

# Defense Systems

## DIGEST

23 APRIL 2019 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



### NOTABLE TECHNICAL INQUIRY

*What research has been done in cryogenic barrel treatments for sniper barrels in order to improve accuracy and barrel life?*

DSIAC received a request for information on research and subject matter experts (SMEs) and/or points of contact (POCs) with experience in cryogenic treatment of steel for sniper rifle barrels. A DSIAC SME at Texas Research Institute Austin (TRI Austin) performed a literature search on DTIC, various repositories for... [Read More](#)

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

### FEATURED NEWS

#### The U.S. Navy Has Unveiled a New Hydrofoil, Its First in Decades

The U.S. Navy has tested a small hydrofoil boat based on the VT Halter Marine Mk Mod 2 High Speed Assault Craft, a predecessor to the service's stealthy Combatant Craft Assault special operations watercraft, or CCA. The revelation comes more than 25 years after the service retired its six Pegasus-class missile boats, the last of its operational hydrofoils.



The existence of the hydrofoil design first emerged in a video that the Naval Surface Warfare Center, Carderock Division, or NSWC Carderock, posted on YouTube on Mar. 12, 2019. A clip showing the small boat moving at high speed is part of a larger montage of clips of the center's work attached to the Navy's "Forged by the Sea" recruitment commercial.

There is no narration to the Carderock clips or other descriptions of the systems shown, but the craft in question is clearly based on the VT Halter Marine design, if not a direct hydrofoil conversion of one of these high-speed special... [Read More](#)

VOICE FROM THE COMMUNITY



**Ross Miller, CPP, Army Joint Non-lethal Weapons Program Support Officer, SURVICE Engineering**

I am contracted by the U. S. Marine Corps-led Joint Non-lethal Weapons Program. In addition to working as a liaison between the Army and Joint Program, I support enabling future non-lethal weapons capabilities for the Futures and Concepts Center, Army Futures Command. Our latest exploration is including non-lethal weapons on future platforms for self-protection, maneuver enhancement, and escalation of force during Multi-Domain Operations in the Army of 2028 and beyond.

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

UPCOMING EVENTS

**2019 NDIA Robotics Conference & Exhibition**

24 April 2019 to 25 April 2019

**Directed Energy to DC Exhibition**

29 April 2019 to 2 May 2019

**AUVSI XPONENTIAL 2019**

29 April 2019 to 2 May 2019

**5th Ceramics Expo**

30 April 2019 to 1 May 2019

► Want your event listed here? Let us know!

BULLETIN BOARD

**“Introduction to BRAWLER” Training Course**

**A Short Course on Live Fire Testing and Evaluation**

**Webinar: Cyber Survivability – Keeping Mission Systems Survivable in the Event of a Mission-Based Cyberattack**

► Add your item to our board by contacting us.

DSIAC JOURNAL WINTER 2019



**Measuring Combustion Products in Small Arms Blowback Gases**

**Also in This Issue:**

- Modular Human Surrogate for Non-Lethal Weapons (NLW) Testing
- Sustainable Mobile Electrical Infrastructure
- American “Astrologistics”
- Active Electronically Steered Array (AESA) Antenna Testing



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

RECENT NEWS



**Marines Qualifying 3D Printed Replacement Impellers for Battle Tanks**



**To Fight Drone Swarms, the Corps Wants a Battle Drone That Can Kill Other Drones**



**HEL on High Water: The Top Navy Laser Weapon Systems**



**Falcon Heavy Launch Paves the Way for Starlink and Air Force Satellites**



**Army Researcher Invents Detector for Buried, Non-Metallic Bombs**



**The U.S. Marines Want to Mount Powerful Lasers on Vehicles That Can Stun or Attack Out-of-Control Crowds**



**New Changes Will See Marine Grunts Humping Farther Distances While Testing Combat Effectiveness**



**Camo Netting, an Age-Old Tool, Is Being Re-Engineered for the Modern Battlefield**



**Navy Planning to Develop Multi-Domain Offensive Strike Missiles**

# JOURNAL OF DoD RESEARCH & ENGINEERING

*"The Synergistic Source of S&T Innovation"*



## Journal of DoD Research & Engineering (JDR&E)

The newest edition of the JDR&E Volume 2, Issue 1 is now available!

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Defense Systems Information Analysis Center  
4695 Millennium Drive, Belcamp, MD 21017  
Phone: 443-360-4600  
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