

Defense Systems

DIGEST

5 NOVEMBER 2019 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



Solid State Drive

NOTABLE TECHNICAL INQUIRY

What technologies can autonomously assess the health of SSD and predict potential failures?

DSIAC staff reviewed DTIC and open-source information related to self-monitoring, analysis, and reporting technology (S.M.A.R.T. or SMART) embedded in modern computer storage media devices and their control electronics. Additionally, SSD reliability information and software utilities provided by the drive's original equipment manufacturers... [Read More](#)

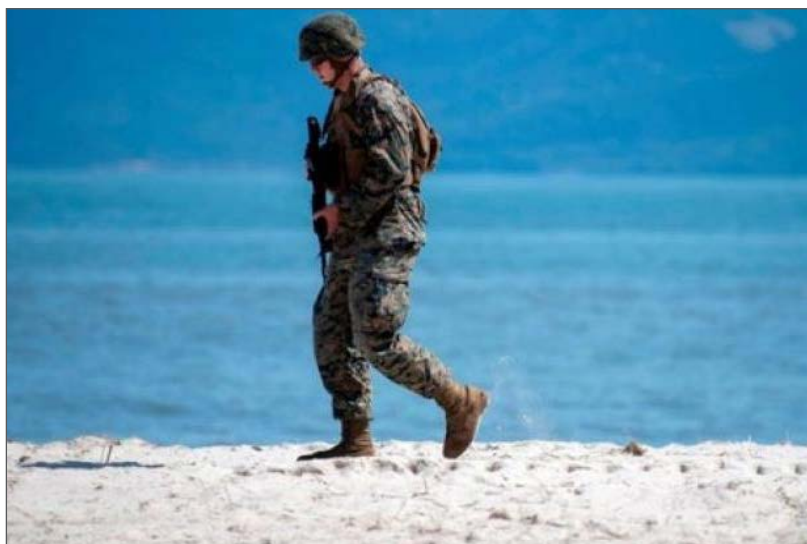
► **SUBMIT YOUR TECHNICAL INQUIRY – 4 hours of research service for FREE**

FEATURED NEWS

For the Marines, a New Commandant Sees a New Corps, in a New Era of Warfare

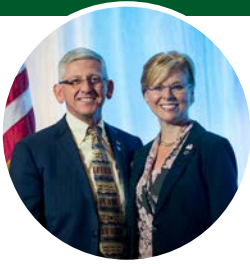
The Marine Corps' new commandant, Gen. David Berger, is breaking china, figuratively, to enable the Marines to break China, literally, should a conflict erupt in East Asia.

As the only service whose forces are mandated by law — three divisions and three air wings — the Marines have relied on their traditional hold over Congress to cling to their classic approach to amphibious assault, which has gone unchanged since the 1951 landing at Inchon.



In reality, over the years, and especially during the Vietnam War and the two Gulf Wars, the Marines have functioned as a classic land force, hardly differing from the Army. Moreover, beginning in the 1980s, they prestocked equipment in Norway in order to confront the Soviets in their northern theater. The Marines continue to train in Norway; their most recent exercise in March called for joint cold-weather operations with Norwegian forces.

VOICE FROM THE COMMUNITY



Melinda and Steve Tourangeau, *President and Vice President, Cofounders, Warrior Support Solutions, LLC*

Melinda and Steve Tourangeau fill a critical need for exceptional expertise in electronic warfare (EW). Having both served in the U.S. Air Force (Steve as an aircraft operator and Melinda as an engineer and program manager), they worked on technologies relevant to EW and electromagnetic spectrum operations such as radar, electro-optics, lasers, communications, and geonavigation. Their abilities and skills made a great team — passionate about the Warfighter and eager to serve the U.S. Air Force.

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UPCOMING EVENTS

2019 Aircraft Survivability Symposium

5 November 2019 to 7 November 2019

2019 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR)

9 December 2019 to 11 December 2019

Transformative Vertical Flight 2020

21 January 2020 to 23 January 2020

2020 IEEE International Radar Conference (RADAR)

27 April 2020 to 1 May 2020

► Want your event listed here? Let us know!

HIGHLIGHT



2020 JASP Model Users Meeting

The 2020 Joint Aircraft Survivability Program (JASP) Model Users Meeting (JMUM) will take place 10–12 March 2020 at Georgia Tech Research Institute (GTRI) Conference Center, 250 14th Street NW, Atlanta, GA, 30318. The purpose of this recurring meeting is to provide model users, managers, stakeholders, and other interested individuals with information about the latest developments... [Read More](#)

DSIAC JOURNAL FALL 2019



Effects of Material Properties on ISR for Synthetic Aperture Radar

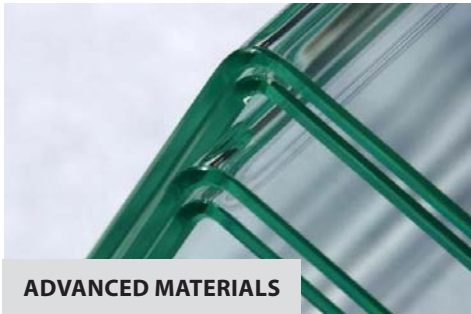
Also in This Issue:

- High-Strength, Corrosion-Resistant Steel Over Titanium Alloy for Aircraft Critical Components
- Vehicle Protection: Underpinning Advanced Armor Research and Impact on Survivability
- Zero-Bias Broadband Ultraviolet Photoconductor Based on Ultrananocrystalline Diamond Nanowire Arrays
- Change Detection in Satellite Imagery With Region Proposal Networks
- The Green Monopropellant: Developing and Flight Testing AF-M315E, a Hydrazine Replacement



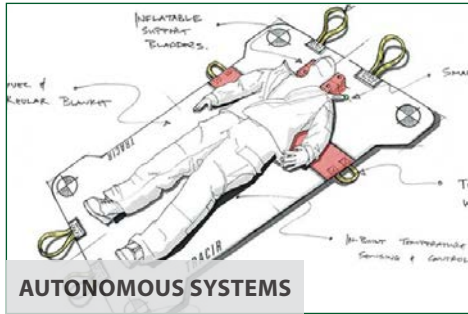
► Have an idea for a topic? Please contact us to write an article!

RECENT NEWS



ADVANCED MATERIALS

German Tech Bends Glass Sheets at Right Angles



AUTONOMOUS SYSTEMS

Army Developing Robotic Trauma Care System



DIRECTED ENERGY

Researchers Transmit Energy With Laser in "Historic" Power-Beaming Demonstration



ENERGETICS

Rocket Lab Aims for the Moon and Beyond With New Photon Satellite Platform



MILITARY SENSING

The Small Sat Solution to Hypersonic Weapons Explained



NON-LETHAL WEAPONS

WPD Unveils New Non-Lethal Tool to Stop Criminals



RMQSI

AUSA NEWS: Oshkosh Incorporates JLTV Upgrades Into Production



SURVIVABILITY AND VULNERABILITY

Swarm Hell: Can the U.S. Army Stop Hundreds of Drones Armed With Explosives?



WEAPON SYSTEMS

Will America's Next Long-Range, Air-to-Air Missile Match up to China's?

FALL ISSUE AVAILABLE ONLINE NOW



2019 Fall Issue of the DSIAC Journal

DSIAC is pleased to announce the release of the 2019 Fall Issue of the DSIAC Journal. The Journal will be available on DoDTechipedia via CAC logon at: <https://www.dodtechipedia.mil/dodwiki/display/DSIAC/DSIAC+Journals>

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