RECENT TECHNICAL INQUIRY

The Joint (Army and Marine) Non-Lethal Weapons (NLW) Directorate requested that DSIAC support research on the topic of how a variable velocity non-lethal system can best meet the 0–100 meter non-lethal requirements for the Army and Marine Corps. DSIAC conducted research to identify existing non-lethal weapon systems in use by the Army and Marine... Read More

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FEATURED NEWS

The Fight Against Unmanned Aircraft Intrusions

One of the best examples of how rapidly advancing technologies can change security requirements is the rise of unmanned aerial vehicles (UAVs). Relatively unknown to all but a few in the military as recently as 1990, today they are central to militaries throughout the world; the general public can even buy them in grocery stores.

The U.S. Federal Aviation Administration (FAA) and its counterparts around the globe have been struggling to define operational limitations on UAV flight parameters, especially around airports, where several apparently accidental incursions... Read More

MODEL OF THE MONTH

AJEM – The Advanced Joint Effectiveness Model, or AJEM, is a survivability, lethality, and vulnerability (SLV) computer simulation code capable of analyzing one or more threats attacking a one or more rotary-wing or fixed-wing aircraft, small watercraft, ground-mobile system, and mounted or dis-mounted personnel.

Get this model!
VOICE FROM THE COMMUNITY

Craig Barker,
U.S. Army Research Laboratory

Our group at the Army Research Laboratory is drawing close to official verification, validation, and accreditation of our underbody blast model methodology to support the Army in evaluation of ground vehicles against buried blast attacks.

Apply to be part of our network of over 1,000 subject matter experts.

UPCOMING EVENTS

“Introduction to Brawler” Training Course
January 16, 2018 to January 19, 2018

SOFWERX Long Wave Infrared Rapid Prototyping Event (RPE)
January 16, 2018 to January 19, 2018

2018 High Temple Workshop
January 29, 2018 to February 1, 2018

2nd Military Additive Manufacturing Summit
February 1, 2018 to February 2, 2018

Want your event listed here? Let us know!

BULLETIN BOARD

SOFWERX Long Wave Infrared Rapid Prototyping Event (RPE)

U.S. Government Research Targets Helicopter Noise

Army Laser Forming Parts Could Be Game Changer for Soldiers, Developing Countries

Semiconducting Single Atom Chains: A New Research Frontier

Add your item to our board by contacting us.

Warfighter Trust In Autonomy

Also in this issue:

- Affordable Access to Low Earth Orbit
- Strain Measurement as a Means of Predictive Life-Cycle Analysis
- Reliability Research for a Maintenance-Free Operation Period
- Breakthroughs in Engine Propulsion Research with High-Performance Computing

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

**AUTONOMOUS SYSTEMS**

Engineers Program Tiny Robots to Move, Think Like Insects

**ADVANCED MATERIALS**

Researchers Inadvertently Boost Surface Area of Nickel Nanoparticles for Catalysis

**DIRECTED ENERGY**

Lasers Generate Hologram-Like 3D Images to Speed Volumetric 3D Printing

**ENERGETICS**

Scientists Develop Ultrafast Battery with Quarter-Million Cycle Life

**MILITARY SENSING**

An Algorithm for Your Blind Spot

**NON-LETHAL WEAPONS**

New Electroshock Weapon is Based on Wireless Tech

**RMQSI**

Misconfigured Communications Equipment Prevents Rocket Lab’s First Test Rocket from Reaching Orbit

**SURVIVABILITY AND VULNERABILITY**

New in 2018: Army to Issue New Body Armor to Soldiers

**WEAPON SYSTEMS**

Did a Warhead’s Refurbishment Enhance its Military Capabilities?
NEWLY AVAILABLE STI

Unmanned Air Systems
Avionics Wiring
Technical Manuals
Autonomous Systems

Tunable Surface Properties of Aluminum Oxide Nanoparticles From Highly Hydrophobic To Highly Hydrophilic
Advanced Materials

Laser Weapons System Technical Readiness Review (lws Trr) Brief (Technical Reviews)
Directed Energy

Solar-rechargeable Led Lantern And Cell Phone Charger
Energetics

Military Utility of Multispectral And Hyperspectral Sensors
Military Sensing

Testing of The Communications Electronic Attack With Suivellance And Reconnaissance (ceasar) System
Non-Lethal Weapons

Feasibility Analysis for Electrically-powered Hoverboard
RMQSI

A Protocol for Insensitive Propellant Screening Tests To Meet Insensitive Munitions Requirements
Survivability and Vulnerability

Evaluation of An Electric Linear Rail Gun for Battlefield Air Defense
Weapons Systems

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