ONR rolls out combat and tactical vehicle fleet at Modern Day Marine Expo

EurekAlert

With several advanced warfare vehicles and a lineup of exciting technologies, the Office of Naval Research (ONR) will showcase its latest expeditionary equipment at the 2010 Modern Day Marine Exposition scheduled Sept. 28-30 at Quantico Marine Corps Base, Quantico, Va.

Modern Day Marine is one of the world's largest trade shows featuring expeditionary warfare equipment. More than 400 exhibitors and 8,000 attendees are expected to attend the event—now in its 30th year—for an up-close look at equipment and systems that support the U.S. Marine Corps and other allied forces' air, land and sea operations.

ONR's displays will include a Humvee, converted to provide 30 kilowatts of auxiliary on-board vehicle power; an advanced tactical vehicle with hybrid electric drive; a concept combat vehicle focused on crew centric survivability; an advanced convoy security module; and an unmanned platform for logistics resupply.

One of the displays is the Gun¬slinger Package for Advanced Con¬voy Security (GunPACS), a gunfire detection and counter-fire system designed for mounting aboard light-platform ground vehicles. The system gives vehicles the ability to identify small-arms fire, rapidly engage targets from under armor, and share gun sight and situational awareness vid¬eo with the combat operations center in real time.

The Ground Unmanned Support Surrogate (GUSS) will also be showcased. The all-terrain GUSS provides autonomous resupply capability, carrying up to 1,800 pounds, at speeds of up to 5 mph.

Much of the equipment used by U.S. Marines and other allied forces is first seen at Modern Day Marine by military leaders, operations planners and acquisition managers. This year's featured technologies support operations in Iraq, Afghanistan and around the world in the continuing fight against terrorism.

ONR's technology will be featured at Tent C, Booth No. 3065. Exhibit areas will open at 10 a.m. daily. For more information about Modern Day Marine, go to www.marinemilitaryexpos.com/modern_day_marine/index [1]

The complete list of featured ONR technologies on display at Modern Day Marine includes:

Large Vehicle Static Displays

- Gunslinger Package for Convoy Security (GunPACS) and Modular Vehicle Platform (MVP): The MVP is an advanced system mounted on the Marine Corps' Medium Tactical Vehicle Replacement (MTVR), which provides convoy security, enhanced situational awareness, threat detection and immediate response via a remote weapons station. MVP is a new concept allowing Marine Corps platforms to have multi-mission payload plug and play capability through a common interface. This provides for modularity that could result in reduction of numbers of platforms and operating costs.
- Reconnaissance, Surveillance, and Targeting Vehicle (RST-V): One of the most advanced technology demonstrator platforms in the world, RST-V consists of a hybrid electric drive system, in-hub electric wheel motors, lithium ion battery pack and innovative suspension.
- Ultra Armored Patrol Vehicle (APV): The APV is a concept platform to investigate new and novel occupant-centric approaches to improving ground vehicle crew survivability.
- Humvee On Board Vehicle Power (OBVP): The Humvee has been converted to provide 30 kilowatts of onboard vehicle power for use by a range of power consuming payloads.
- Ground Unmanned Support Surrogate (GUSS): GUSS is an all terrain vehicle converted for unmanned control to provide autonomous resupply capability.

Models and other displays

- Expeditionary Fighting Vehicle (EFV) Models: Quarter-scale Hydrodynamic model of the Marine Corps future Expeditionary Fighting Vehicle and 1/26 scale model of the current Amphibious Assault Vehicle (AAV).
- 6 Degree of Freedom (DOF) Motion Simulator: Hop on this simulator and experience the difference in ride quality of a conventional Humvee suspension versus an advanced active Humvee suspension.
- Electronically Controlled Active Suspension System (ECASS) Display: An overview of this advanced active suspension for Humvee applications.
- Shock Seat Display: New state-of-the-art seat test device and advanced seat design efforts.
- Joint Light Tactical Vehicle (JLTV) Display: An overview of ONR's support to the JLTV program.
- Small Unit Enhanced Technologies (SUMET) Display: ONR will share its investments regarding Autonomy technologies to enable unmanned/autonomous operations in harsh Marine Corps environments.
- Lightweight Armor Display: Overview, descriptions and material samples available for viewing.
- Magneto-Rheological (MR) Fluid Damper Display: Test device demonstrating the interworking of the MR fluid technology.

SOURCE [2]

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[1] http://www.marinemilitaryexpos.com/modern_day_marine/index
[2] http://www.eurekalert.org/pub_releases/2010-09/oonr-oro092410.php