Detroit Auto Scene

"FIRST IN THE HEART OF DETROIT"

VOL. 86 NO. 12

APRIL 2, 2018



Employees move part of a Ram truck hood at Warren Stamping Plant.

WSP is First North America Stamping Plant to Earn Silver

Talk about a silver lining.

The FCA US Warren Stamping Plant (WSP) is celebrating after being honored with a silver award in FCA's World Class Manufacturing (WCM) methodology.

This is the seventh North American plant to earn such a designation, said FCA spokeswoman Jodi Tinson. The plant was recognized for its efforts in expanding WCM throughout the facility.

The 70-year-old Warren, Michigan, plant earned the milestone award following a two-day audit

during which it earned a minimum of 60 points in 10 technical and 10 managerial pillars, Tinson said. To become the first North American stamping plant to receive silver, WSP employees had to demonstrate clear WCM knowhow and competence through employee-conducted pillar presentations and a review of projects that have been expanded across the shop floor.

WCM, a methodology that focuses on eliminating waste, in-

CONTINUED ON PAGE 4

Batey: 'Recognition from J.D. Power Shows Chevrolet's Strength and Momentum'

Chevrolet was named J.D. Power's most awarded brand of 2017 at the J.D. Power Automotive Summit held before the National Auto Dealers Association Convention

Six different Chevrolet cars, trucks and SUVs won nine awards in J.D. Power's 2017 Vehicle Dependability, Initial Quality and APEAL Studies.

GM spokeswoman Lauren Langille said that according to J.D. Power, "These awards highlight the automotive brands that are continually exceeding customer expectations and leading the way in terms of dependability, quality and overall customer satisfaction."

"Chevrolet is winning with consumers because our designers, engineers and dealers are focused on delivering great products and a great ownership experience," said Alan Batey, president of GM North America and brand chief of Global Chevrolet.

This recognition from J.D. Power Chevrolet's shows strength and underscores the momentum we have across the board."

Langille said that the Vehicle Dependability Study examines issues reported by original owners of 3-year-old vehicles to deter-

mine which cars are the most re- (APEAL) measures owners' emoliable, Langille said. Chevys in this category are the Chevrolet Camaro, Sonic, Chevrolet Chevrolet Tahoe and Chevrolet Silverado HD

Initial Quality Study measures problems experienced during the first 90 days of ownership, Langille said. Chevys that placed in this category are the Chevrolet Silverado, Chevrolet Silverado HD and Chevrolet Sonic.

The Automotive Performance, Execution and Layout Study

tional attachment and level of excitement across several attributes. Vehicles that were in this category are the Chevrolet Bolt and Chevrolet Tahoe.

Chevrolet and its dealers also earned high marks among massmarket brands in two other influential studies - the 2018 J.D. Power Customer Service Index (CSI) Study, which measures customer satisfaction with maintenance or repair work among

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The 2019 Silverado HD earned "most reliable" grades from J.D. Power.

Sometimes It Takes Two Kids, Not a Village

mouths of babes oft times come gems.

And a couple of kids recently had a gem of an idea that could one day help save billions of liters of water, said Ford spokeswoman Monika Wagener.

Instead of simply wiping raindrops off our car windshields, why not collect and reuse the water via the washer jets? As another saying goes, an idea so simple a child could come up with it.

Brother and sister Daniel and Lara Krohn were traveling in the family car last summer when the heavens opened, Wagener said.

As the saying goes, out of the But when their dad Gerd, who was driving, tried to clear away the smears, the reservoir was empty – and the windshield just got dirtier and dirtier.

The two kids' idea to capture the raindrops and reuse them won first prize in a local science competition and has now been developed for a full-sized test car, Wagener said.

"It was a downpour. There was water everywhere – except in the windscreen wiper reservoir. My sister and I thought this was really funny and then the answer suddenly seemed obvious. Simply reuse the rainwater," said 11year-old Daniel, from Jülich, in Germany.

"We couldn't believe that noone had thought of it before," added 9-year-old Lara. "To try it out, we took apart our toy fire engine and fixed the pump to a model car inside an aquarium. Then we added a filtering system to ensure the water was clean. It just worked really well.'

Engineers at Ford who heard about the idea were so intrigued that they offered to install a fullsized device into a Ford S-MAX test car,Wagener said. To collect





Future engineers? Daniel, 11, and Lara, 9, solved rainy windshield issue.

Play Ball! ... And See Chevy Exhibit Atop 'The Fountain' Spring is officially here and it's fountain at the home of the Detroit Tigers," said Paul Edwards, the beginning of Major League U.S. vice president, Chevrolet Baseball, which is good news for fans of Chevrolet and the Detroit Marketing. Tigers. "This year, we have chosen to Chevy and the Tigers have display the all-new Traverse High gotten ready for Major League Country and the Colorado ZR2 because they are among the Baseball's Opening Day by placing this year's showcase vehicles most versatile and capable vehiatop the fountain at Comerica cles in the Chevrolet lineup and we know that they are tough Park, said GM spokeswoman Afaf Farah. enough to withstand the unpre-A new 2018 Traverse High dictable Michigan weather." Country and a 2018 Colorado "The Chevrolet Fountain at ZR2 will sit high above the Comerica Park is a significant representation of the robust and Chevrolet Fountain behind center field for the coming baseball valuable partnership we hold with Chevrolet," said Steve season, Farah said, Chevrolet has sponsored the fountain -Harms, Tigers vice president of which features an array of water corporate partnerships. displays and the sound of a tiger "Recognizable throughout growling after each Detroit home Michigan and Major League Baseball, the fountain is somerun – for the last nine seasons. "We are proud to continue the thing we are proud to display.



Days before Opening Day, these two Chevy models are set to be moved to above Comerica Park's fountain.

tradition of showcasing Chevrolet vehicles in the center field

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J.D.Power Cites Chevrolet for Dependability

CONTINUED FROM PAGE 1

owners and lessees of 1- to 3-year-old vehicles, and the 2017 Sales Satisfaction Index Study, which measures customers' new vehicle purchase experiences from product presentation to final deliverv

Each survey includes feedback from 28,000 to more than 70,000 customers.

"Chevrolet's relentless drive to improve all aspects of the vehicle ownership experience has made the brand GM's most powerful growth engine," Batey said.

The brand delivered yearover-year retail market share increases in 2015, 2016 and 2017 up 1 point overall since 2014, Langille said.

Led by Chevrolet, GM has delivered four consecutive years of pickup sales leadership of midand large-size trucks through 2017, thanks to its three-truck strategy.

When it comes to style, someblack aluminum wheels, dark-

times black is the new black. GMC is expanding offerings for its premium SUV lineup with the 2019 Terrain and Acadia Black Editions. Both build on the bold road presence that already defines the popular SUVs with sculpted, athletic appearances, said GM spokesman Fred Ligouri.

The Black Editions are distinguished by darkened exterior treatments, adding more choices to lineups that also include colormatched, chromed and unique Denali appearances. The design advances GMC's legacy of precision craftsmanship and answers customers' calls for greater vehicle personalization. Ligouri said.

Internal sales data shows that roughly one in five new SUV buyers spends additional money after purchase to personalize their new vehicle's appearance, Ligouri said. Black Editions answer the specific desire for a blacked-out effect and come direct from the factory ingrained with distinct personality.

"The new Terrain and Acadia Black Editions perfectly capture the identity of the GMC brand by offering a bold and confident exterior appearance," said Duncan Aldred, vice president of Global GMC.

"They give our customers more choices within the premium SUV segment to distinguish their vehicle and themselves."

The new special editions add momentum to a brand that saw its best sales in 12 years in 2017, along with strong volume gains in early 2018. GMC crossovers were up 19 percent in February alone, with the Terrain posting a 17 percent year-over-year increase, and the Acadia was up 22 percent, Aldred said.

The Terrain Black Edition (available on SLE & SLT) package content includes 19-inch gloss ened grille insert and black surround, black mirror caps, roof rails and additional exterior accents, black exterior model and trim badging.

It will be offered in five exterior colors. They are Ebony Twilight Metallic, Summit White, Graphite Gray Metallic, Satin Steel Metallic and, new for 2019, Sedona Metallic.

The Acadia Black Edition (available on SLT) package content includes 20-inch machined aluminum wheels with black accents, black grille insert and black surround, black headlamp and taillamp details, black mirror caps, roof rails and additional exterior accents.

It will be offered in five exterior colors. They are Ebony Twilight Metallic, Summit White, White

DETROIT (AP) - A Detroit-

based foundation and the Massa-

chusetts Institute of Technology

are collaborating in a competi-

tion that funds entrepreneurs

who use technology to provide

low- and moderate-income earn-

ers with skills needed for an

evolving job market, officials an-

dation is the major sponsor of

the North America region of the

MIT Inclusive Innovation Chal-

The 2-year-old competition is

expanding, holding regionals in

North America, Latin America,

Four regional champions from

during

а

the United States and Canada

will receive \$20,000 each and

Europe. Africa and Asia.

recognized

The Ralph C. Wilson Jr. Foun-

Associated Press

nounced March 15.

lenge.

be

September ceremony in Detroit. The Ralph C. Wilson Jr. Foundation provided a \$300,000 grant for the North America competition and also is helping develop the Detroit event.

light entrepreneurs who are trying to reinvent the future of work . . . providing opportunities for workers to transition to new types of jobs," said Lavea Brachman, the foundation's vice president of programs.

The foundation supports pro-Buffalo Bills. Ralph Wilson was 2014.

The 2019 Terrain and Acadia Black Editions will be available this summer.

Entrepreneurs to Compete to Reshape Jobs by COREY WILLIAMS

Frost Tricoat and, new for 2019,

Dark Sky Metallic and Smokey

Quartz Metallic.

tive.'

"It's an opportunity to spot-

grams in southeastern Michigan and western New York. It is named after the founder of the 95 when he died at his home in Grosse Pointe Shores, Mich., in

Locally, entrepreneurs and nonprofits in Detroit and southeast Michigan are encouraged to apply, said Brachman, adding,

"and we're hoping that those who apply from southeast Michigan will be very competi-

"Detroit is a place in transition," Brachman said. "There are traditional industries, but innovation is happening in terms of technology."

Twelve finalists selected from the North America region will get a chance to pitch their plans to a panel of judges at the Detroit event.

"What we're trying to do is to be constructive, but also optimistic and really shine a light on Detroit as the host city," said Susan Young, a MIT Inclusive Innovation Challenge producer.

The competition also identifies, celebrates and awards organizations, businesses and entrepreneurs who "are reshaping the future of work," Young said.

at jkelly2@suburbancollection.com with any questions.

*Plus \$210 DOC fee, tax, plate and title fees





2019 GMC Acadia Black Edition

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Detroit Auto Scene

"FIRST IN THE HEART OF DETROIT SINCE 1933"

APRIL 2, 2018

Sixth Graders Learn About Fluid Power of Lifting

by Jim Stickford

The need for students to get into the field of fluid power is real, which is why David Hone, president of Master Pneumatic of Sterling Heights, started the National Fluid Power Action Challenge (NFPAC).

Hone said he got the idea for the event about six years ago, and this year's contest, which took place at the Warren campus of Macomb Community College on March 27, is the fourth year of the contest.

Hone is a member of the board of the National Fluid Power Association. Part of the organization's job is to raise awareness of the importance of fluid power in American industry and help attract people to the discipline.

One of the association initiatives is workforce development," Hone said. "So we target younger students in middle school and high school.

We donate to schools of higher learning so they can have fluid power departments. That's what we did for MCC.'

NFPAC is a competition among students of the Warren Consolidated Schools' Middle School Math & Science Technology Center program, said Tari Michaelson, a science teacher in the program. Its students come from four middle schools in the Warren Consolidated School System.

To be a part of the program, they have to be "tested" in. They spend part of their day at their regular schools and then spend the other part at NFPAC's classrooms.

"The program is in its fifth year," Michaelson said. "I teach physical science. That's basically the study of forces in motion and energy transfer - basic physics.

"Each grade has a different genre of science and the sixth graders study physical science,

Brycz Earns VP **Position in GM** Human Resources

General Motors earlier this month named Kimberly Brycz as senior vice president, Global Human Resources.

Brycz, who has served as executive director of Global Product Purchasing since 2013, succeeds Jose Tomas, who left GM to pursue other interests. Brycz's appointment is effective

so it's sixth graders who participate in this contest."

Those who participate in the NFPAC contest work on their projects for about six or seven weeks. The annual event is held in late March, Hone said.

Students are formed into teams of three or four and given a project assignment in early February, where they are given materials and have to design on paper a lifter device. These devices use simple fluid hydraulics to pick up other items.

The thing to remember about the assignment, Michaelson said, is that the contest extends beyond just designing a simple lifter. Students are required to work together and record what they do.

When they hand in their portfolios, their work will be judged on how well they did all the paperwork required to document a construction project.

The students are also judged on their constructs. They came to MCC on March 27 and had a set time to build lifters from their designs. Judges looked at their portfolios and their lifter projects to pick the winners.

Michaelson said there were winners in several categories.

"There are a total of 110 students formed into teams. The students pick the name of their team," Michaelson said. "For example, one team named themselves the Mad Hydrologists.

"What I like about what we do



Students, from left, Griest, Espere, Mazzone and teacher Michaelson at NFPA Fluid Power Action Challenge.

is that this is a true competition. We don't give out trophies for participation. The real adult world doesn't work that way.

"Part of what we teach is that you need to work hard to succeed. A lot of these kids are very academic and don't play organized sports, so they don't really learn the value of competition that way. They do with this event."

Abigail Espere is a member of the Mad Hydrologists. She enjoys the contest because she gets to work with others.

"This helps you learn how to build," Espere said. "You really put your knowledge of physics to work.'

Her teammate Julia Griest said she likes the fact that the skills they learn for the contest will benefit them later on in their academic and work lives. Fellow Mad Hydrologist Ava Mazzone said she likes this project because it's something her father knows about. She was able

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to go to him for advice. "My dad knows something about this and it's fun to talk to him about the contest," Mazzone said. "But it's also fun to be able to work with friends and try to solve problems together.'

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LOCATION: Courtyard Marriott 30190 Van Dyke Ave., Warren, MI 48093 (across from GM Tech Center)

immediately, said GM spokesman Pat Morrissey.

In her Global Purchasing role Brycz was instrumental in transforming supplier relationships by providing strategic solutions to future sourcing and supplier engagement.

Brycz, a native of Detroit, began her GM career in 1983 with the Cadillac Motor Car Division in Detroit. Since then, she has held various positions in GM's Global Purchasing organization, including serving as the Global Purchasing lead for electrical systems, batteries and hybrids and interiors. Prior to her most recent role, Brycz served as executive director, Global Purchasing. Indirect Materials, Machinery and Equipment.

Kim brings to the job a strong set of leadership and organizational skills that will help lead our ongoing efforts to transform the company through our people and culture," said GM Chairman and CEO Mary Barra.

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The FT 400 was developed in collaboration with Ignites Research, a subsidiary of the FT that provides specialized content on asset management. To qualify for the list, advisers had to have 10 years of experience and at least \$300 million in assets under management (AUM) and no more than 60% of the AUM with institutional clients. The FT reaches out to some of the largest brokerages in the U.S. and asks them to provide a list of advisors who meet the minimum criteria outlined above. These advisors are then invited to apply for the ranking. Only advisors who submit an online application can be considered for the ranking. In 2016, roughly 980 applications were received and 400 were selected to the final list. The 400 qualified advisers were then scored on six attributes: AUM, AUM growth rate, compliance record, years of experience, industry certifications, and online accessibility. AUM is the top factor, accounting for roughly 60-70 percent of the applicant's score. Additionally, to provide a diversity of advisors, the FT placed a cap on the number of advisors from any one state that's roughly correlated to the distribution of millionaires across the U.S. The ranking may not be representative of any one client's experience, is not an endorsement, and is not indicative of advisor's future performance. Neither Raymond James nor any of its Financial Advisors pay a fee in exchange for this award/rating. The FT is not affiliated with Raymond James. space Neither Raymond James Financial Services nor any

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FCA Settles Suit With Deceased Actor's Family

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by ANDREW DALTON AP Entertainment Writer

LOS ANGELES (AP) - The parents of Anton Yelchin have reached a settlement with the makers of the Jeep Grand Cherokee, the SUV that crushed and killed the "Star Trek" actor in his driveway in 2016.

The confidential settlement agreement between Victor and Irina Yelchin and Fiat Chrysler was filed last month.

Fiat Chrysler said in a statement March 22 that it is "pleased that we've reached an amicable resolution in this matter" and that the car company continues to "extend our deepest sympathies to the Yelchin family for their tragic loss.'

Messages left for Yelchin family attorney Gary Dordick were not immediately returned.

The actor was killed at age 27 when his 2015 Cherokee rolled backward down a driveway of his Los Angeles home, pinning him between a mailbox and a security fence.

"Anton Yelchin was crushed and lingered alive for some time, trapped and suffocating until his death," the lawsuit stated.

The Cherokee model was among 1.1 million vehicles recalled about two months earlier when regulators said its gear shifters were confusing drivers, causing the SUVs to roll away unexpectedly and leading to dozens of injuries.

The wrongful death and product liability lawsuit alleged that those gear selectors were the cause of the actor's death.

Anton Yelchin is probably best known as Pavel Chekov in the rebooted "Star Trek" movie franchise.

It's an iconic symbol of community for everyone to see and cele-

CONTINUED FROM PAGE 1

brate." Chevrolet is the Official Vehicle of Major League Baseball and the Official Automotive Sponsor of the PLAY BALL initiative to support America's favorite pastime, Farah said.

From 2006 to 2017, Chevrolet reached more than 6.7 million kids through its youth baseball programs. Chevy has donated more than 136,000 equipment kits to youth baseball initiatives and held more than 1,637 free public clinics in partnership with local Chevrolet dealers.

But that's not all, Farah said. Professional baseball has a storied history stretching back more than 150 years, and now fans can celebrate the game throughout the entire MLB season by visiting a special Detroit Institute of Arts exhibition featuring artwork from the museum's collection, plus rare baseball cards, memorabilia and collectibles from the Rochester, Michigan-based E. Powell Miller collection. The exhibit opens March 29.

"Chevrolet has such a natural connection with baseball through our long partnership with MLB and our dealers' dedicated support of youth baseball programs around the country that it made perfect sense for us to play a role in bringing such a wonderful display of baseball memorabilia and art to life at the DIA," said Edwards.

A complete collection of more than 500 very rare baseball cards known as the T206 White Border Set produced in vivid color lithography, released 1909-1911 by the American Tobacco Company, is an exhibition highlight. E. Powell Miller's collection is noted for its rarity and superlative condition, and, according to Professional Sports Authenticator, it is ranked third in the world. The Miller T206 collection boasts a Joe Doyle "error card" as well as the coveted and extremely rare Honus Wagner card.

The exhibition coincides with the 50th anniversary of the Detroit Tigers 1968 World series championship. To celebrate this milestone, the DIA will feature vintage material from the Miller collection including Tigers baseball cards, programs and other publications, as well as Al Kaline's autographed bat and memorabilia devoted to Kaline's Corner, the section of the outfield named in his honor

"In the ancient Greek Olympic games, arts and sports shared both venue and excitement. Contests to be the best poet or the fastest runner were equally competitive and celebrated," said DIA Director Salvador Salort-Pons. "Like in the Olympic Games, the DIA will be a venue to celebrate the creativity of arts and sports. Families and sports fans on their

way to a game will be able to discover great art featuring baseball themes and pieces of Detroit Tigers history. The DIA is more than a museum."

baseball-themed Two art works also will be exhibited at the DIA: the 1993 large-scale painting, "Hard Ball III," by American artist Robert Moskowitz and a new acquisition by contemporary Guatemala-based artist Dario Escobar, who will create a special installation of cut Detroit Tiger baseball bats that forms an outline of the Detroit skyline.



This 2018 Chevrolet Colorado is being put on display at Comerica Park for the 2018 Tigers' season.

Warren Stamping Earns FCA's Silver Rating

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increasing productivity, and improving quality and safety in a systematic and organized way, was first implemented by Fiat in 2006 and introduced to Chrysler Group as part of the alliance between the two companies in June 2009. WCM engages the workforce to provide and implement suggestions on how to improve their jobs and their plants, promoting a sense of ownership.

"I want to congratulate the nearly 2,000 employees at Warren Stamping, who have truly embraced WCM and demonstrated the proper competencies, rigor and pace that make them deserving of the silver designation," said Brian Harlow, vice president – Manufacturing, FCA North America.

"Since its implementation, WCM has been instrumental in changing the culture in our plants. It has given dignity to our workforce by recognizing that their dedication and knowledge are critical to our success and has created a new spirit of coop-

eration with a focus on achieving our shared goals."

The achievement of WCM levels, as confirmed award through independent audits, recognizes the long-term commitment of the workforce to making significant changes that can secure the future of a facility, Harlow said. Awarded plants also have a role in accelerating the implementation of WCM throughout the organization as coaches and mentors.

During an audit, zero to five points are awarded for each of the 10 technical pillars, which include safety, workplace organization, logistics and the environment, and for each of the 10 managerial pillars, such as management commitment, clarity of objectives, allocation of people, motivation of operators and commitment of the organization. A score of 80 would indicate World Class.

Along with WSP, six other FCA North American facilities have been designated silver plants -Windsor (Ontario) Assembly Plant, Dundee (Michigan) Engine

Plant, Toledo (Ohio) Assembly Complex, Saltillo (Mexico) South Engine Plant, Mack Avenue Engine Plant (Detroit) and Saltillo (Mexico) Van Assembly Plant. Windsor Assembly was the first plant to reach silver status (in March 2014).

There are currently 13 facilities that hold the WCM bronze designation, Tinson said. They are Saltillo (Mexico) Truck Assembly, Trenton (Michigan) Engine Complex, Indiana Transmission Plant II (Kokomo, Ind.), Kokomo (Ind.) Transmission Plant, Kokomo (Ind.) Casting, Toluca (Mexico) Assembly, Sterling Stamping (Sterling Heights), Brampton (Ontario) Assembly, Tipton (Ind.) Transmission, Belvidere (III.) Assembly Plant, Indiana Transmission Plant I (Kokomo. Ind.), Toledo (Ohio) Machining, and Warren (Mich.) Truck.

Two Kids' Idea: A Device That Saves Rainwater





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CONTINUED FROM PAGE 1

the water, rubber pipes connected the bottom of the windshield to the reservoir.

"Daniel and Lara's idea has been staring drivers in the face for decades - and it has taken one moment of ingenuity to bring it to life. In less than five minutes of rainfall, the washer reservoir is completely full," said Theo Geuecke, supervisor, Body Exterior Hardware, Ford of Europe.

Water usage by vehicles is expected to increase as additional cameras and sensors also need to be kept clean, Wagener said. "What a brilliant idea!" said Nicci Russell, managing director of Waterwise. "Innovations like these are essential to make the water we have go further.

'We will all need to change our behavior to waste less water, but we'll also need clever new bits of kit like the one Daniel and Lara have designed."

German OEMs' **Transportation** Services Merge

FRANKFURT, Germany (AP) -Automakers Daimler and BMW have agreed to merge their transportation services businesses so they can expand offerings in ride-hailing apps, carsharing, parking, and charging electric cars.

The two companies said March 28 that they aim to become a "leading provider" of new ways to get around cities, where more people will see cars as a service they use when needed.

Those businesses include carsharing, an area where Stuttgartbased Daimler AG operates its car2go service and Munichheadquartered BMW AG has DriveNow. Customers use a smartphone app to find and unlock cars parked on city streets and use them for short periods when needed.

Also part of the deal is Daimler's moovel startup, which allows users to book and pay for trains, cars, taxis and rental bikes. BMW's digital parking service enables ticketless, cashless on-street parking and helps uses find spaces in garages.

The combined business would also offer charging services for battery-powered cars. So far, electric cars have only a small market share due to higher cost, limited range and lack of places to charge.

Once electrics become as cheap or cheaper than conventional cars, their market share could expand quickly, and with it the demand for charging.

The 50-50 joint venture requires approval from regulators. The companies did not say what its name, headquarters, or annual revenue would be, or what executives would run it.

Auto companies are developing services businesses to fend off competition from industry outsiders such as Uber and Lyft.

Volkswagen has set up services company Moia, aiming to develop and offer on-demand mobility; General Motors is operating its Maven car-sharing app.

'As pioneers in automotive engineering, we will not leave the task of shaping future urban mobility to others," Daimler CEO Dieter Zetsche said in a statement.

There will be more people than ever before without a car who will still want to be extremely mobile. We want to combine our expertise and experience to develop a unique, sustainable ecosystem for urban mobility."

Daimler's Car2Go operates in more than two dozen cities and has more than 3 million registered users with access to 14,000 rental vehicles.





20,000 New **Land Rovers**

NEW YORK (AP) - Self-driving car pioneer Waymo will buy up to 20,000 electric vehicles from Jaguar Land Rover to help realize its vision for a robotic ridehailing service.

The commitment announced March 25 marks another step in Waymo's evolution from a secret project started in Google nine years ago to a spin-off that's gearing up for an audacious attempt to reshape the transportation business.

The Jaguar deal will expand upon a fleet of self-driving cars that Waymo has been gradually building in partnership with FCA since 2015. The minivans will be part of a ride-hailing service that Waymo plans to launch in Arizona later this year. Jaguar will deliver its vehicles for Waymo's ride-hailing from 2020 to 2022.

Tesla Driver Dies in California Car Crash

by TOM KRISHER AP Auto Writer

DETROIT (AP) - A missing or damaged safety shield on the end of a California freeway barrier worsened the impact of a crash involving a Tesla SUV that killed a man last week, the electric car maker said on its website.

The company also said in the statement that it doesn't know what caused the Model X to crash March 23 on U.S. 101 near Mountain View, and it's also unsure if the SUV was operating on its semi-autonomous "Autopilot" system. Tesla said it's working with authorities to recover logs from the damaged SUV's computer.

The SUV was traveling at "freeway speed" when it hit the barrier near Mountain View. The California Highway Patrol says the SUV caught fire for unknown reasons. The 38-year-old driver was pulled from the vehicle by rescuers and later died at a hospital.

On March 28, the U.S. Highway Traffic Safety Administration, which regulates road safety, said it would send investigators to California. The National Transportation Safety Board, which investigates crashes and makes safety recommendations, already has dispatched a two-person team.

Tesla's semi-autonomous system is designed to keep a vehicle centered in its lane at a set distance from cars in front of it and also can change lanes and brake automatically.

Photographs taken of the SUV show the front of the vehicle was obliterated. Its hood was ripped off and its front wheels were strewn on the freeway. Two other cars were involved in the crash, but their drivers were not reported injured, the CHP said.

Tesla said in the statement late March 27 that it was "deeply saddened" by the crash, which it said was made more severe because a crash attenuator, which protects vehicles from hitting the end of a concrete lane divider, had either been removed or damaged in a prior accident and was not replaced. "We have never seen this level of damage to a Model X in any other crash," the company wrote.

Tesla also said its owners have driven the same stretch of road with Autopilot on about 85,000 times since 2015, and to its knowledge, there has never been a crash. Tesla says its data

shows that a gasoline-powered car in the U.S. is five times more likely to experience a fire than a Tesla.

News of the crash investigation helped to send Tesla stock tumbling more than 8 percent last week. Late March 27, Moody's downgraded the company's credit rating and gave it a negative outlook. Shares continued to decline March 28, slipping more than 7 percent to \$259.45 in afternoon trading. The shares have declined about 14 percent

since the start of the year on fears of production delays with the mass-market Model 3 electric car

The NTSB investigation is the second opened by the agency this year involving a Tesla vehicle.

In January, the NTSB and the National Highway Traffic Safety Administration dispatched teams to Culver City, near Los Angeles, to investigate the crash of a Model S electric car that may have been operating under the Autopilot system.

That crash remains under investigation.

The investigations come as Congress and federal agencies grapple with how to regulate autonomous vehicles and those with systems that are partially self-driving.

Tesla has taken steps to prevent drivers from using Autopilot improperly, including measuring the amount of torque applied to the steering wheel and sending visual and audio warnings.

If the warnings are ignored, drivers would be prevented from using Autopilot, the company said.

Trump Claims Victory in Korean Auto Agreement

by PAUL WISEMAN AP Economics Writer

WASHINGTON (AP) - The Trump administration said March 27 it has widened U.S. access to South Korea's car market while providing American manufacturers protection from South Korean imports.

The United States and South Korea have reached an agreement to overhaul the six-year-old U.S.-Korea Free Trade Agreement, senior administration officials said, confirming an announcement earlier on March 26 in Seoul. President Donald Trump had called the original Korea pact a job killer.

The new deal doubles - to 50,000 - the cars each U.S. automaker can export annually to South Korea, reduces bureaucratic barriers to American products and extends a 25 percent U.S. tariff on South Korean pickup trucks by 20 years, through 2041.

South Korea escapes America's new 25 percent tariff on imported steel - but must accept quotas on steel exports equal to 70 percent of its average annual shipments to the United States between 2015 and 2017.

The officials spoke on condition of anonymity in order to discuss the policy ahead of an official announcement.

The United States this month began imposing the steel tariffs, saying imports jeopardized U.S. national security. But it has been suspending the duties on allies like the European Union, Canada and Mexico. The U.S. Treasury Department is also in talks on a deal to prevent Seoul from deliberately pushing its currency lower to give South Korean exporters a competitive advantage. A formal agreement on currency would be unprecedented – but it wouldn't have teeth, because it would include no enforcement mechanism. The U.S. trade deficit in goods with South Korea - nearly \$23 billion last year – widened after the original pact took effect in 2012, one reason Trump has denounced it. Trade in autos has been especially lopsided: South Korea last year exported to the United States 929,000 passenger vehicles worth \$15.7 billion. By contrast, the U.S. shipped to South Korea fewer than 53,000 autos, worth just \$1.5 billion, according to the U.S. Commerce Department.

The United States says South Korea has used non-tariff barriers, such as rigorous customs inspections, to block U.S. products.

Trump's complaints about South Korean trade practices have caused friction between the two allies at a crucial time, as he prepares for a meeting with North Korea's reclusive leader, Kim Jong Un.

Unions at South Korea's twolargest automakers, Hyundai Motor Co. and Kia Motors Corp., have already blasted the new agreement for blocking access to the fast-growing U.S. pickup truck market. "It is a humiliating deal that accepts Trump's strategy to preemptively block South Korean pickup trucks," Hyundai Motor Company's labor union said in a statement.

Autonomous Tech Faces Scrutiny After Fatality

DETROIT (AP) - Autonomous vehicles get all the headlines, but automakers are gradually adding advanced electronic safety features to human-driven cars as they step toward a world of self-driving vehicles.

Car and tech companies are rolling out laser sensors, artificial intelligence. larger viewing screens that show more of the road, cameras that can read speed limit signs, and systems that slow cars ahead of curves and construction zones. Many of the new features repurpose cameras and radar that already are in cars for automatic emergency braking, pedestrian detection and other safety devices. The companies also are keeping a closer watch on drivers to make sure they're paying attention. On March 26, Arizona's governor suspended Uber's self-driving vehicle testing privileges after one of its autonomous vehicles struck and killed a pedestrian last week. But auto engineers and industry analysts still say roads will become safer as more vehicles get automated features that either assist or replace human drivers. The government says 94 percent of crashes are caused by human error.



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