

MEDIA ADVISORY



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U.S. Army's Fuel Efficient Demonstrator Vehicle, Tactical Robots Featured at 2013 All American Bowl

- *Concept vehicle provides 70% higher fuel efficiency than comparable military vehicle*
- *In cooperation with the Robotic Systems Joint Project Office, a fleet of robots will open eyes to new science, technology, engineering, math careers*

SAN ANTONIO – Since 2001, the U.S. Army All American Bowl game has showcased the talents of hundreds of the top-ranked high school football players. And, again this year, fans will experience some of the Army's top technologies on their way into and out of the game, including a concept vehicle that has the capabilities of an up-armored Humvee but with a 70 percent improvement in miles-per-gallon rating and a fleet of robots that are complementing soldiers on dull, dirty and dangerous missions.

“We are proudly supporting the Army's All American Bowl efforts again this year,” says Derhun Sanders, Communications and Outreach director at the Army's Tank Automotive Research, Development and Engineering Center (TARDEC). “It is an honor to show off the art of the possible with our demonstrator vehicle, and our partnership with the Robotic Systems Joint Project Office is sure to excite fans while educating them as well.”

Displays will be at the U.S. Army Strong Zone – a 129,000-square-foot interactive area featuring elite technology as well as family entertainment. It is open to the public Friday, Jan. 4, from 8 a.m. to 7:30 p.m. and on Saturday, Jan. 5, from 9 to 11 a.m. and 2 to 5 p.m.

Fuel Efficient Ground Vehicle Demonstrator Alpha saving fuel, saving lives

FED Alpha is one of two concept vehicles that are showing what fuel efficiency gains are achievable on a military vehicle, informing new and existing programs, and providing decision makers with crucial insight regarding improved fuel economy across the Army fleet.



FED Alpha features a number of fuel-saving technologies including:

- Goodyear low-rolling-resistance tires which minimize the energy wasted as heat between the tire and the road
- Optimized Cummins super/turbocharged 200-horsepower, 4.5-liter, inline 4-cylinder diesel engine

– more –

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

- Alcoa Defense lightweight aluminum monocoque armored cab with underbody blast shield
- Performance friction low-drag aluminum brake calipers
- REM Chemical Isotropic Superfinishing gears – a finishing process often used in racing vehicles to reduce friction and vibration and improve shifting
- Continental Teves accelerator force feedback pedal, which cues the drive to accelerate the vehicle for optimal efficiency
- Carbon fiber body panels, which reduce weight and increase rigidity.

More information on FED Alpha and TARDEC is available at www.tardec.army.mil.

Robots Destroyed in Combat = 795 lives saved (10/2005-11/2012)

Robotic Systems Joint Project Office (RS JPO), under the leadership of PEO Ground Combat Systems, takes a joint (Army and Marine Corps) perspective in managing the development, systems engineering, integration, acquisition, testing, fielding, sustainment and improvement of unmanned systems which will form the backbone of the future force.



The organization is spearheading development of the first generation of unmanned ground systems employing the latest sensor, remote navigation, and command and control technologies to integrate robotics into battlefield missions. Speeding these technologies to the battlefield will potentially revolutionize combat operations.

In the Army Strong Zone, fans will have the opportunity to operate the robots and get lessons in how science, technology, engineering and math (STEM) skills connect among school, community, work and the global enterprise.

More information about RS JPO is available at <http://www.rsjpo.army.mil/index.html>

2013 U.S. Army All-American Bowl

For more than a decade, the U.S. Army All-American Bowl has been the nation's premier high school football game, serving as the preeminent launching pad for America's future college and NFL stars. Andrew Luck, Mark Sanchez, Tim Tebow, and Marcus Lattimore all made their national debuts as U.S. Army All-Americans. In the 2012 NFL Draft, Luck became the first U.S. Army All-American Bowl alumnus to be selected with the first overall pick. The 2012 U.S. Army All-American Bowl drew a record crowd of 39,011 to the Alamodome, and was the most-watched sporting event on television over the weekend. www.usarmyallamericanbowl.com

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