Artificial intelligence (AI) holds substantial promise for improving human life and economic competitiveness in a variety of ways and for helping solve some of society’s most pressing challenges. At the same time, according to experts, AI poses new risks and could displace workers and widen socioeconomic inequality. To gain a better understanding of the emerging opportunities, challenges, and implications resulting from developments in AI, the Comptroller General of the United States convened the Forum on Artificial Intelligence, which was held on July 6 and 7, 2017, in Washington, D.C. Read More

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**NOTABLE TECHNICAL INQUIRY**

*What are the proper test methods to develop relative effectiveness factors for explosives?*

DSIAC was tasked with researching and determining the testing methods to develop relative effectiveness factors for various explosives to support a modeling effort. DSIAC contacted authors of the technical manual that lists effectiveness factors of military-grade explosives, who then recommended laboratories within the Army Corps of Engineers Research and Development Center (ERDC). DSIAC then facilitated the introduction between the inquirer and the laboratory branch chiefs who conduct explosive characterization testing. Read More

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**FEATURED NEWS**

**GAO Technology Assessment: Artificial Intelligence – Emerging Opportunities, Challenges, and Implications**

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**MODEL OF THE MONTH**

**BRAWLER** – BRAWLER simulates air-to-air combat between multiple flights of aircraft in both the visual and beyond-visual-range (BVR) arenas. This simulation of flight-vs.-flight air combat is considered to render realistic behaviors for military trained fighter pilots. Read More
VOICE FROM THE COMMUNITY

Dr. Albert A. DeFusco Defense Systems Information Analysis Center, Subject Matter Expert, Energetics

My interests lie in the area of energetic materials and formulations, especially those related to less sensitive energetics. My early career at the Naval Weapons Center, China Lake, focused on the synthesis of insensitive high explosives (IHEs) and energetic polymers. Shortly thereafter, my research at Hercules Incorporated (now Orbital ATK), focused on the development of less sensitive rocket propellant formulations directed toward Insensitive Munitions (IM). Over the years, our work has been credited with development of rocket propellants that provide good energy-sensitivity balances for tactical munitions like Javelin, TOW 2 and HELLFIRE. My current interests continue to lie in the area of IM, with the goal of advocating and advancing further development of less sensitive formulations through interaction with the energetics community, and providing information analysis through DSIAC.

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UPCOMING EVENTS

USF Air Force Science and Technology 2030 Workshop
April 26, 2018

2018 Armament Systems Forum
May 7, 2018 to May 10, 2018

2018 AIAA Defense Forum
May 8, 2018 to May 10, 2018

2018 AIAA: Aerospace Survivability Short Course
May 10, 2018 to May 11, 2018

Want your event listed here? Let us know!

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DARPA Launch Challenge (DLC)

State-of-the-Art Report: Qualifying Additive Manufacturing Parts

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DSIAC JOURNAL WINTER 2018

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- Underbody Blast Methodology: A Modular Approach to Simulating Buried Blast Effects
- Expanding the Navy's Unmanned Systems Portfolio: An Update

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**Touchy Nanotubes Work Better When Clean**

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**Marines Release Specifications for New Mega-Drone**

**Army Scientists Devise New Way to Make Night Vision Cheaper, Better**

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**New Corrosion Evaluation System Makes “Sense” for Air Force**

**Ultrafine Fibers Have Exceptional Strength**

**Warships Set to Make Waves With Powerful Lasers**
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<th>Title</th>
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<td>Fiber-reinforced Metal Matrix Composites for High-pressure Turbines</td>
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<td>In-process Data Point Clouds: A Novel Approach for Machining Data Visualization for Process Monitoring, Diagnosis, and Control</td>
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<td>Integrated Design &amp; Manufacturing Models with Metrology</td>
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