The Dawn of Anti-Personnel Directed-Energy Weapons

Laser directed-energy laser weapons— or “LDEWs,” as they are commonly known— present the possibility of transforming warfare due to numerous operational advantages, such as incredible speed and range, light-weight, improved accuracy, and limited collateral damage. In some respects, this innovation is already on the brink of implementation. With forthcoming architectural changes, such as new platforms on which we can mount lasers, operational use could be just on the horizon. In other areas, however, development has stalled, because of international laws prohibiting the use of directed-energy weapons against personnel. If the Law... Read More

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14 AUGUST 2018

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Submit Your Technical Inquiry – 4 hours of research service for FREE

Notable Technical Inquiry

What research has been conducted on the weaponization of power sources such as batteries?

DSIAC was asked to determine if research has been done on power sources such as batteries being used as weapons or generating damage mechanisms. Utilizing the DTIC gateway, multiple subject matter experts (SMEs), and energy storage RDT&E groups, it was determined that there is no ongoing... Read More

Model of the Month

Vulnerability Toolkit – The Vulnerability Toolkit (VTK) is a suite of software tools that support ballistic vulnerability and lethality studies involving military systems. VTK provides analysts with the tools required to perform pre-test predictions, concept evaluations, trade studies, and requirements verification studies.

Get this model!!
VOICE FROM THE COMMUNITY

Jorgen Pedersen, President & CEO, RE2 Robotics

I founded RE2 Robotics in 2001 after working as a robotics engineer for Carnegie Mellon’s National Robotics Engineering Center. Our focus is on developing robotic manipulator arms that keep users out of harm’s way. We’re currently supporting the Office of Naval Research by adapting our dual-arm robotic system technology, the Maritime Highly Dexterous Manipulation System, for an underwater environment. The system will provide explosive ordnance disposal (EOD) divers with the same capabilities that robotic systems have brought to EOD technicians operating on land and allow them to inspect and dismantle underwater improvised explosive devices on vessels, bridges, and piers from a safe standoff distance.

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

UPCOMING EVENTS

Building More Survivable Defense Systems and More Effective Weapons: A Short Course on LFT&E — Fall 2018
11 September 2018 to 13 September 2018

Joint Aircraft Survivability (JAS) FY18 Program Review (JPR)
18 September 2018 to 20 September 2018

Directed Energy Systems Symposium
24 September 2018 to 28 September 2018

Future Indirect Fire
26 September 2018 to 28 September 2018

Want your event listed here? Let us know!

BULLETIN BOARD

NASA’s “KSC Reliability” Website Targets the Practitioner and its Stakeholder in Engineering Assurance With an Emphasis on Reliability and Risk

Have Reports & Documents You Want to Get Into DTIC — DSIAC can Help!

DARPA Subterrainian (SubT) Challenge Competitors Day

The Advanced Joint Effectiveness Model, or AJEM, v2.54 has Been Released!

Add your item to our board by contacting us.

Graphene: A Miracle Material With Promising Military Applications

Also in This Issue:
• Power Generation and Storage for Directed Energy Systems
• How the Military UAV Community Can Learn From the Commercial Drone World (and Vice Versa)

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

**ADVANCED MATERIALS**
- Ancient Paper Art, Kirigami, Poised to Improve Smart Clothing

**AUTONOMOUS SYSTEMS**
- Boeing’s Echo Voyager LDUUV is Back at Sea for Second Round of Testing

**DIRECTED ENERGY**
- Changing the Color of Light

**ENERGETICS**
- High Density Reactive Composite Powders

**MILITARY SENSING**
- Researchers Combine Metalens With an Artificial Muscle

**NON-LETHAL WEAPONS**
- Wrap Technologies Develops Bolo-Based Device to Subdue Suspects

**SURVIVABILITY AND VULNERABILITY**
- Russia Will Not Mass-Produce T-14 Armata Main Battle Tank
- Stealth Killer? Russia’s Sixth-Generation Fighter Might Have a “Radio-Photonic Radar”

**WEAPON SYSTEMS**
- U.S. Must Hustle on Hypersonics, EW, AI
NEWLY AVAILABLE STI
Documents only available through DTIC to registered users.

Advanced Systems for Adsorption of Toxic Gases
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Assessing Additive Manufacturing Processes With X-ray CT Metrology
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Building the Future Force Guaranteeing American Leadership in a Contested Environment
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Department of Defense Research & Engineering Enterprise ASD (R&E)
Distro. A

Engine Debris Fuselage Penetration Testing Phase II
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State of the Art Report (SOAR). Uses of Nanotechnology on Surfaces for Military Applications
Distro. A

State-of-the-art Report Update: Uses of Nanotechnology on Surfaces for Military Applications
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TARDEC 30-Year Strategy V2.0Tank
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