Detroit Auto Scene

"FIRST IN THE HEART OF DETROIT"

VOL. 83 NO. 12



This Malibu display shows how driving safety standards are recorded.

2016 Malibu to Offer Safety **Report Card for Teen Drivers**

car to a teenager for their first drive alone.

Parents know that coaching a teenager on how to learn safe driving skills is vital, said GM spokesman Chad Lyons. According to the Insurance Institute for Highway Safety, in the United States, the fatal crash rate per mile driven for 16- to 19-yearolds is nearly three times the rate for drivers ages 20 and over.

The new 2016 Chevrolet Malibu will debut the Teen Driver, a system that provides parents with a tool to help encourage

It's hard to hand the keys of a safe driving habits for their kids, even when they are not in the car with them.

Teen Driver supports safe driving habits by muting the audio of the radio or any device paired with the vehicle when front seat occupants aren't wearing their safety belts, and it gives audible and visual warnings when the vehicle is traveling faster than preset speeds, Lyons said.

This feature is the first in the industry with a built-in system that lets parents view on a dis-

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Jeep Safari to Showcase New Concepts

Seven new, capable and fun Jeep concept vehicles - featuring a host of Mopar and Jeep Performance Parts available to consumers - saw their debut at Moab, Utah, at the 49th annual Easter Jeep Safari, taking place between March 28-April 5.

The Easter Jeep Safari is attended by thousands of die-hard off-road enthusiasts, who each year enjoy a week of serious offroading on some of the country's most rugged and recognizable said Fiat Chrysler trails. spokesman Todd Goyer.

"Jeep is proud to be taking seven new eye-catching and extremely capable vehicles to the Easter Jeep Safari, where we expect to delight our most loyal enthusiasts," said Mike Manley, president and CEO - Jeep Brand. 'We go to this legendary event each year to showcase our latest Jeep production vehicles, as well as a variety of new ideas in our concept vehicles. In doing so, we receive a tremendous amount of valuable feedback, while interacting with our customers in the Jeep brand's natural environment. We're especially looking forward to this year's Jeep Safari, as Renegade makes its official public debut on Moab's demanding trails."

This year's collection of Easter Jeep Šafari concept vehicles were designed with a combina-



This Staff Car concept vehicle was inspired by its ancestors from WW2.

tion of production and prototype Jeep Performance Parts. Mopar designed, engineered, built and quality-tested the Jeep Performance Parts (JPP) line meeting strict Jeep specifications, with 4x4 capability and craftsmanship so owners can transform their stock rides into even more capable trail performers. Gover said.

"The most enthusiastic offroaders travel to Moab each year for this premier event, making Easter Jeep Safari the perfect place to showcase Jeep Performance Parts," said Pietro Gorlier, president and CEO - Mopar Brand Service, Parts and Customer Care. "Jeep owners are passionate about their vehicles and Mopar, with Jeep Authentic Accessories and Jeep Performance Parts, offers a full-line of

products for them to express this passion through customization, making sure there is no other vehicle like theirs on the road."

The seven new concept vehicles built for Moab this year were created by a small team of dedicated, passionate engineers, designers and fabricators that have been customizing production vehicles since 2002, and have introduced more than 50 concept vehicles for the enthusiasts who attend the popular Easter Jeep Safari, Goyer said.

The 2015 Easter Jeep Safari concept vehicles include:

• Jeep Chief – A tribute to the classic 1970s era full-size Jeep Cherokee, this Wrangler-based concept vehicle evokes the west

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2016 Focus RS Set for New York Auto Show

It's been said if you can make it in New York, you can make it anywhere. The new Ford Focus RS is set to debut on U.S. soil at the 2015 New York International Auto Show.

Focus RS pioneers innovative Ford Performance All-Wheel Drive delivering "blistering" cornering speed for excellent performance and "unbridled driving enjoyment for enthusiasts in North America for the first time.' said Ford spokesman Aaron Miller.

The high-performance road car introduces advanced performance technologies, and is the first Ford RS equipped with selectable drive modes - including industry-first drift mode as well as launch control, Miller said

The third-generation high-performance hatch features a 2.3liter EcoBoost engine delivering well in excess of 315 horsepower, along with the most powerful Ford RS braking system ever. Its dramatic exterior design offers optimized aerodynamics and cooling, with 9 percent less drag over the previous model. "Customers have begged for the Focus RS to come to the United States for years," said Raj Nair, group vice president, Global Product Development, Ford Motor Company. "And now we can say that they are getting one of the most innovative, powerful and best-looking RS cars ever. That is special. The RS line has a proud history of technical breakthroughs," Nair added. "It's a great example of our passion for innovation through performance, and creating vehicles that make people's hearts pound."



el that will be produced for all markets at Ford's Saarlouis, Germany, manufacturing plant beginning late this year, with sales in North America beginning in spring 2016.

The Focus RS Mk I debuted in October of 2002 and was Ford's return to the RS (Rally Sport) badge. This iteration used a 2.0

litre Ford Zeta engine and was rated at 212 horsepower. The development of the RS happened at Ford's Tickford Engineering site in Milton Keynes, Britain.

Nair said the Focus RS is able leverage innovative Ford Performance All-Wheel Drive with

Debut of 2016

Ford Focus RS

SAE World Congress Readies For 2015 Session in Detroit

by Jim Stickford

Come this April, Congress will be in session in Detroit. The Society of Automotive Engineers (SAE) World Congress, that is.

Gretchen Stokes, conference director for the SAE, said the 2015 Congress takes place at Cobo Center in downtown Detroit between April 21 -23.

"This year's theme is how engineers are leading mobility innovation," Stokes said. "Every year the Congress has a 'executive lead' company. It's Honda in 2015. And then there's a Tier I strategic partner, which is Continental. These two companies lead the way in deciding themes

for that year's particular Congress."

Stokes said that the SAE has been holding its World Congress in Detroit for more than 80 years. The "first" Congress was actually a gathering of five engineers.

"They didn't present papers or anything," Stokes said. "But these five people decided to come back and meet in a year."

That's how the Congress got its start, Stokes said, and that tradition of meeting in Detroit as been kept up ever since.

Starting in 2009, SAE made some changes as to how the Congress presented speakers and in-

This Focus RS is the first mod-



WABCOs new facility in Rochester Hills

Local Supplier Expands Lab, **Invests in SE Michigan**

technologies that improve the safety and efficiency of commercial vehicles, has recently expanded its engineering capabilities in North America.

The company opened a new commercial vehicle development and testing facility in Rochester Hills to help develop the nextgeneration safety and efficiency technologies for trucks, buses and trailers, said WABCO spokeswoman Laura Oliveto.

WABCO has invested \$1.5 million and built an advanced 4,400square-foot site to support the work of more than 50 engineers involved in the innovation and development of new products and systems for commercial vehicle

WABCO, a global supplier of manufacturers and fleet operators in North America, Oliveto said.

> "We continue to invest in our manufacturing and engineering capabilities in North America to better serve our customers in the region," said Nik Varty, WAB-CO President, Americas. "The new facility in the Greater Detroit Area enables us to offer seamless support to design, develop and test breakthrough technologies that further commercial vehicle safety and efficiency in the U.S. and around the globe."

> This investment is just one several that WABCO is making for its North American facitlities. It also investing \$17 million to build a new manufacturing facility in Charleston, S.C., Oliveto said.

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Deadline: Thursday 5:00 p.m. for the next edition of Monday William Springer II, publisher

Lisa A. Torretta, operations Jim Stickford, news

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SAE Set to Open **World Congress April 21-23**

CONTINUED FROM PAGE 1

formation, Stokes said.

Instead of having someone speak to a whole bunch of people in a giant room, speakers now give their presentations in an special area called the "tech hub," Stokes said.

This area is has several smaller venues where presenters speak for about 20 minutes on their various topics. Instead of hundreds of listeners, there are, maybe, a 100 other participants who can then ask questions about the topic at hand.

'The idea is to create short informative presentations that allow for more engagement between the speaker and the audience," Stokes said. "The seating for each presentation will only be for about 100 people. What we are trying to get away from is an environment where it's like a classroom, with everyone sitting and looking at teacher. We want to remove the barriers between speaker and audience.3

Stokes said that over the three days of the Congress there will be a total of 14 different Tech Talks

And each day will have a different theme. On day one, there will presentations on lightweighting of vehicles.

On day two, the presentations will be about the future of the connected consumer and the role that the modern motor vehicle will play in that connection.

On day three, presenters will talk about the combination of virtual reality and 3D printing, including efforts to get a real 3D-printed car on the road, Stokes said.

Stokes said that the SAE will also focus on attracting and keeping young people who want to be engineers in the automotive industry. Afterall, it's never too early to groom the next generation of leaders.

Cadillac has created a new generation of V6 engines, led by an exclusive Twin Turbo V6 that will be one of the industry's most advanced six-cylinder gasoline engines.

It leverages the latest technology to balance efficiency, performance and refinement in the upcoming, top-of-the-range CT6 luxury performance sedan, said GM spokesman Tom Read.

The new Cadillac 3.0L Twin Turbo is designed to achieve new thresholds of refinement and specific output for the brand's new prestige luxury sedan. Read said, which makes its world premiere March 31, at the New York International Auto Show. Production begins late this year at General Motors' Detroit-Hamtramck Assembly Plant.

Peak output is estimated at 400 horsepower and 400 lb-ft of torque, making it one of the most power-dense V6 DOHC engines in the world, developing 133 horsepower per liter.

The 3.0L Twin Turbo is the only six-cylinder engine to combine turbocharging with cylinder deactivation and stop/start technologies to conserve fuel, Read said.

Cadillac expects the combination to enhance fuel economy up to an estimated 6 percent.

Cylinder deactivation temporarily deactivates two of the cylinders in light-load driving conditions to enhance efficiency and seamlessly reactivates them when the driver demands full power.

With the stop/start system, the 3.0L Twin Turbo is shut down in certain driving conditions such as stop-and-go city driving to reduce fuel consumption, automatically restarting when the driver takes his or her foot off the brake pedal.

'Cadillac's elevation on the world stage is driven in great part by its advanced powertrain Twin Turbo powers past the traditional segment leaders with higher degrees of the performance and refinement their reputations were built on," said Rich Bartlett, assistant chief engineer.

The highly-acclaimed Hydra-Matic 8L90 eight-speed automatic transmission transfers the 3.0L Twin Turbo's power over to the CT6.

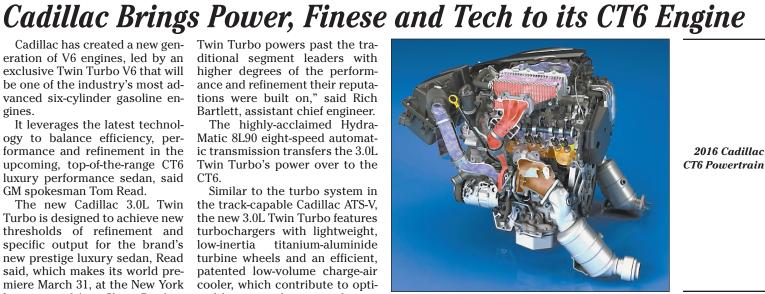
Similar to the turbo system in the track-capable Cadillac ATS-V, the new 3.0L Twin Turbo features turbochargers with lightweight, low-inertia titanium-aluminide turbine wheels and an efficient, patented low-volume charge-air cooler, which contribute to optimal boost production and more immediate power delivery.

The advanced, low-inertia turbochargers enable the engine to sustain peak torque from 2,500 rpm to 5,000 rpm, giving it a broad torque curve that is conveyed to the driver through a feeling of responsive, sustained power across the entire rpm band.

"Torque is the pulling power of an engine and the new 3.0L Twin Turbo delivers it with confidence-inspiring smoothness and progression," said Bartlett. "In fact, the potency of the torque across the rpm band is matched only by the satisfaction of the horsepower created as those revs climb quickly to 6,500 rpm."

The 3.0L Twin Turbo's estimated 400 horsepower and 133 hp per liter is 27 percent greater than the BMW 740Li's 3.0L turbocharged I-6 (315 hp and 105 hp/L) and 29 percent more than the Audi A7's 3.0L supercharged V6 (310 hp and 103 hp/L), Bartlett said.

Cadillac's new 3.0L Twin Turbo is part of a new generation of technologically advanced V6 engines developed by GM, which includes a new version of the



award-winning 3.6L naturally aspirated engine employed for years across the brand's model range.

Each features all-new structural and combustion elements designed to complement higher performance and greater efficiency with exceptional quietness and smoothness.

The 3.0L Twin Turbo is up to 5 dB quieter than the Audi 3.0L TF-SI engine, while the 3.6L is up to 4 dB quieter than the Infiniti 3.7L

Features shared by the 3.0LTwin Turbo and 3.6L include:

• Stronger, stiffer aluminum block with increased structure in the bulkheads for superior rigidi-

• Tough, refined rotating assembly with a stiff forged-steel crankshaft, friction-reducing polymer-coated pistons and strong high-copper-content, sinter-forged connecting rods.

• New four-cam phasing system with intermediate park technology that enhances efficiency by enabling late inlet valve closing in certain conditions.

• New, patented "targeted" cooling system that provides strategic cooling of the engine's hottest areas while simultaneously fostering faster warm-up, which enhances efficiency.

• New cylinder heads that enhance combustion performance and include direct injection and feature integrated exhaust manifolds.

• Revised, simplified timing drive system with cushioned chain sprockets contributing to quieter engine operation.

• All-new oiling system moves the pump inside the block for quieter operation. The two-stage oil pump also enhances efficien-

cy. "This new architecture leverages the best of Cadillac's proven, awarded V6 engine technology and takes it farther with a finer focus on refinement and durability to match its benchmark output and efficiency," said Bartlett.

Both of Cadillac's new V6 engines will be produced at General Motor's Romulus Powertrain Operations assembly facility, which received a \$540-million investment to retool in order to build the next-generation V6 engines for GM.



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"FIRST IN THE HEART OF DETROIT SINCE 1933"

Silverado's Design Reduces Cost of Repair

Collisions can happen anytime, anywhere, and the resulting body damage frequently results in complicated – and expensive – repairs. Not so much the 2015 Chevrolet Silverado, which was designed to save time and cost during body shop visits.

"Designing automobiles to be both durable and light weight is a challenge for the automotive industry," said John Van Alstyne, president and CEO of I-CAR, an international organization focused on sharing new repair procedures among automotive repair professionals. "Advanced materials may deliver both qualities, but automakers need to still ensure vehicles are still designed for affordable reparability."

When development work began on the current generation Silverado several years ago, General Motors' engineers incorporated several features that allow technicians to efficiently repair collision damage, said GM spokesman Tom Wilkinson.

"When we design trucks, we don't only consider what features our consumers demand from a full-size truck," says Mark Szlachta, a GM serviceability design engineer. "We also approach the process with our technician hat on, ensuring we engineer a truck that is straightforward and cost-effective to repair."

Tom Wilkinson said that ease of repair at a lower cost is very important when it comes to pickups.

"The average age of the a pickup on the road is about 11 years," Wilkinson said. "People love their trucks and want to keep them going. It's also very important for farmers and small business people, like contractors, who use their trucks to make a living. For them, total cost of ownership, which includes repair costs over the lifetime of the vehicle, become an important deciding factor when it comes to choosing a truck."

By keeping that fact in mind from the very beginning of the design and development process, GM is able to keep costs of repair down, Wilkinson said. And that helps sell the Silverado to buyers.

The Silverado reparability features include:

• Front frame rail section. Because of the way Silverado's front frame rails are engineered, minor impacts don't necessarily equate to substantial repair bills. Depending on the severity of the impact, technicians may be able



The 2015 Silverado was designed with the cost of repairs in mind.

to repair a leading section of the truck's frame instead of replacing the entire chassis. If so, the damaged section can be cleanly cut away at a specific location, and a new service section – shipped fully assembled – can be welded in place.

• Structural front fenders. On many passenger vehicles, unbolting a damaged front fender removes only the outer skin, leaving behind additional structure welded to the cab. If that structure is damaged, technicians then need to drill out welds in order to remove the panel. On the Silverado, the front fenders incorporate both outer sheet metal and the supporting inner structure, allowing simple unbolting of the entire assembly.

• Bond-on body panel procedures. When it comes to replacing non-structural body panels, including outer roof panels or outer door panels, technicians can use an ultra-strong structural adhesive to bond the panels onto the vehicle. This helps avoid welding and possible corrosion issues later while speeding the repair.

• Pre-prepared roof panels.

OU Presidential Inauguration Set

The inauguration of George Hynd as president of Oakland University will take place on Wednesday, April 29, at 3 p.m. in the university's O'rena.

At the July 9, 2014, special board of trustees meeting, Hynd was appointed as Oakland University's sixth president, succeeding Betty J. Youngblood. With more than 40 years of educational experience, Hynd's career includes a number of other leadership roles at nationally recognized universities such as Arizona State University and Purdue University. Technicians can get replacement panels that essentially plug-andplay, thanks to pre-installed studs and pre-drilled holes for accessories.

• One-piece body side outers. If damage occurs to the outer panels of the cab, technicians can order a complete body side outer, shipped as a single, complete assembly, allowing technicians to cut out and replace only the damaged area instead of the entire assembly. "Our goal is to only have weld seams where we absolutely need them," Szlachta said.

• Flexible bed repair options. If the Silverado's pickup bed or outer bedside should ever be significantly damaged, owners won't necessarily need to purchase an new pickup box. Depending on the damage, the outer bedside or the bedside assembly can be replaced from the bed floor out.

2016 Ford Focus RS Debuts At New York Auto Show

CONTINUED FROM PAGE 1

Dynamic Torque Vectoring to deliver a new level of handling capability and driver enjoyment – combining outstanding traction with unmatched agility and cornering speed.

The system is based on electronically controlled twin clutch packs on each side of the reardrive unit. The control unit continuously varies front-to-rear and side-to-side torque distribution to suit the driving situation monitoring inputs from multiple vehicle sensors 100 times per second. A maximum of 70 percent of the drive torque can be diverted to the rear axle. Up to 100 percent of available torque can be sent to each rear wheel delivering the torque-vectoring capability that has a dramatic impact on handling and cornering stability.

In cornering situations, the rear-drive unit pre-emptively diverts torque to the outer rear wheel based on steering wheel angle, lateral acceleration, yaw and speed. This torque transfer has the effect of "driving" the car into a bend – achieving improved turn-in and stability while virtually eliminating understeer.

The system is tuned to deliver exceptional grip – with lateral acceleration exceeding 1 g – along with exciting cornering speed and acceleration out of a bend, Nair said.

"This all-wheel-drive system is a breakthrough technology – capable of delivering supreme cornering and handling at the limit," said Dave Pericak, director, Global Ford Performance. "We ripped up the rulebook that says allwheel-drive hatchbacks aren't fun to drive, and created a car that will surprise and reward in equal measure."

To deliver optimum driving dynamics, Ford Performance All-Wheel Drive is calibrated alongside the car's advanced Electronic Stability Control, in particular, the brake-based torque-vectoring system that works in parallel with torque-vectoring all-wheel drive, Pericak said.

Other exclusive chassis features include a sport suspension with stiffer spring rates and more efficient bushes and antiroll bars than those found in Focus ST, two-mode switchable and dampers, which offer a firmer setting for track use. Specially tuned electric power-assisted steering, in combination with an optimized front suspension knuckle design and shorter link arms delivers connected and responsive steering with outstanding feel.

Ford worked with Michelin to develop a choice of high-performance 235/35R-19 tires to complement the driving dynamics Focus RS offers.







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Chrysler Creates Special Truck for Law Enforcement

The Ram Truck brand unveiled on March 25 a unique Texas Ranger concept truck to commemorate and promote the brand's partnership with the renowned law-enforcement agency and the Texas Ranger Hall of Fame and Museum.

Introduced by Ram Truck Brand president and CEO Bob Hegbloom at the 2015 Dallas Auto Show, the Ram Texas Ranger concept truck brings the legendary spirit of the Rangers to the road.

"The Ram team developed this commemorative concept truck in order to further highlight our relationship with the Texas Rangers and the Texas Ranger Hall of Fame and Museum," said Bob Hegbloom, president and CEO, Ram Truck.

"Although Rangers are wellknown horsemen, today Texans drive more pickups than drivers in any other state in the country."

Both inside and out, the Ram Texas Ranger edition celebrates the Rangers and the iconic silver Lone Star Ranger badge.

At the 2014 State Fair of Texas, Ram Truck announced a new partnership with the Texas Rangers, aiding the preservation of the history of the renowned law-enforcement organization.

Ram Truck Brand President and CEO Bob Hegbloom marked the event by presenting the Texas Ranger Hall of Fame and Museum with a check for \$100,000. In partnership with the FCA Foundation, Ram's support is helping to perpetuate and promote the heritage of the Texas Rangers via the Texas Ranger Hall of Fame and Museum in Waco, Texas.

Chrysler Vehicles Earn Top Picks in U.S. Southwest

AAA Arizona has named the 2015 Chrysler 300 and 2015 Jeep Renegade two of its Top Vehicle Picks for 2015.

The Chrysler 300 has been named a Top Pick in the Full-size Sedan segment, while the Jeep Renegade earned the title of Top Pick in the Cool Car segment, said Chrysler spokesman Jiyan Cadiz.

Jim Prueter, AAA Arizona automotive journalist, said of the Chrysler 300, "This big, bold American sedan has world-class levels of sophisitication, craftsmanship, and technology including Wi-Fi service."

When praising the Jeep Renegade, Prueter added, "It has personality, character, and most importantly, it is iconic Jeep in spades. Its appearance suggests a cartoonish ruggedness and its Trail Rated creds confirm its offroad capability. There's no denying the little Renegade is a head Each year, AAA Arizona names the best vehicles in 16 categories, chosen from automobiles recently test-driven, Cadiz said. Vehicles are evaluated on performance, safety, fuel economy, styling, reliability, and other judging criteria. The new 2015 Jeep Renegade expands the brand's global vehicle lineup, entering the growing small SUV segment, Cadiz said. The new 2015 Chrysler 300, Cadiz said, highlights Chrysler's "six decades of ambitious American ingenuity through iconic design proportions and inspired materials, world-class quality and craftsmanship, best-in-class 31 mpg highway fuel economy, plus class-exclusive innovations – including a state-of-the-art TorqueFlite eight-speed transmission."

Jeep Safari to Showcase New Concepts

CONTINUED FROM PAGE 1

coast surfer lifestyle of sun and fun with a nod to nostalgic beach rides.

Jeep designers developed the Hawaiian themed interior complete with Jeep-designed "Surfer" pink, blue and white flowered cloth and leather-trimmed seats; vintage-style surf stickers on the center console and door handles; a Rosewood front-passenger grab handle and tiki-style shifter handle; and Uconnect 8.4-inch touchscreen media center.

• Jeep Staff Car – The Jeep Staff Car was built as a salute to legendary Jeep military service vehicles. The open-air Wrangler four-door-based concept vehicle highlights rugged functionality with heritage design cues. It looks historic and authentic, but is all new.

The function over form of the original Jeep military service vehicles is evident in the Staff Car. Basic steel wheels, minimalist fender flares, "hungry horse" stretched canvas roof and bench seats all echo the original military Jeep vehicles.

The Jeep Staff Car is powered by the 3.6-liter Pentastar V6 engine mated to a six-speed manual transmission. The Staff Car has a

Jeep Performance Parts 2-inch lift kit with Fox shocks and front and rear Dana 44 axles.

• Jeep Wrangler Africa - The Africa is the "ultimate" Jeep Wrangler for back-country and overland expeditions, with room for extra gear and auxiliary fuel tanks

The Wrangler 4-door-based vehicle sports a Desert Tan exterior paint, a high-clearance steel front bumper with winch, power step rock rails, power dome vented hood and an extended rear body and high-top roof. Powered by a 2.8-liter diesel engine mated to an automatic transmission, the Wrangler Africa also features fender-mounted auxiliary fuel cans. The Africa sports 17-inch body color steel wheels with 35inch BF Goodrich Mud Terrain tires.

The powertrain is the 3.0-liter diesel V6 engine mated to the eight-speed Torqueflight transmission.

• Jeep Renegade Desert Hawk - The newest addition to the Jeep lineup, the Jeep Renegade, is the basis for the Desert Hawk concept vehicle, and is equipped with a selection of Mopar and Jeep Performance Parts for the ultimate desert adventure.

The Renegade Desert Hawk is

powered by the 2.4-liter Tigershark engine with MultiAir2 mated to a nine-speed automatic transmission with Jeep Active Drive Low.

• Jeep Cherokee Canyon Trail - The Canyon Trail concept vehicle is developed from the Jeep Cherokee, Four Wheeler Magazine's "2015 Four Wheeler of the Year." In the spirit of that award, the Canyon Trail ups the Cherokee's best-in-segment capability with Mopar and Jeep Performance Parts specifically designed for even more off-road prowess.

The Jeep Cherokee Canyon Trail is powered by the 2.4-liter Tigershark MultiAir2 I-4 engine mated to a nine-speed automatic transmission with Jeep Active Drive Lock, which includes low range and a locking rear differential.

• Jeep Wrangler Red Rock Responder – Based on the Jeep Wrangler, the Red Rock Responder is a support vehicle purposebuilt to traverse the world's harshest terrain with premium off-road equipment to respond to any vehicle emergency with spare parts and tools stored in the built-in drawers and compartments of the cargo box.

Functional capability is increased with the addition of 37-



This WW2 jeep carrying FDR inspired Jeep's Staff Car concept vehicle.

inch BF Goodrich Mud Terrain T/A KM2 tires, four inches of JPP lift, Fox shocks, and front and rear Dana 60 axles with 5.38 gearing from Jeep Performance Parts. The vehicle also sports a cold-air intake, prototype off-road rock rails and a Warn winch. Red Rock Responder is also armed with Wrangler Rubicon 10th Anniversary Edition steel front and rear bumpers and high-top fenders that were previously concept parts but quickly became a production part due to popular demand.

The Jeep Wrangler Red Rock Responder is powered by the 3.6liter Pentastar V6 engine mated to an automatic transmission.

UAW-Ford Charity Bowling Event Set for April 11

UAW-Ford Local 228 will host its Dave Dooley Charity Bowl, an annual charity bowling tournament to take place Saturday, April 11, at Sunnybrook Lanes in Sterling Heights.

Registration starts at noon and bowling begins at 1 p.m.

The Dave Doolev Charity Bowl was created in honor of the late Local 228 chairman, Dave Dooley, who died of compliations from cancer.

In memory of his community service and enthusiasm. members have since created the annual charity event in Dooley's honor, said Saunja Jenkins, Local 228 chairman and event organizer.

Beginning in 2010, one year after Dooley's death, Jenkins said members raised both funds and awareness for local charities and issues, such as Ronald McDonald House, Forgotten Harvest, Making Strides Against Breast Cancer Walk, and Wigs for Kids.

"I just really love people, and when we promote our union, we also promote the needs of people," said Saunja Jenkins, Local 228 chairman and event organizer.

The event is one of many examples in which UAW-Ford employees work collectively to help make a positive difference in the lives of others, Jenkins said.

For six consecutive years, members have hosted the event. generating more than \$10,000 for local charities annually.

This year, proceeds will benefit YWCA Interim House women's shelter, which seeks to increase domestic violence awareness.

Admission is \$20 and includes pizza, pop, shoes and three games.

To purchase tickets or for more information, call 586-826-5226

Ford Works to Make Vehicles the Best Inside and Out

When it comes to great automotive styling, what's inside a car counts as much as what's on the outside.

With that in mind, Ford is working with new research and measurement methods and hightech tools to collect emotional and logical customer insights and learn more about how people visually discover new cars and trucks. New techniques include eye tracking, measuring where eyesight lingers most and biometrics, said said Raj Nair, Ford Motor Company group vice president, Global Product Development.

'Vehicle interiors have witnessed one of the biggest evolutions across the history of cars in recent years," said Nair. "Not only have we introduced a great deal of useful new technology into our cars and trucks, we consistently are adding better materials, improved design and increased features across the board, from high-end vehicles to entry-level segments.

"All of this leads to a focus on design languages that not only convey the right messages, but deliver on an enhanced user experience.'

Research shows that a greatlooking interior design can attract new buyers, but if that design isn't thought through to accommodate various customer needs, the result can be a less satisfying experience for the the edge detailing. The result is a

design solutions.

"Over the past few years, we have gained some incredible momentum with our designs," said Callum. "As we move forward, we need to build on and evolve what we have achieved so far to continue to deliver exciting and fresh solutions. The interior design of the Ford GT builds on existing DNA and pushes it forward.

Three guiding principles drive Ford GT interior design:

• Clarity of intent - highlighting focused areas of functionality.

• Innovation – pushing the boundaries of innovation to develop new designs and keep changing the way the world moves

• Connection – establishing a connection with the driver through more compact, more intuitive technology

These fundamentals come to life in the Ford GT interior through design solutions that visually communicate:

• Fit for purpose - technology is concentrated and organized in clear islands with an ergonomic logic. All essential functions are within reach without the driver having to move his hand position Lean and lightweight - the instrument panel features a two-tier step design with floating wing.

It makes use of the negative space while calling attention to

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MEMBER FDIC



The new Ford GT uses cutting-edge design techniques for its interior.

feeling of spaciousness within the vehicle.

• Perceived efficiency – soft materials and hard technology are carefully balanced so that all touchable materials are soft and all technology areas are hard, conveying laser precision across the instrument panel.

The thinking behind the interior design of Ford GT extends bevond the automotive world, serving as inspiration for Ford's display at this year's Salone del Mobile, Callum said.

The world's most prestigious international furniture and design event takes place April 14-19 in Milan, Italy.

Designers across Ford's global design studios applied the new approach to the creation of unique non-automotive objects including a racing sailboat, musical instruments and a football table.

Just as with global design review for a vehicle, proposals were vetted by the leadership team to ensure alignment with fundamental design principles, feasibility and efficient use of resources.

"The guidelines developed for the design of the Ford GT interior can lead to very different solutions within and beyond the automotive field," said Callum. "We opened the challenge to our team to submit proposals for Milan and the response was overwhelming. Selecting the finalists that will be on display was difficult."

driver and passengers of that vehicle, Nair said.

Data collected in Ford's experimental research is guiding the Ford design team to shape the best customer experience possible.

This is innovation in the design process as well as in the tools used. Research will happen up front, while responses to color, materials, and any other critical element will continue to be assessed through customer clinics at a later stage of the process, said Moray Callum, Ford Motor Company vice president, Design.

Ford followed a similar approach in designing the interior of the all-new Ford GT - a twodoor supercar that serves as a technology showcase for top EcoBoost performance, aerodynamics and lightweight carbon fiber construction.

First, the main components of the Ford GT interior were identified, then the design was pushed forward, introducing new principles and innovative 30 year mortgage payment too long? 15 year mortgage payment too tight?

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EARBORN ERAL BANK

DETROIT AUTO SCENE

Fisher Farm Cattle Moved To "General Motors Valley"

The question of how the bloodlines of Hereford cattle in rural Virginia got improved actually has an automotive answer.

It all began in 1951 when GM executive Cyrus Osborn purchased farm property in Warm Springs, Va., near the West Virginia border.

Osborn was born in Dayton, Ohio, and started working for GM in 1921 after receiving a degree in mechanical engineering. He held a number of posts at the company, eventually becoming a vice president of the company in 1943. He retired in from GM in 1962.

According to Franz "Dutch" Von Schilling, a realtor who worked in Bath County, Va., where Warm Springs is located, Osborn convinced a colleague from GM – Harold Dice – to move to the area in the 1960s.

Dice was a vice president and general manager of the Allison Division of GM in Indianapolis. He was born in 1905 and grew up in Veedersburg, Ind., which is farming country. He joined GM in 1929 after graduating from the University of Illinois.

Dice would stay with GM for the rest of his working career, retiring from the company in 1967, as stated in his obituary.

According to Von Schilling, Dice was convinced by Osborn that Bath County was the place to retire to. He had purchased a small cattle farm.

Dice's foreman, Kenny Robertson, is still alive. He said "Mr. Dice" had been raised in farm country growing up, so retiring to a farm was like going home. Robertson said that he was referred to Dice by Osborn.

As to how two GM executives from Indiana and Ohio ended up buying farms in Bath County, Va., GM historian Christo Datini said it might have something to do with the fact that beginning in the 1930s, GM would hold conferences at the Greenbrier resort in nearby White Sulfur Springs, W. Va.

"It wouldn't be a stretch to think that a number of executives became fond of this area and purchased land after they retired from GM," Datini said.

Osborn died in 1968, about a year after Dice moved to the area. His farm, Mill Run, is still in operation.

Von Schilling said that even though Dice died in 1973, he is still remembered by the local farmers for what he did with improving the local Hereford cattle breeds.

Robertson said that around 1970 Dice purchased several head of cattle from the herd of Edward Fisher, one of the original seven Fisher brothers. It was Fisher's family that founded Fisher body.

Ed Fisher was born in 1891 and died in 1972. During his life, he maintained cattle farms. According to an Associated Press story in 1955 his 2,500 acre farm, home to about 600 head of Hereford cattle, was sold to make way for Ford's proving ground in Romeo. Fisher then purchased a 1,000 acre spread for his cattle in Livingston County, near Brighton. Both farms were



Kenny Robertson recalls how GM exec Harold Dice bred cattle.

named Hi-Point.

"Harold Dice died in 1973," Von Schilling said. "But he is still fondly remembered by the farmers of Bath and Highland counties in Virginia for what he did to improve the genetics of the local Hereford cattle."

Von Schilling said bringing in prize Herefords to upgrade local bloodlines was something Dice did for local farmers and it wasn't something he did for himself.

It was a generous act that is still remembered to this day, Von Schilling said.

"He didn't have to do that," Von Schilling said. "We still have a number of small working farms in the two counties. I think, in total, there are only 5,000 people in Bath County and 3,000 people in Highland County."

Von Schilling said Osborn's property crosses the line that separates the two counties.

And, Von Schilling said, some people referred to the part of U.S. 220 that is adjacent to their prop-



Harold Dice

erties as "General Motors Valley." "But that was a long time ago," Von Schilling said. "You'd have to find an old codger like me who remembers that."

And that's how two retired GM executives used cattle bred in Michigan by one of the Fisher brothers of Fisher Body to improve the blood lines of Hereford cattle in rural Virginia.

Leuliette Leaves As Visteon Moves to Auto Electronics

Visteon Corporation's president and CEO Timothy D. Leuliette's will transition out of the company by the end of 2015 when his successor is appointed.

The board of directors has retained executive search firm Spencer Stuart to evaluate candidates to succeed Leuliette, said Visteon spokesman Jim Fisher.

From a collection of many businesses and legacy issues, over the last 30 months Visteon has become a focused electronics company.

"It has been an honor and a privilege to lead Visteon through our dramatic changes," said Leuliette. "Given the excellent progress we have made to focus and streamline the company, including the pending sale of our 70 percent ownership stake in HVCC, I believe now is the right time to transition to the next generation of leadership.

"I am proud of the people at Visteon, the significant shareholder value we have created, and the support of my colleagues and our valued customers over the past two-and-a-half years. It is now time for a different leader with different skills to transform Visteon into an even more powerful electronics business.' Under Leuliette's leadership, Visteon has been changed through a series of transactions and internal restructurings, Fisher said, from a multi-business auto supplier into an electronics company.

Visteon Corporation's presient and CEO Timothy D. Leuliberus Capital Management;

• Merged Visteon's climate business into its 70 percentowned Korea climate business, Halla Climate Control Corporation, creating Halla Visteon Climate Control Corporation (HVCC), the second-largest automotive thermal management business in the world;

• Acquired Cooper Standard's thermal and emissions product line;

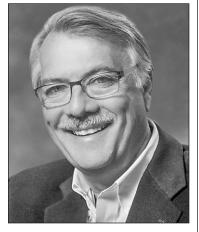
• Announced the pending sale of the company's 70 percent ownership stake in HVCC to an affiliate of Hahn & Company, a South Korean-based private equity company, and Hankook Tire Co. Ltd. for \$3.6 billion.

"On behalf of the entire board, I would like to thank Tim for his vision, leadership and outstanding contributions to Visteon since becoming president and CEO in 2012," said Francis M. Scricco, chairman of the board.

"Tim's transactional experience was critical to our company's dynamic transformation, which has increased Visteon's stock price 2.5 times and created about \$2.5 billion of shareholder value.

"In addition, the strategy was professionally executed and completed almost a year ahead of schedule. The board is extremely pleased with the job Tim and his team have done during this restructuring.

"Given the tremendous opportunities ahead for Visteon, and its product and market strengths, we are confident we will find an individual with the right background and skill set to



Tim Leuliette

lead and transform our company to achieve further success in the rapidly evolving automotive electronics market."

Choral Group Sets Schedule For Spring

The Spring schedule for the Motor City Chorale has been set.

The organization, which got its start in 1933 as the General Motors Employees' Chorus (GMEC), was a fully GM-sponsored employee activity with membership limited to GM employees and retirees, said Chorale publicity chairwoman Carol Milligan.

In 1978 (during an economic downturn), GM ended its support and funding for all their employee extracurricular organizations. Rather than disband its membership, members of GMEC chose to reorganize and become a self-supporting organization.

"When we did this, our purpose of promoting the General Motors Corporation was amended to also include bringing quality vocal music and music education to audiences who might not otherwise be able to obtain it," said Milligan.

"We do not sell tickets or charge a fee for our performances. Instead, we ask for a free will offering during our concert performances at churches and community venues.

"Whatever is collected – regardless of the amount – we accept as a donation. When we perform at senior centers, for charitable organizations and/or charity events, we will accept a donation if one is offered but will gladly perform for free if one is not."

The schedule:

• Friday, April 10, 7:30 p.m., St. Clare de Monte Falco Catholic Church, 1401 Whittier, Grosse Pointe Park;

• Sunday April 12, 7:30 p.m., St. Margaret of Scotland, 21202 East 13 Mile, St. Clair Shores;

• Friday, April 17, 7:30 p.m., First Presbyterian Church of Warren, 3000 East 12 Mile, Warren;

• Sunday, April 19, 3 p.m., Northminster Presbyterian Church, 633 Big Beaver, Troy;

• Sunday, April 19, 7:30 p.m., Cana Lutheran Church, 2119 Catalpa, Berkley;

Friday, April 24, 7:30 p.m., Joint concert with Lincoln High School Choirs, Lincoln High School, Warren – Admission \$3;
Sunday, April 26, 3 p.m.; American Lutheran Church,

38795 Mulberry, Clinton Township;

• Sunday, April 26, 7:30 p.m., Holy Innocents, 26100 Ridgemont, Roseville.

To learn more about the chorale, visit motorcity-chorale.org.

Learn How To Get The Most From Your Retirement Savings

Over the past 30 months, the company has:

• Acquired the electronics business of Johnson Controls to create a \$3 billion global electronics business;

• Sold the Interiors business of its Yanfeng joint venture to HASCO, while acquiring control of the JV's automotive electronics business in a transaction valued at \$1.5 billion;

• Sold its lighting division to the Varroc Group of India;

• Sold a significant portion of its global interiors business to Reydel Automotive Holdings



DETROIT AUTO SCENE

New 2016 Malibu To Offer Safety 'Report Card'

CONTINUED FROM PAGE 1

play how their teenager drove the vehicle. Maximum speed reached, distance driven and number of times active safety features were engaged all can be confirmed.

"We developed this system so parents could use it as a teaching tool with their kids – they can discuss and reinforce safe driving habits," said General Motors safety engineer MaryAnn Beebe. "As a mother of two, I know anything that has the potential of keeping one's family safer is of great value to parents."

Malibu can keep track of the following:

• Distance driven;

• Maximum speed traveled;

- Over-speed warnings issued;
- Stability control events;
- Antilock brake events;
- Forward Collision Alerts, if

equipped; • Forward Collision Braking

events, if equipped. To use Teen Driver, a parent needs to enable the feature by creating a PIN in the Settings menu of their available MyLink system, which then allows them to register their teen's key fob. The system's settings are turned on only to registered key fobs.

When active, Teen Driver automatically mutes the radio until front safety belts are fastened. Additionally, the radio system's maximum volume can also be set to a lower level. If the vehicle is equipped with active safety features like Forward Collision Alert, they are automatically turned On. Parents can select a maximum speed (between 40-75 mph), which, if exceeded, activates a visual warning and audible chime.

If equipped, these are the safety features that are automatically turned On and incapable of being manually turned off when Teen Driver is activated:

- Stability Control;
- Front and Rear Park Assist;
- Side Blind Zone Alert;
- Rear Cross Traffic Alert;
- Forward Collision Alert;

• Daytime Running Lamps/ Automatic Light Control;

- Forward Collision Braking;
- Traction Control;

• Front Pedestrian Braking. "The first step with this technology is to make sure that all drivers and passengers within the car are safe," said Steve Maiona. Charmolat and marketing

the car are safe," said Steve Majoros, Chevrolet car marketing director. "In addition to innovative safety technologies like this, you will see efficiency, advanced connectivity and stunning design in the 2016 Malibu."

Teen Driver is not a subscription-based service, Lyons said, so it remains with the vehicle permanently and will be standard on the Premier trim and optional on LT models if equipped with the Convenience Package and up-level radio. The 2016 Malibu debuts at the New York Auto Show in early April and is expected to go on sale at the end of 2015.



BorgWarner to Expand Facility

BorgWarner expanded its manufacturing facility at its campus in Ramos-Arizpe, Mexico, to meet increasing demand for emissions technologies in North America.

The expanded facility will produce exhaust gas recirculation (EGR) modules, ignition coils and coolant control valves for use in gasoline- and diesel-powered passenger cars, minivans and light-duty trucks in the North American market.

Press Association Honors Ford's History

Ford Motor Company and its founder Henry Ford were honored at the Washington Automotive Press Association's 30th Anniversary Gala on March 19 with the organization's Golden Gear Award. The company and its founder were being recognized for their outstanding contributions to the automotive industry, said Ford spokesman Craig Van Essen.

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Jim Holland, vice president, Vehicle Components and Systems Engineering, Ford Motor Company, was on hand to accept the award from Melanie Batenchuk. 2014-2015 WAPA president and founder/editor of BeCarChic.com, and Les Jackson, 2015-2016 WAPA president and host of Cruise Control Radio.

"On behalf of all the men and women of Ford Motor Company, I'd like to thank the Washington Automotive Press Association for the Golden Gear Award," said Holland. "Henry Ford left us with quite a legacy, and the Ford team continues driving innovation through every part of our business to improve people's lives. This is what has always defined us as a company. Through innovation, we are changing the way the world moves.'

Henry Ford didn't just set out to build a strong business by introducing compelling products he was passionate about making Holland said.

Henry Ford may be best known around the world for the invention of the affordable car that put the world on wheels, but equally notable is the mark he made on society - perfecting the moving assembly line to help usher in another industrial revolution and doubling wages of factory workers, which helped give rise to the middle class.

Carrying on the legacy of its founder, Ford Motor Company is driving innovation in every part of its business, Holland said. This includes:

 EcoBoost engine technology that is now in more than 5 million Ford vehicles, helping people everywhere save gas.

• Advanced, lightweight materials that make America's bestselling pickup truck, F-Series, even more capable and efficient. Industry-first inflatable rear safety belts that provide additional protection for rear seat passengers, as well as other safety innovations that help millions of people avoid accidents.

Earlier this year the company announced its Ford Smart Mobility plan to use innovation to take it to the next level in connectivity, mobility, autonomous vehicles, customer experience and big data.

Ford is also conducting 25 mo-

Catch Detroit Auto Scene

life better for millions of people. bility experiments around the world this year to test breakthrough transportation ideas to create better customer experiences, more flexible user-ship models and social collaboration that can reward customers, Can Essen said.

> The experiments seek to address four global megatrends explosive population growth, an expanding middle class, air quality and public health concerns, and changing customer attitudes and priorities - challenging today's transportation model and limiting personal mobility, especially in urban areas.

> Henry Ford believed a good business makes excellent products and earns a healthy return,



Melanie Batenchuk, Les Jackson and Jim Holland at awards ceremony.

and that a great business does all who work at Ford Motor Compaof this while creating a better ny each day to make the best world, Holland said. That vision cars and trucks around the continues to drive the people

world.

Compact SUVs Are Growing in Popularity

by David McHugh AP Business Writer

FRANKFURT, Germany (AP) -In Europe, SUV now stands for: Shrinking Utility Vehicle.

An array of ever-smaller sport utility vehicles and SUV car-like crossovers went on display earlier this month at the Geneva International Motor Show. Automakers are piling into the segment as one of the best hopes for growth in a still-weak European market.

Consumers like the higher seating, easier entry and perceived greater freight-carrying capacity. Automakers like the fact that they can build an SUV body on the same mechanical platforms and modules they use for compact cars, saving money on development costs.

The key in Europe has turned out to be putting the vehicles on platforms originally built for compact or small mid-sized cars. They're generally less than 4.5 meters or 177 inches long, or smaller than a Honda Civic, which measures 179.4 inches.

Compact SUVs have gained in popularity globally, but they're really getting attention now in Europe. The smaller size helps with narrow streets and tight parking in European cities that made full-size SUVs less practical for many people, and a little politically incorrect as well for the more environmentally-conscious.

The recently lower price of gasoline will not hurt, although gas remains painfully expensive in Europe compared with the United States due to high taxes.

Analyst Tim Urquhart at IHS Automotive say these new models are further evidence that European car buyers are shifting away from classic sedans and hatchbacks in favor of SUV body styles.

"It's signaling a bit of a sea change which has been happening in the European market for the better part of a decade now, a

gradual shift from passenger carstyle body types, your conventional sedans and hatchbacks, and more toward these SUV and crossover sort of vehicles.

"They use existing powertrain technology and existing passenger platform architecture. You raise the ride height a bit, use some funky SUV styling cues, and you've just created a different genre of vehicle. You're extending your range in a cost-effective manner, in a way that's exciting to consumers.'

The market for the smaller versions "continues to have huge growth potential" even as more and more carmakers pile into it, as they did with big SUVs years ago.

Small SUV sales in Europe are expected to triple from 1.1 million to 3.2 million annually over the next decade, IHS Automotive predicts. That's even as small and midsize car sales show only stable sales, rising from 4.7 million units to 5.3 million.

Europe's car market needs the boost as its economy slowly heals from the recent financial crisis.

Car sales rose for the 17th straight month in January in the 28-country European Union, and last year's sales of 12.55 million vehicles represented a 5.6 percent increase over the year before – the first such increase after six years of declines. Sales, however, remain far below the 2007 peak of just under 16 million.

Kelley Blue Sees Stronger Automotive Sales in March

New-vehicle sales are expect- when sales fell just shy of 17 miled to decline 0.3 percent yearover-year to a total of 1.53 million units in March 2015, resulting in an estimated 16.9 million units, down 0.3 percent from seasonally adjusted annual rate March 2014 and up 21.9 percent (SAAR), according to *Kelley Blue* from February 2015. Book's www.kbb.com. The projected slight decline in volume in March largely is due to one fewer Saturday this month compared to last year. "Similar to last year, winter weather had a negative impact on new-car sales in February," said Alec Gutierrez, senior analyst for Kelley Blue Book. "Consumers then returned to the market in a big way last March, and we expect a similar, though less pronounced, bump in sales this March, too. Auto sales are currently being led by pickup trucks and sport utility vehicles, which is good news for the automakers focused on these segments, as these are typically their most profitable units." First-quarter sales should total 3.93 million units, up from 3.74 million units a year ago, for a 5.1 percent improvement. This will be the best first quarter since 2007. Total sales in 2015 are projected to hit 16.9 million overall, the highest total since 2005,

lion units. In March, new light-vehicle sales, including fleet, are expected to reach 1,530,000

The seasonally adjusted annual rate (SAAR) for March 2015 is estimated to be 16.9 million, up from 16.4 million in March 2014 and up from 16.2 million in February 2015. Retail sales are expected to account for 81.5 percent of volume in March 2015. Toyota Motor Company is expected to continue its gains from last month by capturing the most market share in March 2015. Toyota is off to a fast start this year with especially strong sales of its SUV lineup, which is up more than 20 percent in the first two months of the year. *"Kelley Blue Book* also expects to see growth in March from American Honda, which has seen a dip in car sales this year, but excellent growth among its utility models like the Honda CR-V," said Tim Fleming, analyst at Kelley Blue Book. "With the upcoming redesign of the mid-size Pilot scheduled for this summer, gaining momentum in these segments is vital for Honda."



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DetroitAutoScene.com

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UAW Contract Talks to Center Around Hourly Tier Wages

DETROIT (AP) - The leader of received hefty annual profit sharthe United Auto Workers union ing checks. Williams didn't adhas rejected a third tier of lower wages for members who make auto parts.

Speaking March 25 at the union's national bargaining convention in Detroit, President Dennis Williams said the UAW already has too many tiers of lower wages.

Williams was responding to reports that General Motors Co. and Ford Motor Co. may propose a third tier of pay. He already is under pressure from union members to end a second tier of wages that's about half the \$28 per hour made by longtime workers

He told delegates that he heard people talking about the third tier, which would pay less than the \$15.28 starting wage for second-tier workers, on their way in to the convention center Wednesday morning.

"I'm thinking they got too many damn tiers now," said Williams, who received a standing ovation.

Actually, a third tier of wages already is in place at several General Motors factories in the Detroit area for a small number of workers who build battery packs and place parts in the right sequence to be assembled on cars. Without the lower tier, the work may have gone to countries with lower labor costs. Williams told members about bridging the gap in wages, an apparent reference to the first and second tiers. But he also said they're competing in a global economy.

Many at the convention spoke in favor of pay raises for veteran workers. Longtime UAW workers have not had an hourly pay raise since 2007, although they have dress pay raises in his speech, but has said in the past that there are ways to give raises and keep the companies competitive.

In his speech, he said workers shared in getting the auto companies through bad times and we must equally share in the good times.'

Contract talks with between Fiat Chrysler, GM, Ford and the UAW start this summer. The union represents about 137,000 workers at the three companies. The current contract expires in September.

This year's talks are the first to come after the auto industry fully recovered from the Great Recession, and could be contentious as the union seeks a slice of the industry's billions of dollars in profits.

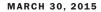
Auto companies, mindful of the recession, are reluctant to increase U.S. labor costs and once again be at a cost disadvantage to foreign companies. They actually want to reduce labor expenses, contending that their costs already have grown above competitors.

An analysis done by the Center for Automotive Research, a think tank based in Ann Arbor, Michigan, shows that to be true, at least for General Motors and Ford. GM's total hourly labor costs, including wages and benefits, total \$58 per hour, followed closely by Ford at \$57. Both are more than \$8 above Honda and Toyota, whose costs are below \$50 per hour, the analysis found. Chrysler, with costs totaling \$48 per hour, is below Honda and equal to Toyota, but higher than Nissan, Hyundai, BMW and VW, according to the analysis.











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BorgWarner Brings a New Two-Speed Fan to Market

BorgWarner's new DuroSpeed to engage repeatedly. BorgWarntwo-speed fan drive is hitting the market this May.

The system is specifically designed to deliver reliable cooling for severe operating and vocational truck applications such as construction vehicles and municipal trucks, said BorgWarner spokeswoman Erika Nielsen.

While on/off models provide superb durability and fuel efficiency for over-the-road applications, BorgWarner's DuroSpeed fan drive significantly reduces fan engagements for greater reliability and less noise in severe service applications, Nielsen said. The modular design allows any BorgWarner Kysor on/off fan drive to be easily converted to a DuroSpeed fan drive. BorgWarner will begin supplying this product in May 2015.

"Dump trucks, refuse haulers and other vocational applications experience severe service and have very different cooling needs than line haul trucks. At BorgWarner, our engineers listened to the voice of the customer to develop a simple, efficient design built for durability and serviceability," said Daniel Paterra, president and general manager, BorgWarner Thermal Systems. "Our testing shows the DuroSpeed fan drive's innovative flux ring design enables this clutch to run 70 degrees Fahrenheit cooler than competitive offerings. The cooler internal operating temperature increases bearing and liner durability, allowing nearly twice as many engagements over its lifetime.'

In severe-duty applications, on/off fan drives are continually engaging and disengaging. When disengaged, engine temperatures rise quickly, causing the clutch

er's pneumatically actuated DuroSpeed two-speed fan drive is designed with a higher disengaged fan speed to prevent engine temperatures from rising too quickly.

Because the fan drive engages and disengages less often, clutch life increases, noise decreases, dust buildup in the radiator is minimized and more horsepower is available, allowing the vehicle to achieve higher work output. Compared with competitive models, the DuroSpeed fan drive has no spinning air connections to wear, inspect or service, and is designed to operate at lower temperatures for longer bearing five to 10 pounds less, and using 11 fewer components than comparable units, BorgWarner's DuroSpeed fan drive also helps deliver better fuel economy, Nielsen said.

To reduce complexity and minimize upgrade costs, BorgWarner's modular design uses the same clutch unit for all applications. Any Kysor on/off fan drive can be easily retrofitted to a DuroSpeed fan drive with a conversion kit consisting of only two add-on components.

UAW-Ford Hosts Display of Art

DETROIT (AP) - The United Auto Workers union is hosting an exhibition of 90 artworks created by Ford Motor Co. employees across the country.

The inaugural "Art Collaborative" was on March 27 at the UAW-Ford National Program Center in Detroit. It featured works created by 44 hourly and salaried workers of Ford.



\$82,245, SRX \$38,600. Due at signing ATS \$3,059, ATS Coupe \$3,819, CTS \$4,109, XTS \$3,179, Escalade \$3,974, SRX \$1,729. See dealer for details. Take delivery by 3/31/2015.



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4G LTE WI-FI HOTSPOT, REAR

8 PASSENGER SEATING

REAR CAMERA, REAR PARI

ASSIST BLUETOOTH, COLOR

There

32 MPG (HIGHWAY), 4G LTE

WI-FI HOTSPOT, REAR CAMERA

COLOR TOUCH-SCREEN RADIO,

4G LTE WI-FI HOTSPOT, HEATED

REAR CAMERA, INTELLILINK RADIO

LEATHER SEATS, 259 HP TURBO ENGINE,

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