Tech Center News

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FEBRUARY 15, 2016

Cadillac's XT5 is All New From the Inside Out

The first-ever Cadillac XT5 will ing the Cadillac brand: it is bold, arrive in U.S. dealerships in early-April, continuing the brand's product-driven growth.

XT5 enters the strongest category in the luxury automotive space, the midsize luxury crossover segment, where Cadillac set sales records in 2015, said Cadillac spokesman Donny Nordlicht.

'The arrival of this sophisticated new crossover positions Cadillac well, as XT5 enters the most popular segment in the global luxury market," said Cadillac President Johan de Nysschen. "It's pivotal to our ongoing growth, which is why we've developed XT5 from the inside out to provide customers more space, more technology, more luxury and more efficiency.'

The XT5 is replacing the SRX and is the first in a series of upcoming luxury crossovers carrying the "XT" designation, a key aspect of the brand's productdriven global growth plan, de Nysschen said.

The new luxury crossover joins Cadillac's lineup immediately following the new range-topping CT6 Sedan, as the brand enters a new phase of product growth, de Nysschen said. The XT5 is the next chapter in elevat-

distinctive and sophisticated with enhanced driving dynamics. This new crossover perfectly reflects Cadillac's positioning in the luxury automotive marketplace, de Nysschen said.

The first-ever 2017 Cadillac XT5 crossover will be available in four trim levels, including a range-topping Platinum model, a first for Cadillac in this segment. XT5 Platinum includes unique interior and exterior trim and materials and combines them with the highest technology features.

Cadillac XT5 offers seven exterior colors and seven distinct interior environments, and a broad range of luxury amenities and high-technology systems - including Cadillac's award-winning, industry-first Rear Camera Mirror system on Platinum models.

XT5 pricing begins at \$38,995 (Manufacturer's Suggested Retail Price excludes destination - \$995 - tax, title, license, dealer fees and optional equipment; the highest level XT5 Platinum is priced from \$62,500. All-wheel drive is optional on Luxury and Premium Luxury models, and is standard on Platinum.

Customers can place orders for this vehicle now with dealers and view additional product in-



The new Cadillac XT5 crossover will be in dealership showrooms as soon as this April.

formation at the Web site cadillac.com, Nordlicht said.

In the U.S. market, the 2017 Cadillac XT5 will be powered by the new 3.6-liter V6 engine which recently debuted on the ATS and CTS sport sedans and is featured on the all-new CT6 flagship model.

With peak output of 310-horsepower and 270 lb.-ft. of torque, the new V6 uses variable valve timing for strong response and smooth power delivery, main-

taining optimum efficiency regardless of power demand.

This engine has been completely redesigned and features Active Fuel Management cylinder deactivation technology, which allows the engine to seamlessly and automatically switch to a fuel-saving 4-cylinder mode under low or moderate loads, Nordlicht said.

A new 8-speed automatic transmission is standard for the XT5, which also debuts Electronic Precision Shift - the first electronically controlled transmission shifter application in a Cadillac. The XT5 also features Stop/Start technology, which automatically stops and starts the engine when the vehicle is at rest in traffic stops, saving fuel and reducing emissions, while contributing to the serene character and tranquil cabin environment expected of a Cadillac.

CONTINUED ON PAGE 5

Cadillac Global Sales Show Recent Growth

Cadillac's global expansion continued in January, with total sales of 20,625 marking a 2.2 percent increase following the 7.5 percent growth of 2015.

Cadillac now enters a period of key product launches which are planned to further accelerate the sales and reinforce the rising stature of the brand, said Cadillac spokesman David Caldwell.

Cadillac launches the all-new CT6 flagship sedan in the first quarter of 2016, Caldwell said, followed closely by the first-ever XT5 luxury crossover which enmarket's ters the luxury strongest segment.

Cadillac's global expansion is building momentum, particularly now as we prepare to launch two all-new products," said Cadillac President Johan de Nysschen. "Newcomers to the brand continue to express surprise and delight at the dramatically elevated product substance in the new generation of Cadillac products, resulting in them selecting well-equipped, high-end models. This drives up transaction prices, a powerful proof-point underscoring the rapidly rising prestige of the Cadillac brand."



2016 Chevrolet Spark EV

Kelley Blue Book Declares **Detroit OEMs Give Value**

Kelley Blue Book's KBB.com siders every key criterion that



2016 Jeep Wrangler Unlimited



In January, Cadillac sales in China rose 16.2 percent, Caldwell said, following record high performance in 2015.

Sales in Canada and Mexico increased 44.6 percent and 21.2 percent, respectively, in January. The SRX Crossover tallied a 24.1 percent increase in January and the XTS rose 12.8 percent.

Caldwell said that according

CONTINUED ON PAGE 5

Web site has some nice things to say about the cost of owning vehicles produced by Detroit's automakers.

The site recently released its 2016 "Five-year Cost to Own" Awards list.

KBB editors wrote that even though the economy is supposed to be improving and fuel prices dropping, it's still important to keep transportation costs as low as possible.

KBB picked its vehicles, editors wrote, by calculating the amount it would cost to own each individual model on sale in the United States to the trim level over a typical five-year-long ownership period.

"That is a gargantuan task, but our data analysts do it willingly because the information can be so helpful to you." KBB editors wrote. "As you'd expect from Kelley Blue Book, our analysis con-

figures into the overall cost to obtain and operate a motor vehicle. Included among the factors are financing, insurance and state fees plus the anticipated costs of fuel, scheduled maintenance and repairs. Also included are the critical factors of purchase price - the exclusive Kelley Blue Book Fair Purchase Price - and projected depreciation, derived from our industrystandard residual-value analysis.

KBB broke down the award winners into 22 categories. The 2016 Chevrolet Impala won the "Best Full-Size Car" award. Editors stated that with "a Fair Purchase Price that starts well below its nearly \$28,000 Manufacturer's Standard Retail Price, the Chevrolet Impala achieves an impressive feat. It's handsome, quiet, massively roomy, and it drives like a car that belongs in a higher class.'

2016 Ford Focus ST

They also praised its 4-cylinder engine, saying a big car's job is to treat the driver well. "The 2016 Chevy Impala does that in first-class fashion, and it'll also keep you on the best terms with your financial planner."

The 2016 Ford Focus ST was the top finisher in the "Best Sporty Compact Car" category. Editors wrote that it "is the complete package. It looks fast, it actually is fast and in a boon for those who need to justify such a fun purchase, the Focus ST boasts a category-topping 5-Year Cost to Own figure."

The "Best Sports Car" award winner is the 2016 chevrolet Camaro. Editors wrote that when "shopping for a Chevrolet Camaro, fiscal responsibility might

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586-939-6800

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State Sees 'Tesla' **Dealership Bill** Reintroduced

HARTFORD, Conn. (AP) - The majority leader of the Connecticut Senate announced Feb. 9 he's resurrecting legislation that would allow Tesla and other electric vehicle manufacturers to sell cars directly to consumers.

Sen. Bob Duff said allowing customers to buy electric cars without leaving the state would benefit consumers and Connecticut's economy.

"We need to embrace companies that express a sincere desire to invest and create jobs in Connecticut," he said.

The Norwalk Democrat appeared at a news conference with Tesla representatives, who last year said they planned to resume efforts to pass legislation allowing them to open showrooms in Connecticut and sell vehicles directly to consumers. State law currently prevents manufacturers from selling directly to consumers.

Instead, they use dealerships, which Tesla does not utilize.

It's never too early to talk about the 2017 models. And that's what GM did at the recent Chicago auto show, when it debuted the 2017 Chevy Trax, which will go on sale this fall.

Building on its early success and the rapid growth of the segment, the 2017 Trax - a more expressive take on one of America's best-selling small SUVs, said Chevrolet spokeswoman Leslie Rajewski.

Contemporary design elements, including an all-new frontend appearance, and a new premium interior compose the visual updates, while new available active safety features and a new infotainment system - with available Apple CarPlay and Android Auto compatibility - expand its range of customer-focused technologies, said Steve Majoros, director of marketing, Chevrolet Cars and Crossovers..

"In the fastest-growing segment, Chevrolet Trax's momentum is sure to continue with great design enhancements, premium details, and the latest technologies," said Majoros. "Features such as Apple CarPlay and Android Auto compatibility and four new active safety features offer customers more than most competitors - and at an entrylevel price."

With sales of 63,303 in 2015 its first full year on the market the Trax quickly climbed to the second-best-selling small SUV in America, Rajewski said. It is also ranked in the top three globally, achieving more than 400,000 sales in 73 markets since its launch in late 2012. China and the United States are its top markets.

In the United States, more than half of Trax's customers with a trade-in turned in something other than a Chevrolet, Majoros

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GM's New 2017 Trax Gets Sneak Peak at Chicago Show

The 2017 Chevy Trax

said. Trax also attracts nearly 60 percent female customers - the highest percentage in the brand's entire lineup.

"With the Colorado and Trax, Chevrolet and our dealers are able to offer brand-new entries in fast-growing segments, which helps bring new customers to Chevrolet," said Majoros. "And with other new vehicles such as the Cruze Hatchback and Bolt EV, we will continue to attract new customers to the Chevrolet franchise and continue to grow market share, as we did in 2015.'

The 2017 Trax goes on sale this fall, offered in LS, LT and new Premier trims, Rajewski said.

The Trax's "fresh, contemporary" appearance, said Steve Kim, Chevrolet Trax designer, reflects the modern face of Chevrolet around the globe. A new grille and headlamps echo the styling elements seen in new Chevrolet models such as the Malibu, Cruze and Volt.

"It's a more sculptural, sophisticated design," said Kim. "There's also a sporty streak in the new styling that speaks to the Trax's agile, fun-to-drive personality." The front fascia is new. Kim said, and incorporates Chevrolet's new proportioned dual port grille. New, sleek headlamps flow around the corners and into the front fenders. Trax LS models feature new halogen reflector headlamps and uplevel LT and new Premier models have halogen projector headlamps with LED signature lighting. Chrome also accents the outboard fog lamp bezels.

At the rear is a new fascia and dual taillamps, with the Premier model featuring LED signature lighting. The Premier is also offered with new 18-inch aluminum wheels.

A modified instrument panel is the foundation for the 2017 Trax's premium interior enhancements, Kim said. It interprets Chevrolet's signature dual-cockpit design more expressively, with an upper dashboard hood that flows uninterrupted across the panel to enhance the perception of spaciousness.

The redesigned center instrument panel features greater visi-

bility of a new 7-inch-diagonal MyLink color touch screen and Galvano chrome trim on the instrument panel and console contribute to the Trax's premium ambiance, Kim said. Premier models are offered with contrasting-color instrument panel trim that matches their leatherette seating trim.

"Customers will really notice the elevation in the Trax's interior design and attention to detail." said Kim. "It's an environment that transcends segment boundaries, offering rich, premium appointments and seamless integration of the technologies they rely on most."

Also new for 2017 is the instrument cluster, which features a new gauge display with prominent analog speedometer and tachometer readouts along with digital displays from the standard driver information center.

The 2017 Trax offers a new 7inch diagonal infotainment system designed to support the latest connectivity technologies, including available Apple CarPlay and Android Auto compatibility and available 4G LTE with Wi-Fi hotspot.

With the 4G LTE connection, Trax allows passengers to connect up to seven personal devices such as smartphones, laptops and tablets, to high-speed wireless Internet. Keyless Open and Start also add to the Trax's roster of available new technologies.

New active safety features are designed to help alert drivers to potential crash situations. They are available depending on the model.



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Big Three Automakers Build Products that Offer Value

CONTINUED FROM PAGE 1

not be your first concern but maximizing your buying dollars still matters, if only to enrich your aftermarket accessory budget. To that end Chevy's famed coupe claims the lowest 5-Year Cost to Own title for the sports car category.'

The 2016 Ford Mustang GT won the "Best High Performance Car" category. Editors like it because "driving excitement and financial pragmatism need not be mutually exclusive. Holding down a near-\$1,200 advantage over the Camaro SS when it comes to 5-year ownership costs, the 2016 Mustang GT is among the rare breed of performance cars that lets you burn rubber without burning down your life savings.'

The 2016 Buick Verano finished tops in the "Best Entry-Level Luxury Car" category. Editors wrote, "although not the flashiest 4-door, the compact Verano continues to find favor thanks to its impressive mix of refinement, features and value. While an allnew generation is set to arrive for 2017, the largely carryover 2016 Verano gains some minor enhancements to help it remain competitive for one more season. The 2016 Chevy Spark EV won the "Best Plug-in Vehicle" award. Editors liked it because "this pure-electric 5-door/4-seat hatch boasts a starting price of just under \$26,000 before any incentives - a figure that can drop to near \$15,000 with all federal and state incentives applied." The 2016 Jeep Wranger Unlimited - just in time for the 75th anniversary of the Jeep – won the "Best Mid-Size SUV/Crossover" award. Editors liked it for it "being king of the hill both literally and figuratively, as an off-road icon that also reigns in terms of

low long-term ownership cost. Among the keys to its ability to stay atop the midsize SUV pack are the Jeep Wrangler Unlimited's approachable starting price of roughly \$28,000 and its remarkable resale value.

The Ford 2016 Explorer was tops in the "Best Full-Size SUV/Crossover." Editors wrote, "this marks the third year in a row that the Ford Explorer has received the 5-Year Cost to Own crown the Full-Size in SUV/Crossover segment, another testament to the consistency that is part of this Ford's DNA."

The Buick Encore won the Compact "Best Luxury SUV/Crossover" award. Editors noted that for a third straight year the Buick Encore "reigns as the 5-Year Cost to Own champ among entry-level luxury SUVs. Moreover, with a starting price of around \$25,000, Buick's smallest Enclave is in its eighth model year, yet it shows no sign of slowing down as 2016 marks the third year in a row it wins our 5-Year Cost to Own trophy for its class. Having always represented a solid value from the perspective of how much vehicle you get for your dollar - and we're not just talking about its prodigious size -- the Buick Enclave has withstood the test of time as a reliable and affordable to own luxury SUV." The 2016 Chevy Colorado Ex-

tended Cab took home the award for "Best Mid-Size Pickup Truck."

Editors liked it because it is a small truck that offers the ride interior amenities of and crossover, with best-in-class towing capacity and fuel economy.

The Ford 2016 F-150 Regular Cab won the "Best Full-Size Pickup Truck" award. Editors wrote that it "came onto the scene like a boxer prepared for a title fight: lighter, tougher and stronger. Its best-in-class towing and hauling limits reinforce its status as the most capable full-size truck, while EcoBoost turbocharged engines make the F-150 more fuel efficient. The result is that the F-Series continues to be the bestselling vehicle line in the country.'

The 2016 Dodge Grand Caravan Passenger won the "Best Minivan/Van" award. Editors stated that the "current version of the Dodge Grand Caravan has been around since the 2008 model year, but thanks to continuous improvements it remains a solid value. In fact, 'value' is the key term here, as the Grand Caravan is the lowest priced minivan...."



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vehicle continues to prove you don't have to spend a fortune to get into a premium crossover."

The 2016 Buick Enclave held up its end, winning the "Best Luxury Full-Size SUV/Crossover" award. Editors wrote, "the Buick

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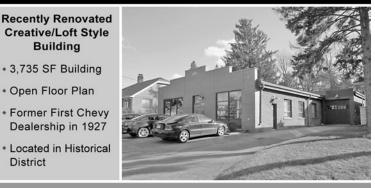


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COVERS THE TECH CENTER AND THE IMMEDIATE AREA

GM and Kelley Blue Book **Team Up to Sell Used Cars**

moving online, all parties, including automakers, dealers, online car-buying services and thirdparty sites, are playing a major role in shifting the traditional automotive industry to meet consumer demands for a simpler, easier car buying experience.

Kelley Blue Book recently worked with General Motors, said Kelley spokeswoman Brenna Robinson, to provide the Kelley Blue Book Fair Market Range to GM customers shopping the Fac-Pre-Owned Collection. torv which offers nationwide inventory of former GM companyowned, off-lease and daily rental Chevrolet, Buick, GMC or Cadillac vehicles.

The Kelley Blue Book Fair Market Range, Robinson said, reveals what a consumer can reasonably expect to pay this week in their area for a vehicle configured with similar specification and mileage, excluding tax, title and fees.

"Businesses today are focusing more and more on e-commerce and the auto industry is no exception, so it was a natural fit to work with GM to bring this valuable KBB.com tool to their dealers and consumers for pricing information," said Dan Ingle, vice president of valuations, industry solutions and international for Kelley Blue Book.

GM is the first automaker to of-

With car shopping increasingly handful of companies selling preowned vehicles online. After choosing a participating GM dealer, shoppers reserve their vehicle using the Shop-Click-Drive experience from GM, finalize their purchase and take delivery of the vehicle from the dealer they selected in their area.

"Our goal is to earn customers for life and we know many of them want to use the internet to save time and make the process of buying a used vehicle simpler and easier," said Steve Hill, vice president, GM U.S. Sales and Service. "The Factory Pre-Owned Collection extends our Shop-Click-Drive service and gives our dealers another way to attract new customers to their dealerships.'

"Based on the purchase habits of consumers today and the changing attitudes of consumers toward technology, auto retailers will need to continually evaluate how they attract and communicate with consumers," Ingle said. "By selecting a dealer of their choice and using trusted Kelley Blue Book values, now consumers can buy a used car with confidence and ease.'

"Many of our customers who are shopping for a used car have told us they want to complete more of the process online," said Jerry Morgan, executive manager of Jack Wilson Chevrolet and fer this online service and joins a Jack Wilson Buick GMC in Saint



GM's new pre-owned program is aimed at getting consumers early.

Augustine, Fla. "We are excited to be among the first dealerships to participate in the Factory Pre-Owned Collection.'

Online shoppers who use the Factory Pre-Owned Collection will follow three simple steps:

• Browse the inventory to find the vehicle of their choice.

• Choose a participating GM dealer and reserve their vehicle using the Shop-Click-Drive experience.

• Finalize their purchase and take delivery of their vehicle from their selected dealer.

These types of online services are changing the way consumers are shopping for and eventually purchasing cars, Hill said. There are several indicators predicting the future of vehicle shopping is veering online:

• Take the Paperwork Online: The 2015 Autotrader Car Buyer of the Future study found that nearly three-fourths of people surveyed would prefer to complete the credit application and financing paperwork by doing it online.

These results were attributed to 72 percent of people wanting to save time at the dealership, and 71 percent of people wanting less pressure while filling out paperwork.

• Online Deal Structuring: The same Autotrader study found that consumers would like to see a big change in the way they go about negotiating the deal structure of their vehicle purchase.

Of those surveyed who liked the idea of online deal building, more than half (56 percent) want the ability to start the negotiation on their own terms - preferably online - and 45 percent would like to remain anonymous until they lock in the deal structure.

Art Van Furniture Hosting Job Fair February 17

Warren-based Art Van Furniture hopes to hire up to 25 job applicatnts at a career fair scheduled for Wednesday, Feb. 17, from 11 a.m. to 6 p.m. at the company's corporate training center located on 6500 East 14 Mile Road in Warren.

Art Van spokeswoman Diane Charles said that individuals interested in working for the company should bring with them a copy of their resume.

Charles added that job fair attendees should be prepared to be interviewed for both full and part-time positions and that they should dress in the appropriate business attire.

The jobs are at Art Van's Warren and Lakeside stores, Charles said.

"For motivated sales professionals who want to work in a dynamic environment. Art Van Furniture offers and ideal career opportunity," said Gary Duncan, Art Van Furniture vice president of human resources. "Art Van Furniture's merchandise selection and reputation in the marketplace gives our sales associates a great foundation. When combined with their talent and commitent, the sky is the limit."

Full-time positions include paid training, full benefits with Blue Cross/Blue Shield, dental insurance, 401K and profit sharing. To learn more about the job fair go to jobs.artvan.com.



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Latina Style Names FCA Top **Employer for Latin Women**

Fiat Chrysler was recognized and performance. as the highest-ranking automaker on a list of the best companies for Hispanic women to work in the U.S. by LATINA Style magazine. FCA US ranked number nine on the annual LATINA Style 50 report, which evaluates and ranks the 50 best companies in the U.S.

LATINA Style magazine is considered the most influential publication reaching the contemporary Hispanic woman, said Fiat Chrysler spokeswoman Valerie Oehmke. The LATINA Style 50 Awards Ceremony and Diversity Leaders Conference was held in Washington, D.C. Accepting the honor on behalf of Fiat Chrysler was Mary Ann Capo, Dodge Product Marketing Senior Manager. Capo is the company's highestranking Latina. She received a special profile in the LATINA Style 50 Annual report.

The magazine editors wrote, "FCA US LLC is a North American automaker formerly known as, Chrysler group LLC. FCA's commitment to diversity is a longstanding and ingrained part of their culture. FCA's diversity of talents and perspectives allows the company to take visionary approaches, strategically apply new technologies and forge ahead in innovation

"FCA US LLC is passionate about finding diverse talent and creating lasting relationships with organizations who strive for success and for inspiring others. They are committed to leveraging the unique backgrounds of their employees and how it connects their company to their Latin culture, consumers and communities. They are proud to work with their Employee Resource Groups for talent development, mentoring, and recruitment. Latins in Connection (LinC), one of FCA's employee resource group has a mentoring program that matches its members with the company executives for guidance and leadership. LinC's goals are designed around four pillars: career, culture, community and commerce.

'Mary Ann Capó, Sr. Manager-Product Marketing, Dodge Brand is FCA's highest-ranking Latina. Capó is responsible for establishing and executing product and marketing strategy for Dodge Durango, Journey, Grand Caravan and future family vehicles. Capó is Cuban-American, born in Detroit, Michigan and raised in Rochester Hills, Michigan. Capó has worked at FCA US (previously Chrysler Group) for 15 years in



Mary Ann Capo

U.S., Latin America and Asia-Pacific markets.'

This is the 12th time that Fiat Chrysler has earned a top position on the LATINA Style 50 report since it was established in 1997, Oehmke said. The report analyzes company efforts for promoting diversity and career advancement opportunities for Hispanic women.

'We are honored by the recognition from LATINA Style magazine. Diverse talent in the workplace is essential for innovation, growth and success," said Marlin

MICHIGAN

diverse marketing roles for the Page, Diversity and Inclusion Officer, FCA US. "Encouraging diversity helps our company thrive, while producing headturning products that reflect our customer base.'

> LATINA Style Inc., headquartered in Falls Church, Va., and with offices in Dallas, is the publisher of LATINA Style magazine, a national magazine for the professional Hispanic woman, Oehmke said. The magazine has been published for 21 years and has a national circulation of 150,000 and a readership of nearly 600,000.

Ford's European **Sales Driven by Strong Demand**

Driven by strong demand across its vehicle range – including SUVs, commercial vehicle and performance cars - Ford's total vehicle sales and market share in Europe continued to grow in January.

For total vehicle and passenger car sales, it was the best January for Ford since 2012, selling 96,900 vehicles in its 20 traditional European markets, said Ford spokesman Adrian Schmitz. This was almost a 10 percent increase compared with January 2015, and about 3 percentage points better than industry growth. Ford market share increased by 0.2 percentage points to 7.9 percent.

Across all of its 50 European markets, Schmitz said that Ford sold a total of 105,200 vehicles up nearly 9 percent vs an industry growth of just 3 percent and driving Ford's market share up 0.4 of a percentage point to 7.6 percent.

"The European auto industry is off to a very strong start and Ford was able to outpace this growth thanks largely to demand for our SUVs, commercial vehicles and performance vehicles," said Roelant de Waard, vice president, Marketing, Sales and Service, Ford of Europe. "Importantly, we gained share by selling to retail customers while many others in industry are using self-registration and rentals sales extensively."

Ford's sales in higher value sales channels were markedly up in January. Retail and fleet sales accounted for 81 percent of Ford's car sales in January - 3 percentage points better than in the same month last year and 11 percentage points better than the industry average.

Karmanos Cancer Institute, GM Hold Fundraiser

The Barbara Ann Karmanos Cancer Institute is celebrating its 34th Annual Dinner Saturday, April 16, at Michigan Motion Picture Studios in Pontiac.

This year's Annual Dinner Chairs are Paula and Steve Kiefer. Steve Kiefer is vice president, Global Purchasing and Supply Chain for General Motors.

This event continues the partnership between GM and the Karmanos Cancer Institute, raising critical funds to benefit canresearch at the worldcer renowned cancer center based in Detroit, said event spokeswoman Patricia Ellis.

The dinner will start at 6:30 p.m. and go to midnight. Michigan Motion Pictures Studio is at 1999 Centerpoint Parkway in

Macomb Community College is offering the following courses free of charge:

Metallurgy for the Non-metallurgist – March 14 – 17, 2016

Upon completion, you should be able to: Describe how metals behave and why, including why and how they can be formed; recognize how metals properties can be modified through alloying, cold-working, and heat treatment; determine why metals and alloys may not perform as expected and can be made to behave as needed; and choose what metal or alloy to use for specific combinations of properties.

Aluminum and its Alloys – March 28 – 30, 2016

Upon completion of this course, you should be able to: Identify aluminum alloys suited to specific applications; describe key processing parameters that influence structure - property relationships; identify composition and processing interactions that result in final material properties; solve routine processing and heat-treating issues; and identify cost-reduction opportunities that do not negatively impact material and product performance.

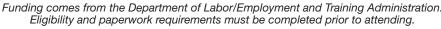
Class size is limited and will be filled on a first come, first served basis.

Please contact Charles Cammarata at (586)445-7425 or cammaratac00@macomb.edu for more information or to register.









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Pontiac

The dinner will be a black tie event and include a cocktail reception, an elegant seated dinner, brief program, entertainment, a raffle and a live auction.

Ellis said WDIV-TV Local 4's Hank Winchester, head of the "Help Me Hank" consumer reporting unit, will serve as emcee for the gala.

The event supports critical cancer research underway at Karmanos which will help create the next standard of cancer care benefitting patients here and around the globe, Ellis said.

Benefactor tickets are \$750 and Patron tickets are \$525. For more information and to reserve tickets, contact Kelly at 313-576-8108 or smileyk@karmanos.org. You may also visit www.karmanos.org/annualdinner.

Companies or individuals interested in sponsorship opportunities should contact Lisa at 313-576-8106 or send an email to laurinl@karmanos.org.

Oakland University Drone Team Wins \$1 Million

The Oakland University team and their Loon Copter drone won the \$1 million international award in the United Arab Emirates (UAE) Drones for Good competition.

The competition, according to its website, is "dedicated to transforming the innovative technologies behind civilian drones into practical, realizable solutions for improving people's lives today."

"As a doctoral research university, we are committed to research and innovation at Oakland as an integral part of our mission, and the recognition received for innovation through the high-profile work of our faculty and students speaks to the high quality and impact of our research," said James Lentini, senior vice president for Academic Affairs and Provost.

The Oakland team was one of 10 international semifinalists in the 2016 United Arab Emirates Drones for Good competition, Lentini said. The competition, was set held from Feb. 4-6, received 1,017 entries from 165 countries.

The drone, called the Loon Copter, is unique, Lentini said, because it is capable of traditional aerial flight, on-water surface operation and aquatic diving and navigation. It was built in Oakland's Embedded Systems Research Laboratory by a team comprised of students from various academic levels, and led by Associate Professor Osamah Rawashdeh, Ph.D.

"It's pretty much the first

working demonstration of a vehicle of its kind," said Rawashdeh. "This new technology has benefits that you couldn't get from other individual vehicles in the past. It can perform autonomous navigation, follow GPS waypoints or give you an overview like a drone would. The Loon copter is designed to be a rapidly deployable, low-cost vehicle that could replace both drones and underwater vehicles."

Rawashdeh said that the combination of concepts used in drones and submarines allows for potential new possibilities that include underwater searching, environmental monitoring and both above and underwater structure inspection.

The Loon Copter is not the first underwater drone, but it is the first multi-rotor drone capable of filling its buoyancy chamber to sink underwater, tilt 90 degrees and move around beneath the water's surface. It can resurface and take flight again by emptying its ballast chamber of water and floating above the surface.

Team member Hamzeh Alzubi, who is working on his doctorate in Systems Engineering, said by controlling the ballast pressure of the vehicle, the drone can be vertically or horizontally stabilized underwater without wasting much energy. "We use the instability to stabilize the vehicle."

The Drones for Good competition, now in its second year, was launched by the United Arab Emirates government during a summit in 2014.



2016 Cadillac SRX

Cadillac Global Sales See Increase

CONTINUED FROM PAGE 1

to J.D. Power, the average transaction price of a new Cadillac topped \$55,000 in the U.S. in January, highest among full-line luxury brands.

Strong demand in the domestic market has driven inventories lower as the brand prepares to launch two new product lines in the first quarter of 2016. well said, enables Cadillac to be well positioned to exploit the strong global demand for midsize luxury crossover vehicles.

Cadillac's XT5 Ready for April Launch

tor unch CERTIFIED SERVICE



Cadillac's global sales by product line:

• ATS - Jan. 16, 3,895, Jan. 15 4,131. 5.7 decline.

• CTS - Jan. 16, 1,261, Jan. 15 1,909. 33.9 percent decline.

• ELR - Jan. 16, 68, Jan. 15 96. 29.2 percent decline.

• Escalade - Jan. 16, 2,492; Jan. 15, 3,232. 22.9 percent decline.

• SRX - Jan. 16, 7,876; Jan. 15, 6,344. 24.1 percent increase.

• XTS - Jan. 16, 5,033; Jan. 15, 4,461. 12.8 percent increase.

Total sales for January of 2016 was 20,625 compared to 20,173. That is an increase of 2.2 percent.

Production of the new CT6 in the historic Detroit-Hamtramck Assembly Plant commences in February, establishing a new top of the Cadillac range. Concurrently, the first-ever XT5 is being prepared for production at a newly commissioned line in Spring Hill, Tenn.

The arrival of this "sophisticated" new crossover entry, CaldAn optional new advanced "twin clutch" all-wheel drive system continuously and automatically delivers excellent traction across a variety of conditions. Due to the twin clutch design, the AWD system is capable of transferring up to 100 percent of available torque to either the front or rear axle. Also, across the rear axle, the electronically controlled rear differential can direct up to 100 percent of available torque to either wheel laterally.

This capability is designed for "split-coefficient" surfaces, such as when there is more water, ice or snow on one side of the road surface than the other, Nordlicht said. The AWD system is drivercontrolled, and includes a new "disconnect" feature that disables the rear drive unit for improved fuel efficiency and reduced emissions.

The 2017 XT5 will be built at the Spring Hill, Tenn. assembly facility outside of Nashville.



OPEN SATURDAY 9AM-2PM



*Tax, title, license and dealer fees extra. No security deposit required. 30,000 miles with approved lease. Mileage charge of \$.25 per mile over 30,000 miles. Lessee pays for excess wear and tear charges. All applicable rebates to dealer. Photo may not represent actual vehicle. ATS Coupe/Sedan, SRX & XTS must show proof of current GM Lease. CTS must show proof of ownership or lease of 2003 or newer Cadillac CTX. MRSPs: ATS \$38,240, ATS Coupe \$41,440, CTS \$48,340, XTS \$45,595, Escalade \$82,245, SRX \$38,600. Due at signing ATS \$1,809, ATS Coupe \$2,219, CTS \$3,119, XTS \$2,679, Escalade \$4,869, SRX \$1250 Stock #533587 GMS and Loyalty required – this payment is net of taxes. All rebates to dealer. See dealer for details. Take delivery by 2/29/2016.

TECH CENTER NEWS - WARREN

🕊 Wally Edgar



*Lease payment examples at GM Employee Discount Price plus tax. First month payment, except for Malibu and Cruze, Title, plate and doc fees due at signing with all rebates including GM competitive lease conquest pri-vate offer (customer's qualifying competitive lease must have a scheduled end date within 365 days of the de-livery date of the new vehicle)assigned to dealer. Zero security deposit. Lessee responsible for excess wear and tear as well as exceeded contracted mileage. Due to advertising deadlines, prices subject to change. See dealer for details.

Feds Ponder Rules for Autonomous Cars

DETROIT (AP) - Computers that control cars of the future can be considered drivers just like humans, the federal government's highway safety agency has decided.

The redefinition of "driver" by the National Highway Traffic Safety Administration is an important break for Google, which is developing self-driving cars that get around without steering wheels, pedals - or even the need for a person to be inside.

Though treating a computer like a driver for regulatory purposes helps Google, its cars have miles to go before they get on the road in great numbers. While the safety agency agreed with Google's "driver" reinterpretation in a recent letter, it didn't allow other concessions and said numerous federal rules would have to be changed to permit the cars.

Google, a subsidiary of Alphabet Inc., is testing dozens of prototypes in California, Texas and Washington.

The company has suggested these types of vehicles could be ready for the public in a few years.

In written requests over the past three months, Google asked the safety agency to interpret federal code in ways that would ease the path to market for its cars.

The agency agreed that the car can be a driver but, in a Feb. 4 response posted on its website, also rejected the company's claim that the cars comply with many related regulations including requirements for foot or hand brakes.

Google said the requirement wasn't necessary because the electronic driver can stop the cars. The government said regulations are clear and would have to be changed to allow that.

"In a number of instances, it may be possible for Google to show that certain (federal) standards are unnecessary for a particular vehicle design," Paul Hemmersbaugh, the highway traffic safety agency's chief counsel, wrote. "To date, however, Google has not made such a showing.

To put their cars on the road, automakers must self-certify that they meet federal safety standards and get approval from the traffic safety agency.

Hemmersbaugh's letter encouraged Google to apply for exemptions to the federal standards.

It also said for some requests, the agency will have to go through the cumbersome federal rule-making process to approve the cars.

Adding a note of skepticism for Google's design, in which human control would be limited to a start and stop button, Hemmersbaugh wrote the company, might "wish to reconsider its view that a pedal may never be needed in any circumstance, and that there is not a risk of harm associated with a pedal's absence.'

Google spokesman Johnny Luu said the company had no comment beyond that it was reviewing the agency's response.

After several years of caution, federal regulators said last month that they wanted to help speed the widespread adoption of self-driving cars if they prove to be safe.

In January at the Detroit auto show, Transportation Secretary Anthony Foxx said his depart-

ment wants to get self-driving cars on the road quickly and will fast-track policies and possibly even waive regulations to make that happen.

Self-driving vehicles could eventually cut traffic deaths, decrease highway congestion and improve the environment, Foxx said. He encouraged automakers to come to the government with ideas about how to speed their development.

He also said the safety agency, which is part of his department, will oversee development of guidance for automakers on what's expected of self-driving car prototypes and what sort of tests should be used to make sure they are safe.

That policy could eventually lead to consistent national regulations for autonomous cars. Right now, individual states like California, Florida and Nevada have their own regulations.

Safety advocates worry the agency is getting too cozy with the auto industry when it comes to technology regulations.

On Feb. 10, Foxx called the government's reinterpretation of driver "significant," but added in a written statement that "the burden remains on self-driving car manufacturers to prove that their vehicles meet rigorous federal safety standards.'

The federal government isn't predicting when autonomous cars will be on public roads in big numbers, but some automakers have said they could be in use in limited areas by 2020 - and Google has been more bullish than that.

Honda Recalls 2016 Civics

DETROIT (AP) - Honda is recalling about 45,000 newly redesigned Civic compact cars in the U.S. and Canada because the

stalled at the factory.

piston to rub against the engine block and possibly cause engine failure or a fire.

It was unclear if any crashes, fires or injuries had happened as

Dealers will inspect the piston clips and fix them if necessary. In the United States, dealers can't sell the affected cars until they

The recall covers about 34,000 Civics in the United States and roughly 11,000 vehicles currently





Chevy Goes 'Midnight Black'

Chevrolet has spoken. Black is the new black.

Chevrolet is expanding the popular Midnight Special Edition with new models available on 2016 Silverado 1500 Z71 and 2016 Colorado Z71. They join a growing portfolio of special-edition trucks whose popularity helped Chevrolet truck sales increase 27 percent last year - double the increase for the total truck market.

"We introduced several special-edition trucks in 2015 – each combining equipment and appearance packages designed for specific enthusiasts in mind,' said Sandor Piszar, Chevrolet truck marketing director. "They clearly resonated with buyers, as the special editions sold in onethird the time, and to younger, more affluent buyers than the industry average.

"The Silverado 1500 Midnight was by far the most popular model in 2015 as demand outstripped supply in a matter of months. It only made sense to expand our special-edition offerings for 2016, including new Midnight editions."

These editions hit the showroom this spring, said Chevy spokesman Monte Doran.

With the addition of the Silverado 2500 HD Z71 which was introduced in September, customers now can select from midsize, light-duty and heavy duty Midnight editions. Each combines off-road equipment and monochromatic details, such as:

- Off-road suspension;
- Locking rear differential;
- Transfer case shield;
- Hill Descent Control;

 Aggressive Goodyear Wrangler Duratrac all-terrain tires;

• Black side moldings and beltline moldings;

· Black painted alloy wheels; • Special Z71 badges on the doors;

• All-black front end with body-colored grille, bumper, headlamp bezels, tow hooks and fog lamps;

• A spray-in bedliner (black, of course);

• And black Chevrolet bowties for the front and rear.

Other special-editions available for 2016 include the Silverado Realtree, Silverado Special Ops, and Colorado Trail Boss, with additional models to be announced later this year.

"Each special edition is tailormade to fit a specific customer whether you are an off-road enthusiast who wants a Colorado or a hunting enthusiast who wants a unique Silverado," said Piszar. "In addition, each special edition is designed to attract attention at the dealership and in the customer's driveway.



DETROIT (AP) - Toyota's youth-oriented Scion brand is recalling about 28,000 FR-S sports cars in North America because drivers can take the keys out of the ignition without the car being in park.

The recall covers cars with automatic transmissions from the 2013 through 2016 model years.

Toyota says in some cases, the mechanism that holds the key until the ignition unless the cars are in park may not have been connected before delivery. That makes it possible to remove the key while the cars are in gear, which could increase the risk of cars rolling away unexpectedly.

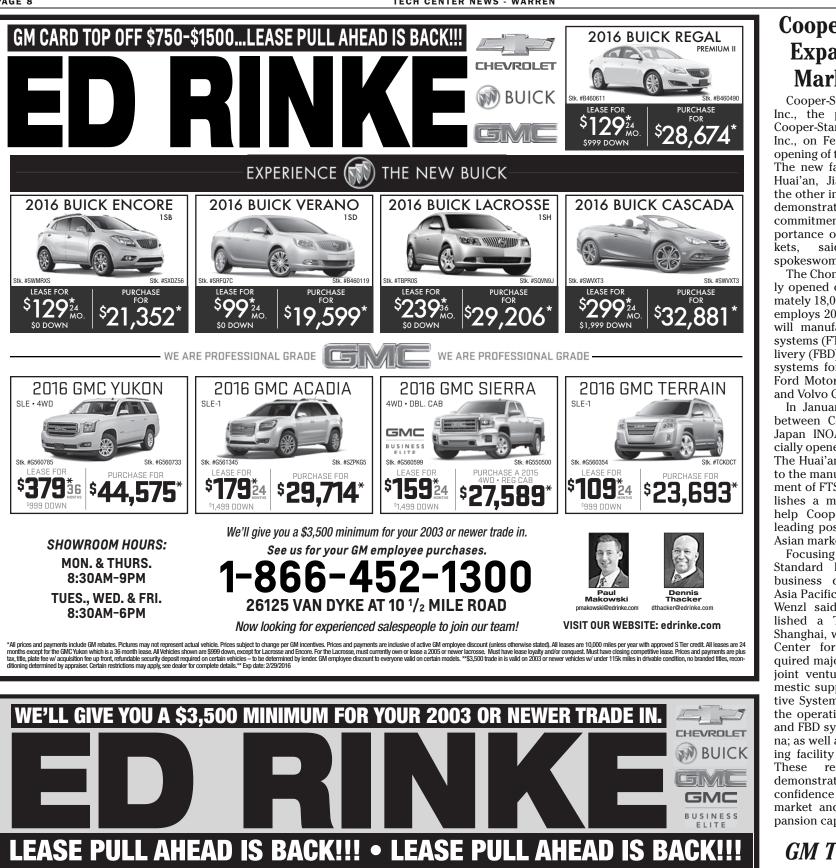
Toyota wouldn't say if the problem has caused any crashes or injuries. The company says dealers will check the key lock mechanism. If it doesn't work, they'll activate it.







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Cooper-Standard Expands Asian Market Reach

Cooper-Standard Holdings Inc., the parent Company of Automotive Cooper-Standard Inc., on Feb. 2 had the official opening of two facilities in China. The new facilities - one in the Huai'an, Jiangsu province and the other in Chongqing – further demonstrate Cooper Standard's commitment to the strategic importance of China and its marsaid Cooper-Standard spokeswoman Sharon Wenzl.

The Chongqing facility, officially opened on Feb. 1, is approximately 18,000-square-meters and employs 200 people. The facility will manufacture fluid transfer systems (FTS), fuel and brake delivery (FBD) systems and sealing systems for customers such as Ford Motor Co., Mercedes-Benz and Volvo Car Group.

In January, the joint venture between Cooper Standard and Japan INOAC Corporation officially opened in Huai'an, Jiangsu. The Huai'an facility is dedicated to the manufacture and development of FTS products and establishes a manufacturing hub to help Cooper Standard earn a leading position in Chinese and Asian markets.

Focusing on China, Cooper Standard has accelerated its business development in the Asia Pacific area in recent years, Wenzl said. It recently: established a Technical Center in Shanghai, which includes a Test Center for FTS products; acquired majority ownership of its joint venture with Chinese domestic supplier, Huayu Automotive Systems Co. Ltd; expanded the operational scale of its FTS and FBD systems in Eastern China; as well as opened a new sealing facility in Northeast China. These recent achievements demonstrate Cooper Standard's confidence in the Chinese auto market and the company's expansion capabilities, Wenzl said.

GM Tech Center Attack Seems Domestic Issue

WARREN, Mich. (AP) - Officials say a woman has been wounded in a stabbing at General Motors' technical center in Warren on Feb. 10.

Mayor Jim Fouts told WWJ-AM and WJBK-TV that a woman walked into a visitor's area at the complex on the morning of Feb. 10 and asked for a worker by name. Fouts says the women walked outside and the visitor stabbed the worker several times.

The valet supervisor, Didarul Sarder, who pulled out his handgun as he saw a woman being stabbed at General Motors' is

- NO APPOINTMENTS NECESSARY FOR OIL CHANGES -



credited with stopping the knife attack.

Didarul Sarder told The Detroit News: "My first reaction was to try to save this woman's life."

Authorities say a 32-year-old woman walked into a visitor's area Feb. 10 and asked for her 52-year-old mother. They walked outside and the woman stabbed her mother multiple times.

Sarder, who has a license to carry a concealed weapon, says he unholstered his gun and told the woman to drop the knife. She did and he called 911.

The victim was hospitalized in critical condition.

Fouts told the Detroit Free Press that the mother was hugging the daughter and the daughter started stabbing her mother in the back.

The mother, Fouts told the Free Press, helps the daughter raise the daughter's children ages 11 and 12, and that authorities think the daughter has mental issues.