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Children's Center Benefits

liances.

earned

a wine-tasting fundraiser for event, which Pepper said has

From a Sip of the Grape

OCTOBER 4, 2010

Road-Testing the Path to Carbon Reduction

porting and disposing of prod-

Shepps said that fuel use

data is very useful for calculat-

ing CO2 emissions, while dis-

tance traveled is better for cal-

culating CH4 and N2O

emissions, according to the

Emissions for on-road freight

can be calculated using vehi-

cle distances or weight dis-

Resource Institute

ucts sold by the firm.

World

(WRD)

By Jim Stickford Staff Reporter

David Shepps, 6 Sigma master black belt material planning and logistics manager for Ford Motor Co., spoke at the Sept. 28 AIAG greenhouse gas guideline symposium about how to measure carbon emissions.

Jonathan Newton, global lead supply chain sustainability strategy for Ford, was also at the symposium and said the company "road tested" a draft of AIAG's methodology for measuring Scope 3 carbon emissions. Shepps spoke about what Ford learned.

The definition of Scope 3 tances data, depending on the emissions is broad and can incircumstances, Shepps said. A



PHOTO: STEFANIE CARANO

Susan Pepper, left, Ford Motor Company manager of corporate alliances, with Carol Bosché and George Winn of The Children's Center, at the Detroit Uncorked fundraiser. Ford, a major sponsor of the event, displayed its 2011 Fiesta, above, and Edge vehicles.

travel, to "upstream" emisuses more energy to travel sions embedded in products than a truck carrying foam padding, even though they purchased or processed by the firm, to "downstream" emismight travel the same distance. sions associated with trans-

Newton said AIAG, working with the WRI, is developing a standard methodology for measuring Scope 3 emissions. Ford acted as the beta tester for AIAG for six months. The automaker learned about the process, implemented it and offered opinions and the opinions of Ford suppliers at the end of the test.

'This required collaboration throughout the value chain to get a full understanding of your GHG footprint," Newton said. "We started in January and

Visitors to the Ford Confer-

ence and Event Center last

week sampled flavors from

vineyards around the world

as part of Detroit Uncorked -

The Children's Center in De-

Guests were offered sam-

ples of more than 300 wines

ranging in bottle price from

\$7 to \$200, as well as the op-

portunity to participate in a

silent auction where a selec-

tion of fine wines were avail-

year's fundraiser was to bring

younger demographics into

The Children's Center's family

they thought that might work

"And one of the ways that

of supporters.

One of the goals of this

able for the highest bidder.

By Stefanie Carano

Staff Reporter

troit

clude anything from employee truck carrying engine blocks were finished by June. We're now going through the figures and have developed our own personal GHG inventory."

> Newton said the whole process is really about looking at this information that is collected at a global level and evaluating it to determine a company's risks and opportunities at a more local level.

Newton said companies, by understanding how their carbon footprint is generated, can look for efficiency gains, and ultimately even opportunities for trading emissions with another company.

That's when one company,

would be with a wine-tasting,

so the natural fit was with the

Detroit Wine Organization,"

said Susan Pepper, Ford's

manager of corporate al-

Ford helped organize the

sponse from the company.

As a presenting sponsor,

considerable

"The Ford employees are

very excited to have it right

here in Dearborn this year,"

Pepper said. "We were able to

give them early admission

based on our presenting

sponsorship and I estimate

we saw at least 50 to 100 Ford

supported The Children's

Center in a myriad of ways

ever since the center was

CONTINUED ON PAGE 5

"Ford Motor Company has

employees here.

re-

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Redesigned 2012 Focus Same for Europe, U.S.

styles. Pictured here is the four-door sedan.

Ford Motor Company revealed the 2012 Focus last week at the

Paris Auto Show. The new Focus comes in three different body

By Stefanie Carano Staff Reporter

Visitors to the Paris Auto Show last week got a taste of Ford Motor Co.'s latest global vehicle with the 2012 Focus a completely redesigned compact model intended to accelerate the company's ONE Ford strategy.

Like the Fiesta, which was introduced as a global model this year, the Focus will share the same platform for U.S. and European production and essentially be the same car in both markets.

What's more, North Ameriwill take place in Southeast Michigan at the Michigan Assembly Plant in Wayne.

"Our objective with our new wave of small cars is to seriously strengthen our hand in this segment here and around the world – not just to match the appeal of Honda, Toyota and VW, but to

exceed it," said Derrick Kuzak, Ford's vice president of global product development.

PHOTO: FORD

The Focus is built on Ford's C170 platform, a predecessor to the C120 platform, which is also the Mazda BG platform. The latest version of the vehicle comes in three body styles - the 5-door hatchback and 4-door sedan version will be featured in the North American market. The new 5door hatchback sports a larger, more luxurious appearance than the previous North American model.

In vehicle quality, Ford can production for the Focus North American engineers have been working closely with their European colleagues to bring together a global capability for the Focus and to emphasize attention to detail.

According to Don Ufford, Ford's chief vehicle engineer,

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Efficient Vehicles Means Fewer Soldiers Deployed

By Stefanie Carano Staff Reporter

The U.S. Army is developing a number of vehicle solutions intended to improve its vehicles' fuel efficiency - not just TARDEC is building two vehito save costs, but to protect its soldiers.

"If we can improve one percent fuel economy in the vehiof soldiers that won't be exrector of product development for the U.S. Army's Tank Automotive Research, Development and Engineering Center. Mathes, a plenary session speaker at last week's Hybrid Truck Users Forum (HTUF) at the Hyatt Regency in Dearborn, talked about the latest research being conducted by TARDEC to improve fuel efficiency in their tactical vehicles. He said TARDEC currently has a project called the Fuel Efficiency Demonstrator that looks at all of the existing fuel conservation technologies with the goal of discovering

cy of a tactical vehicle while balancing "the three Ps" protection, performance and payload.

Within the FED project, cles, one with a highly efficient diesel system and one with a hybrid system. With each vehicle, the company is cle, it saves 6,200 convoys examining a number of differfrom being deployed, convoys ent factors to determine what influences their fuel efficienposed to harm's way," said cy, while also acknowledging Thom Mathes, executive di- that the operator is in fact the biggest influencer in fuel use and conservation. The two vehicles, for instance, are equipped with an optic accelerator pedal that lets the drivers know if they're not driving efficiently, while also allowing them to accelerate quickly if need be. "So, if you look at Ford's (Fusion Hybrid) 'leaves, we've got devices to assist that. The trick is determining the duty cycle so you can properly measure fuel economy," Mathes said. He said TARDEC is looking at vehicle components like Superfinish gears, composites, carbon fiber and the what can be done to optimize power plant, or engine sys-

and maximize the fuel efficien- tem, and examining how they integrate into a vehicle to determine whether the components contribute to a higher vehicle fuel economy at a system level.

"Based on this, what we're learning is if you use lowrolling resistance tires, you he said. get about an 8 percent improvement in system fuel



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PHOTO: FORD

Ford Motor Co. recently revealed the new 2012 Focus ST, a global high-performance vehicle featuring a 2.0-liter EcoBoost engine.



PHOTO: STEFANIE CARANO

At the recent Hybrid Truck User Forum, Thom Mathes (right), executive director of product development for Tank Automotive Research. Development and Engineering Center discusses TARDEC's latest research in alternative energy military vehicles with the U.S. Army's HTUF Program Manager Brad McNett.

Focus ST to be Launched by May

By Stefanie Carano Staff Reporter

Last week in Paris, Ford Motor Co. unveiled the new 2012 Focus ST, a high-performance version of Ford's newly-designed Focus model.

Initially developed as a performance vehicle for the European market, under the ONE Ford strategy, the 2012 is a global high-performance model scheduled to launch in all Ford markets worldwide by May of next year.

The Focus ST will feature a 2.0-liter EcoBoost engine with that Ford is confident that the 240 horsepower and 10 percent more power and torque than the 2.5-liter engine in the

current ST, which is sold in the European market.

"At its heart is another great engine with Ford Eco-Boost technology," said Derrick Kuzak, vice president of Ford product development. 'It gives customers the power they'd expect from a larger engine but with outstanding fuel efficiency."

Gunnar Herrmann, Ford's Global C-car vehicle line director, told the press that the ST represents an ultimate expression of Focus driving quality and performance and new model will strengthen

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PHOTO: JIM STICKFORD

Darryl Niven, general manager of Eaton Corp.'s vehicle group supercharger division, shows off one of the company's SuperChargers at the supplier's Marshall, Mich., testing track.

New Slip Differential Delivers Better Fuel Mileage

By Jim Stickford Staff Reporter

Eaton Corp., a major supplier to auto manufacturers, unveiled on Sept. 23 its Ultra-Posit, an all-new electronic limited slip differential at its testing track in Marshall, Mich.

UltraPosit can be used in front- and rear-wheel-drive vehicles, and allows them to perform comparably to fourwheel-drive and all-wheeldrive systems while providing up to a 10 percent saving in fuel economy.

Chris Ostrander, vice president and general manager -Eaton Torque Controls, said Eaton's engineering team was able to adapt their electronic and mechanical locking and limited slip differentials for larger rear- and four-wheeldrive systems to the unique pact front-wheel-drive vehicles

"We're focused on the customers' most critical issue, smaller packaging," Ostrander said. "This allows our customers to reduce vehicle weight up to 300 pounds, which translates into improved fuel economy and enhanced performance and safety for the end consumer."

Ostrander said Eaton's UltriPosit differential is located inside the transaxle and gets input from the existing brake, wheel-speed, steering-wheel, throttle, yaw and lateral acceleration sensors to ensure each wheel is receiving sufficient torque.

If there is slippage, it instantaneously engages a hydraulic power supply to transfer extra torque to the wheel with the most traction by modulat-

requirements of more com- ing the differential from fully ogy is designed to increase open to fully locked, and any- safety while reducing emiswhere in between, depending sions. on driving conditions.

Ostrander said Eaton's testing showed a 20 to 30 percent improvement in managing over-steer with less brake intervention compared with similarly-equipped all-wheeldrive vehicles.

Darryl Niven, general manager - vehicle group supercharger division, said the company is proud of its differential technology. He said GM even advertises the system in its GMC truck commercials.

"When they talk about locking differential, they're talking about our system," Niven said. "That's rare, but they see the value of it.'

Eaton also showed off its new electronic fuel vapor management valve for hybridelectric vehicles. The technol-

Eaton's fuel tank isolation valve uses two pieces of company technology: solenoids and vapor management valves, said Julie Tolley, general manager, fuel emissions and powertrain controls Eaton Vehicle Group.

"Hybrid-electric vehicles have significantly reduced the time the engine is on, which inhibits the ability to purge fuel vapor stored in the carbon canister," Tolley said. 'Eaton's hybrid fuel tank isolation valve enables fuel vapor containment within the tank until the engine is available and prevents canister saturation and hydrocarbon leakage.'

The valve design allows for