

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // November 16, 2021



[SUBMIT A TECHNICAL INQUIRY](#)

NOTABLE TECHNICAL INQUIRY

Who are the key players in U.S. Department of Defense (DoD) research efforts in long-range acoustic communications, and what are they doing?

The Defense Systems Information Analysis Center (DSIAC) was asked to identify key players in U.S. Department of Defense research efforts in long-range (500–1,000 m) acoustic messaging. DSIAC searched open-source documents and the Defense Technical Information Center's repository for relevant information, which was compiled into a report and delivered to the inquirer. Key players were organized by government, academia, and industry, followed by a summary of the research being done by each... [READ MORE](#)



SNEAK PEEK

UPCOMING WEBINAR:
*An Overview of the Effectiveness
ToolBox (ETB)*

DATE:
December 8, 2021

TIME:
12:00 PM - 12:45 PM

PRESENTED BY:
Bryan Knott

HOST:
DSIAC



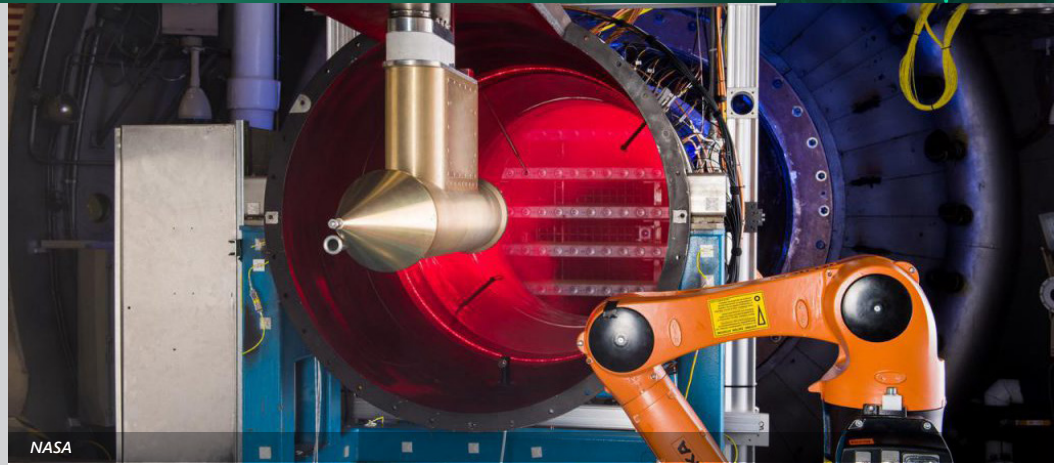
VOICE FROM THE COMMUNITY

Santo Polizzi

CPP Chief, Counter-MANPADS Program TSA/DHS

As the chief of the TSA Counter-MANPADS Program (CMP), Mr. Polizzi is responsible for C-MANPADS outreach, training, and assessments for all domestic, commercial airports and international airports with flights to the United States. The CMP conducts MANPADS vulnerability assessments, basic training programs, and law enforcement MANPADS recognition training using a proven and worldwide-recognized assessment methodology. The program also deploys C-MANPADS assessment software “Counter-Terrorism and Search Position Ranking and Analysis System” (CTS-PRAS) to all major airports and develops training programs to assist foreign governments in mitigating MANPADS threats.

BECOME A SUBJECT MATTER EXPERT



HIGHLIGHT

Joint Army-Navy-NASA-Air Force (JANNAF) December Subcommittee Meeting

The Joint Army-Navy-NASA-Air Force (JANNAF) Meeting will be held virtually as subcommittee meetings that are spread from Monday through Friday, December 6-10, and Monday through Thursday, December 13-16.

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FEATURED NEWS

DoD Focused on Readiness Instead of Intent Behind Chinese Military Exercises

Media reports have called attention to mock-ups of U.S. aircraft carriers the Chinese have built in the desert, presumably to train their own military for confrontation with the U.S. Navy.



But the Defense Department is, instead, focused on its own preparation and readiness and current Chinese behavior with neighbors in the Indo-Pacific region.

“What we’re concerned about ... is the increasing intimidation and coercive behavior of the Chinese military in the Indo-Pacific and also the coercive tactics they’re using, even using economic tools around the world to bend other nations to their will or to their view of what’s in... [READ MORE](#)

Image: U.S. Air Force



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WEBINARS

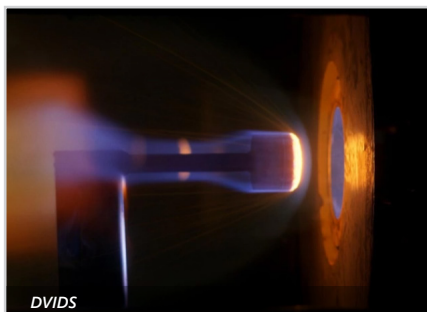
An Overview of the Effectiveness ToolBox (ETB)

Presented: December 8, 2021 12:00 PM - 12:45 PM

Presenter: Bryan Knott

Host: DSIAC

ETB is a weapon effectiveness model developed by the Lethality and Weapons Effectiveness Branch (H32) of the Naval Surface Warfare Center Dahlgren Division (NSWCDD). ETB is a time-based, Monte Carlo simulation in which objects move in a 3-D virtual world and interact using analytical, numerical, and empirical methodologies. ETB allows the user to model scenarios of varying complexity – from a simple target vulnerability analysis involving a single fragment interacting with a target to a highly complex effectiveness analysis involving multiple weapons and multiple targets. ETB uses a graphical toolkit to visualize the underlying calculations of the model. This visualization capability greatly simplifies the setup and understanding of the model results. The graphics toolkit is combined with various methodologies for modeling target vulnerability and weapons effectiveness. **LEARN MORE**



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Materials Selection for High-Temperature System; Condensed Phase Foundation

January 19, 2022
12:00-12:45 PM

EVENTS

Space Resiliency Summit

December 1-2, 2021

Joint Army-Navy-NASA-Air Force (JANNAF) December Subcommittee Meetings

December 6-16, 2021

Defense Manufacturing Conference (DMC)

December 13-16, 2021

The 68th Annual Reliability and Maintainability Symposium

January 24-27, 2022

Transformative Vertical Flight










January 25-27, 2022

2022 Personnel Recovery (PR) Modernization

February 7-11, 2022

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. Air Force

AFRL Partners With UNM for New Directed Energy Center

Directed Energy



DARPA

DARPA, NGA Transition Novel Optics Technology to Fieldable Prototypes

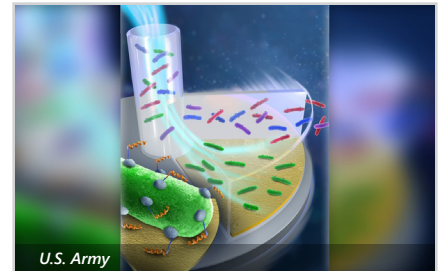
C4ISR & Military Sensing



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AI Behind Deepfakes May Power Materials Design Innovations, Scientists Say

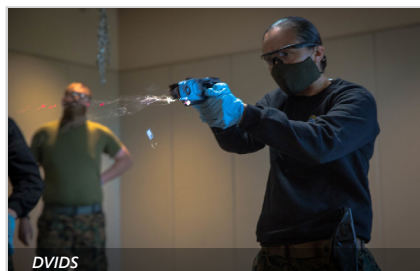
Advanced Materials & Autonomous Systems



U.S. Army

Army Research Examines New Biomaterials to Enhance Electronics

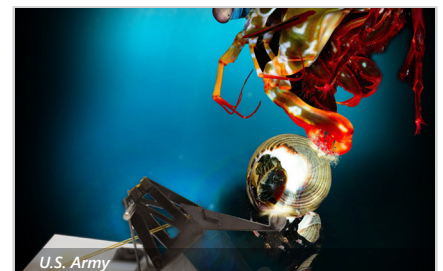
Advanced Materials



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Marine Bangs Drum for Investing in Non-Lethal Weapons

Non-Lethal Weapons



U.S. Army

Small, Mighty Robots Mimic the Powerful Punch of Mantis Shrimp

Autonomous Systems

