

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // August 24, 2021



[SUBMIT A TECHNICAL INQUIRY](#)

U.S. Army

NOTABLE TECHNICAL INQUIRY

What research or programs exist regarding alternative position navigation and timing (APNT)?

The Defense Systems Information Analysis Center (DSIAC) was asked to identify research and programs regarding APNT. The U.S. Armed Forces have relied on Global Positioning System (GPS) for precision navigation from foot mobile infantry to high-end precision weapons. APNT is defined as the ability to provide operational Navy forces continuous access to position, velocity, attitude, and time information with confirmed integrity and sufficient accuracy to perform their mission under the complete range of threat conditions. [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



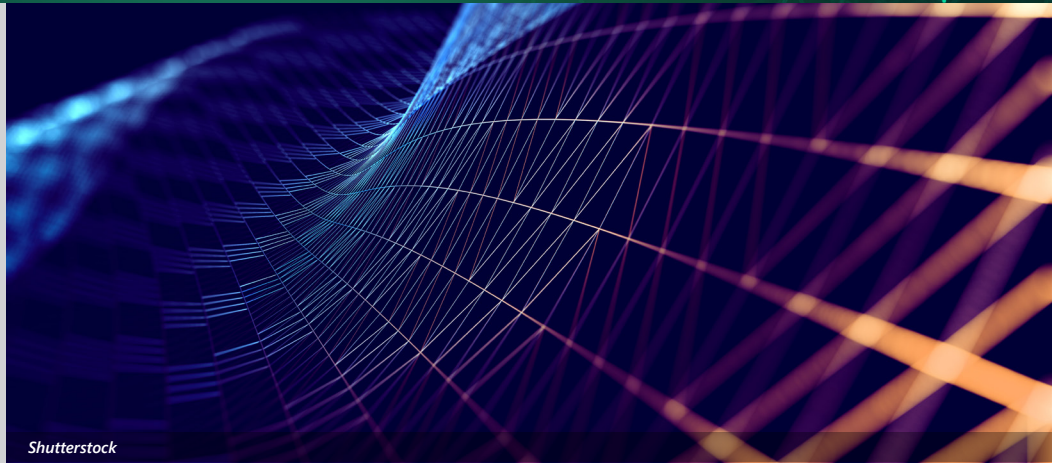
VOICE FROM THE COMMUNITY

James R. Purkiss

Computer Scientist, NAWCWD

I have worked at China Lake for the U.S. Naval Warfare Center Weapons Division (NAWCWD) for five years as a computer scientist. Most of my work has revolved around modeling and simulation, with some analysis in lethality. I have worked with the System of Systems Test Environment group as a developer, focusing on the Advanced Framework for Simulation, Integration, and Modeling and the Test and Training Enabling Architecture framework. My latest role is the model manager for the Maritime Lethality Toolset (MLAT). MLAT is working toward providing an on-the-fly lethality data generation and analysis tool of maritime targets.

**BECOME A SUBJECT
MATTER EXPERT**



HIGHLIGHT

The U.S. Army xTech Program | xTechSearch 6

The U.S. Army xTech Program launched the next iteration of its most popular competition, xTechSearch 6, and is now accepting submissions through September 2, 2021. The competition will be looking to award up to 10 Phase I SBIR's of up to \$250K each for the small businesses that are selected for the final round!

xTechSearch is an open topic competition sponsored by the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)), targeting small businesses to uncover transformative technology solutions to help solve the Army's most critical modernization challenges. The Army has released a list of the most critical technology focus areas within their research and technology portfolio. [LEARN MORE](#)

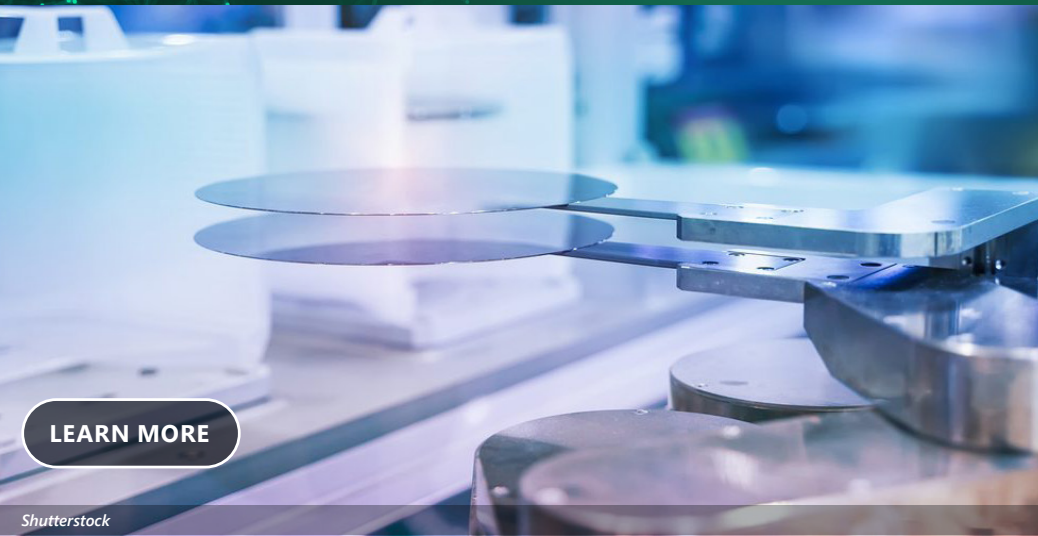
FEATURED NEWS

General Says Sensors Pinpointing Missile Threats Worldwide Are Critical Capability

"I would like to have overhead sensors that see everything, characterize everything that goes on on this planet, from a missile perspective, all the time, everywhere. That's the one capability I would like to have because you have to be able to see it to do anything about it. [READ MORE](#)



Image: U.S. Department of Defense



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WEBINARS

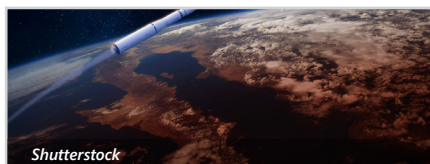
Materials and Applications for Electromagnetic Interference Shielding

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. It will begin with a background on EMI, then provide examples of military applications, describe recent research into materials and engineering, and discuss markets and the weaknesses in existing supply chains. [LEARN MORE](#)



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

Military Sensing Symposia (MSS) Parallel Meeting

August 30, 2021

2021 JASP Model Users On-site Meeting (JMUM)

August 31, 2021

2021 Sensors & Processing, Advanced Electronics, and Materials & Manufacturing Processes (M&MP) IR&D TIM

September 13, 2021

Aircraft Combat Survivability Short Course 2021

September 21, 2021

International Armored Vehicles USA Conference

September 29, 2021

2021 Fleet Maintenance & Modernization Symposium (FMMS)











October 17, 2021

2021 Future Force Capabilities Conference and Exhibition

October 18, 2021

Want your event listed here?

Email 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

DOD, Israel Host Indoor Autonomous Maneuver Technologies Challenge

Advanced Materials



DVIDS

NRL Demonstrating Advanced Distributed Radar Concepts With FlexDAR

Military Sensing



U.S. Army

New Research Facility Speeds Changes to Army Helicopters

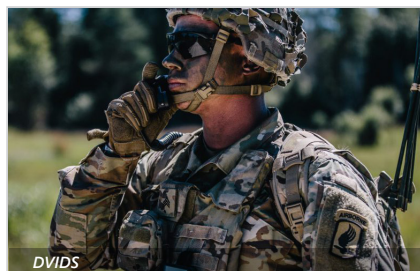
Energetics & RMQSI



Shutterstock

Leaping Squirrels Could Help Scientists Develop More Agile Robots

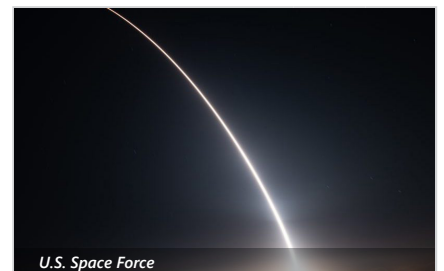
Autonomous Systems



DVIDS

New Headset Protects Hearing, Enhances Voice Communication in Combat Zones

C4ISR



U.S. Space Force

Minuteman III Test Launch Showcases Readiness as Safe, Effective Deterrent

Autonomous Systems & RMQSI

