

PRESS RELEASE



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For Immediate Release

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U.S. Army Hybrid Vehicle on Display during Inaugural Emerging Tech Day at Indy 500

U.S. Army Detroit Arsenal, Warren, Mich. – This week’s first-ever Emerging Technology Day at the Indianapolis Motor Speedway promises some of the brightest technical innovations in advance of the country’s premier auto race. Comfortably alongside those innovations will be one of the U.S. Army’s “greenest technologies” to demonstrate how an advanced powertrain can save taxpayer dollars and – most importantly – save Soldier’s lives.

The IMS Emerging Technology Day is Saturday, May 7, as part of the ramp up to the Indianapolis 500. Events begin with the OneAmerica 500 mini-marathon and continue with various competitions and challenges including the Purdue ev Grand Prix/Big Ten challenge, Formula Hybrid and American Solar Challenge. The day concludes with the Centennial Era Balloon Festival in advance of a May 8 balloon race.

The U.S. Army’s Tank Automotive Research, Development and Engineering Center (TARDEC) from Detroit will take part in the display area with its renowned Clandestine Extended Range Vehicle – better known simply as CERV.



CERV demonstrates the very latest in hybrid-electric vehicle technology and military stealth. Jointly designed by Quantum Fuel Systems Technologies and TARDEC’s National Automotive Center (NAC), the prototype CERV was designed for quick-paced mobility operations such as reconnaissance, surveillance and target designation. CERV pairs Quantum’s new advanced all-wheel-drive diesel hybrid-electric powertrain with a light-weight chassis to produce a torque rating that exceeds 5,000 foot-pounds. The unit can maintain speeds of 80 miles per hour and climb 60 percent grades – all while reducing fuel consumption by up to 25 percent compared with conventional vehicles of comparable size.

“In keeping with the Nation’s interest in fuel efficiency, renewable power and energy security, TARDEC is fully engaged in ambitious programs that push development of hybrid electric vehicles for U.S. military use,” noted TARDEC NAC Director Paul Skalny. “Having CERV

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at the Indianapolis Motor Speedway – the proving ground from which both the defense and automotive industry have learned so much – is a solid indicator of where this technology can go.”

Energy efficiency is of great importance to the Army. Skalny points to an Army study that shows a mere one percent improvement in energy efficiency would mean that 6,444 fewer Soldiers would have to participate in fuel convoy missions – one of the most dangerous operational roles.

Limited ride options in the CERV are available for media attending the event on Friday.

ABOUT TARDEC

Headquartered at the U.S. Army Detroit Arsenal in Warren, MI, TARDEC is the Nation’s laboratory for advanced military automotive technology and serves as the Ground Systems Integrator for all Department of Defense (DOD) manned and unmanned ground vehicle systems. With roots dating back to the World War II era, TARDEC is a full life-cycle, systems engineering support provider-of-first-choice for all DOD ground combat and combat support weapons, equipment and vehicle systems. TARDEC develops and integrates the right technology solutions to improve Current Force effectiveness and provides superior capabilities for Future Force integration. TARDEC’s technical, scientific and engineering staff lead cutting-edge research and development in Ground Systems Survivability; Power and Mobility; Ground Vehicle Robotics; Force Projection; and Vehicle Electronics and Architecture. TARDEC is a major research, development and engineering center for Research, Development and Engineering Command and an enterprise partner in the TACOM Life Cycle Management Command.

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