the chief architect on RTX's D-VERT research effort focusing on navigational solutions. I've held roles as co-lead architect on the Space Fence and Cobra Judy Replacement programs, which focused on distributed systems, data distribution, synchronization and control, and web services/net-centricity. In 2018, I was awarded Best Paper at ACM's WiSec conference held in Stockholm, Sweden, for my research on position leakage covert channels using magnetic field signaling. I am an RTN-certified architect and hold an MSEE and BES in bio/medical engineering.

**BECOME A SUBJECT  
MATTER EXPERT**



U.S. Army SBIR

## HIGHLIGHT

### Army Seeks Small Businesses Innovation for Aviation Systems

The U.S. Army is looking for the most innovative solutions from small businesses in wind measurement systems, which have the potential to change the future of Army aviation weapon systems.

The Army Applied Small Business Innovation Research (SBIR) Program released a Direct to Phase II contract opportunity for U.S.-based small businesses to provide high-tech solutions for "Holistic Wind Correction for Aviation Targeting," an urgent Army priority. This Direct to Phase II award is up to \$1.7M and 18 months in duration and available to small businesses that have completed the proof-of-concept stage—meaning they can skip the Phase I and start Phase II with Army SBIR funding. [LEARN MORE](#)

## FEATURED NEWS

### Aboard Commercial Rocket, Space Defense Agency Sends up Satellites for First Time

The Falcon 9 mission will include five SDA satellites. These include a pair of "Mandrake II" satellites; two "Laser Interconnect Networking Communications System," or LINCS, satellites; and a satellite carrying the SDA's Prototype On-orbit Experimental Testbed, or POET, experiment. [READ MORE](#)



Image: NASA



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## WEBINARS

### Materials and Applications for Electromagnetic Interference Shielding

*Presented:* August 26, 2021 12:00 PM - 12:45 PM

*Presenter:* Doyle T. Motes III, P.E.

*Host:* DSIAC

The United States' ability to deploy weapon systems with embedded electronics is a key capability for the Warfighter. Protecting embedded electronics against electromagnetic interference (EMI) from both natural and artificial sources is a critical requirement. This webinar explores the options available to contain and protect electronics from EMI from a materials development and materials engineering perspective. The webinar will begin with a background on EMI, then provide examples of military applications, describe recent research into materials and engineering, finally discuss markets and the weaknesses in existing supply chains.



### Interdisciplinary Hypersonics Research in U.S. Academia

September 15, 2021 12:00 PM



### Survivability Against High-Power, Radio Frequency/Microwave, Directed Energy Weapons

October 20, 2021 12:00 PM

## EVENTS

### DoD Industry Day for SDR Waveform Development

August 3, 2021

### Military Standard 810 (MIL-STD-810) Testing (Santa Clarita, CA)

August 16, 2021

### 2021 Joint Combat Assessment Team (JCAT) Threat Weapons & Effects (TWE) Training

August 17, 2021

### Military Standard 810 (MIL-STD-810) Testing (Boxborough, MA)

August 23, 2021

### 36<sup>th</sup> Space Symposium

August 23, 2021

### Military Sensing Symposia (MSS) Parallel Meeting

August 30, 2021










### 2021 JASP Model Users On-site Meeting (JMUM)

August 31, 2021

### Want your event listed here?

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



-  Advanced Materials
-  Autonomous Systems
-  C4ISR
-  Directed Energy
-  Energetics
-  Military Sensing
-  Non-Lethal Weapons
-  RMQSI
-  Survivability & Vulnerability
-  Weapons Systems

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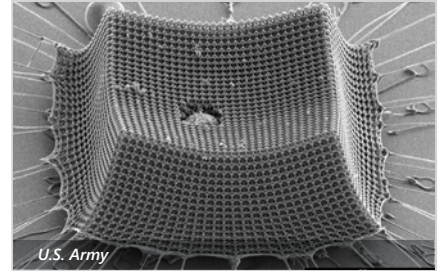
## RECENT NEWS



U.S. Army

**Army Researchers Examine Solutions for Improving Aircraft Engines**

Autonomous Systems & RMQSI



U.S. Army

**New Material Could Mean Lightweight Armor, Protective Coatings**

Advanced Materials and Survivability & Vulnerability



DVIDS

**Bird's-Eye View Could Be Key to Navigating Without GPS**

Autonomous Systems & C4ISR



U.S. Air Force

**Air Force Declares Mobile Communications System "Combat Ready"**

C4ISR



U.S. Army

**Army Invests in Next Generation Materials Research**

Advanced Materials



U.S. DoD

**Air Force Directed Energy Report Argues Defensive Force Fields May Be "Just on the Horizon"**

Directed Energy

