

Defense Systems

DIGEST

19 MAY 2020 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



NOTABLE TECHNICAL INQUIRY

What is the status of face masks utilizing copper mesh filtration systems?

DSIAC was asked about the development of tactical and surgical/medical reusable face masks that use Environmental Protection Agency (EPA)-approved copper mesh antimicrobial filters. DSIAC coordinated with the developer to obtain references on the effectiveness of the copper mesh, determine an estimate of production capability, and produce a white paper. DSIAC researched recent... [Read More](#)

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FEATURED NEWS

DoD Remains Flexible, Agile in Face of Coronavirus

The U.S. Department of Defense (DoD) will continue its work with the Federal Emergency Management Agency and the governors across the country to try to stay ahead of the pandemic, said Defense Secretary Dr. Mark T. Esper at a Pentagon news conference. Army Gen. Mark A. Milley, chairman of the Joint Chiefs of Staff, speaking alongside Esper, said the military has been flexible in changing its responses to the needs of the various communities. Some 62,000 Service members are supporting the fight against COVID-19, with more than 3,500 DoD healthcare professionals working on the front lines of some of the hardest-hit areas, Esper said, adding that he will continue to assess the situation and tailor the DoD's capabilities to what civilian agencies might need.



VOICE FROM THE COMMUNITY



David Francis, System Engineer, Reliability Availability and Maintainability (RAM), Lockheed Martin Aeronautics Company

I have held a variety of engineering and leadership positions on programs ranging from F-16, F-2, T-50, and F-35, as well as experience outside of Lockheed Martin in design, maintenance, and operations. Additionally, engineering, maintenance, and safety in flight operations were intertwined during my time with Mission Aviation Fellowship as a pilot and mechanic. I am currently working as a technical advisor in Sacheon, Republic of Korea, where I specialize in reliability, maintainability, diagnostics, condition-based maintenance, and reliability-centered maintenance analysis.

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UPCOMING POSTPONED EVENTS

Ronald Reagan Missile Defense Conference

18 May 2020 to 19 May 2020

2020 LANPAC Symposium & Exposition

19 May 2020 to 21 May 2020

5GXConnect Summit

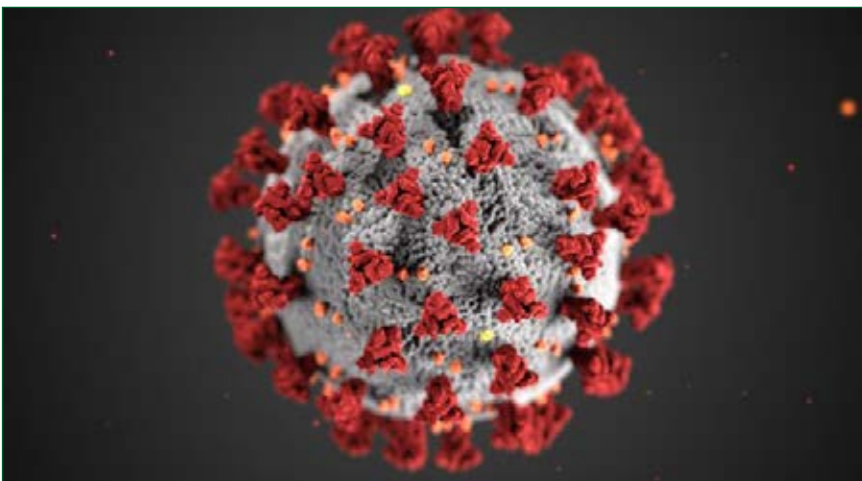
27 May 2020

Future Ground Combat Vehicles 2020

27 May 2020 to 29 May 2020

► Want your event listed here? Let us know!

HIGHLIGHT



Information Relevant to Coronavirus Research

DTIC's collections contain additional coronavirus and infectious disease information, available via DoDTechipedia. A DoD-issued CAC, PIV card, or ECA is required. [Read More](#)

DSIAC JOURNAL WINTER 2020



What Does Next-Generation, Passive RPG Protection Look Like?

Also in This Issue:

- Augmented Target Recognition Display Recommendations
- System Capabilities Analytic Process and Advanced Teaming Analyses
- The Synthetic and Measured Paired and Labeled Experiment (SAMPLE) Dataset for SAR ATR Development
- Flight Standards for UAS in the National Air Space
- Preventing Injuries Through Actionable Analysis



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

RECENT NEWS



ADVANCED MATERIALS

DoD Uses 3-D Printers to Ease COVID-19 Ventilator Shortage



AUTONOMOUS SYSTEMS

Here's the DARPA Project It Says Could Pull the Navy a Decade Forward in Unmanned Technology



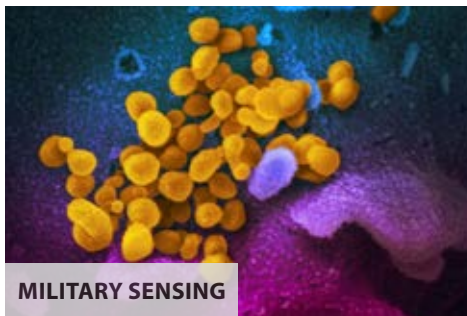
DIRECTED ENERGY

Surprise: Navy Submarines Could Soon Shoot Lasers From Beneath the Waves



ENERGETICS

UCF Researchers Develop Groundbreaking New Rocket-Propulsion System



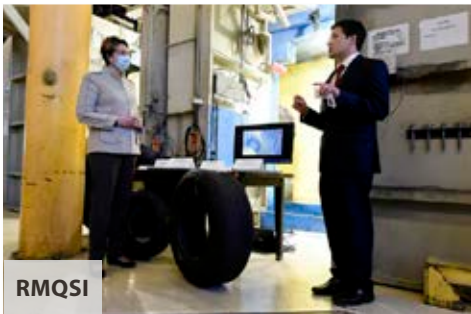
MILITARY SENSING

U.S. Army Plans to Develop Wearable COVID-19 Symptom Detector for Soldiers



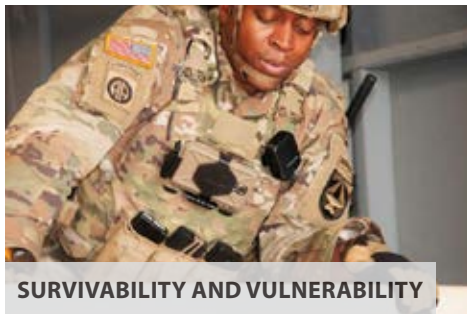
NON-LETHAL WEAPONS

Simulator to Train Police to Use Lethal and Non-Lethal Weapons



RMQSI

World-Unique Tire Testing Capability Saves Millions for Warfighters



SURVIVABILITY AND VULNERABILITY

In Modernization Push, Army Researches Integrated Power Cables for Soldiers



WEAPON SYSTEMS

U.S. Special Operations Command to Use Precision-Strike Surveillance Aircraft



Webinar: Magnetic Anomaly Navigation

Thursday 28 May 2020, 12:00 p.m. to 12:45 p.m. EST

An emerging navigation technique known as "Magnetic Anomaly Navigation" will be presented. The benefits of this system as a GPS-alternative navigation system will be discussed, as well as the current state-of-the-art results and remaining challenges to transition the technology.

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