Tech Center News...

WARREN, MICHIGAN

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JULY 11, 2016



This barbeque basket was one of 27 raffled of to raise funds for charity.

St John's Nurses Help Raise \$15,000 for 'Make A Wish'

by Jim Stickford

It was another successful fundraising season for the the Professional Nurse Practice Council at St. John Macomb and St. John Oakland hospitals.

Karen Lawrence, a registered nurse at St. John Macomb, has been in charge of the council's fundraising efforts for the past few years and said this year's effort raised \$15,000 for the Make-A-Wish Foundation.

This is the fourth year the group has been working with

Make-A-Wish, Lawrence said.

"We've been holding an annual basket raffle," Lawrence said. "Various different departments at both hospitals put together gift baskets with a theme, and these baskets are put on display for a few days, usually during May to coincide with Florence Nightingale's birthday. Raffle tickets are sold and the 27 themed baskets are given to the

The baskets were on display

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MDOT and Army's TARDEC Testing Autonomous Tech

munications technology for U.S. Army vehicles along I-69 in St. Clair and Lapeer counties in late June has been a success, according to the Michigan Department of Transportation (MDOT).

The testing was the first step to eventual autonomous operations of Army line-haul convoys, said Michigan Department of Transportation spokesman Rob Morosi.

"Our partnership with TARDEC is valued because it allows us to further develop this technology,' Morosi. "This is really the first step. There's been autonomous driving tech tests by the Army in closed environments, but this is a test in an open environment."

MDOT deployed road-side sensors along the test route and it allowed the Army to receive and provide information about road conditions.

Morosi said that these vehicles all had drivers behind the wheel, and this tech allowed these drivers to see the lane closures even they were in visual range.

Gov. Rick Snyder, State Transportation Director Kirk T. Steudle, and U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) Di-

The testing of highway com- rector Dr. Paul Rogers took part in a demonstration on Thursday, June 23, to see the vehicle-toinfrastructure communications technology in action.

A video of the event is available on the MDOT YouTube channel, Morosi said.

"This is an opportunity to show true leadership in one of the most exciting developments and evolutions of technology that we've seen for decades. Gov. Snyder says in the video. "And that's really the change from the auto industry to intermobility that will get into autonomous and connected vehicles.'

The testing included direct communications between Army trucks and roadside units deployed by MDOT. Messaging that is low in latency and provides pro-active information is paramount to the success of eventual full automation for supply con-

This test showed the capability of this technology and MDOT's expertise in the infrastructure necessary to support autonomous vehicle testing in Michigan, Morosi said. The state is leading the nation in the deployment of this technology.

GM Using Space-Age Glove in Auto Plants

case of GM's partnership with Bioservo Technologies, the alliance fits like a glove.

Robotic glove technology developed out of a partnership between General Motors and NASA for use on the International Space Station is finding new life on Earth in health care, manufacturing and other industrial applications though a licensing agreement between GM and Bioservo Technologies AB, a Swedish medical technology company, said GM spokesman Alan Adler.

Working with GM, Bioservo will combine technology from its SEM Glove (Soft Extra Muscle) technology with the RoboGlove, a force-multiplying battery-powered wearable developed by GM and NASA during a nine-year collaboration that included the launch of the humanoid robot called Robonaut 2 (R2) space in 2011, Adler said.

The RoboGlove uses leadingedge sensors, actuators and tendons that are comparable to the nerves, muscles and tendons in a human hand. One design requirement for R2 was to operate tools designed for humans, and developers achieved unprecedented hand dexterity. That technology was applied to the RoboGlove.

Bioservo, Adler said, will initially develop a new grasp assist device for industrial use that

efficiency while reducing fatigue in hand muscles. Research shows fatigue can occur within a few minutes of continuously gripping a tool.

"Combining the best of three worlds - space technology from NASA, engineering from GM and medtech from Bioservo - in a new industrial glove could lead to industrial scale use of the technology," said Tomas Ward, CEO of Bioservo Technologies.

Ward said the technology combination is a major step toward introducing soft exoskeleton technology globally.

GM intends to be the first U.S. manufacturing customer for the refined robotic glove and will

Some cliches are true. In the could increase human operator test it in some of its plants, Adler said. Bioservo will make and sell the new glove for a variety of uses including medical rehabilitation and any place additional gripping strength is needed.

"The successor to RoboGlove can reduce the amount of force that a worker needs to exert when operating a tool for an extended time or with repetitive motions," said Kurt Wiese, vice president of GM Global Manufacturing Engineering.

GM briefly tested RoboGlove in a preproduction plant before looking for a partner to help refine it to fit different size hands and other issues, Wiese said.

CONTINUED ON PAGE 2



GM's new RoboGlove enhances a user's hand strength in manufacturing.

Retired Ford Car Sculptor Remembers Creation Process of the First Mustang

by Jim Stickford

Giuliano Zuccato has had an interesting career path. Born in Italy, he immigrated to Windsor, Ontario, in the early 1950s and was a self-taught sculptor who practiced on bars of soap while he was in a full-body cast for treatment of tuberculosis of the

Zuccato said a doctor had seen how he carved Abraham Lincoln out of a bar of soap and suggested that he try clay sculpting. He did and was hired by the J.L. Hudson Co. to work on costume helmets for the annual Thanksgiving Day Parade. He joined Ford in 1957 "as a car sculptor."

"In those days we had no machines." Zuccato said. would be an engineer, a buck and a two-dimensional skeleton. As a clay sculptors it was our job to add that third dimension to the designer's two-dimensional sketch."

Back then, Zuccato said, clay sculptures were the only way to see a design in three dimensions, and Ford had several studios going at once.

It was under these conditions that Zuccato and his fellow clay sculptors were introduced to a design that would become the

"The 1964 Mustang was built on the Ford Falcon platform," Zuccato said. "We had got the information about the design from sketches and from verbal notes from the main designer Gale Halderman, who is credited with giving the Mustang its identity."

Zuccato said that the original

sketches he saw really didn't he was just one sculptor who have much going in terms of the front end, and Halderman gave Zuccato and his fellow studio members some ideas and then walked away and let them do their job.

"We did the model in something like two weeks," Zuccato said. "We had a competition with other studios at Ford who had been working on the vehicle. Henry Ford II wasn't happy, which is why our studio was brought in. Lee Iacocca liked what we did with the driver's side of the front, so we duplicated that and our design was accepted."

Zuccato was quick to say that

worked on the Mustang design.

"We were going for a young, sporty theme," Zuccato said. "The car was supposed to be something the youth of America would want to drive. And we had to keep it affordable and that's why the Falcon platform was chosen. And why we were able to make the Mustang in 18 months. And in 18 months Ford sold a million Mustangs.'

Zuccato said he and his fellow sculptors worked very hard on the Mustang, often putting 24hour days.

"No one person can claim that

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Ford retired sculptor Giuliano Zuccato shows off his work.

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WWII Bomber to Be Restored after Found in Lake MI

PORTAGE, Mich. (AP) – A WWII bomber recovered from Lake Michigan has arrived at the Air Zoo in Portage for restora-

The Kalamazoo Gazette reports that the restoration process for the U.S. Navy Douglas SBD-2P Dauntless Dive Bomber is expected to take three to five years to complete. The restoration will be done mostly by volunteers.

The plane is the third Lake Michigan-recovered aircraft project granted to the Air Zoo. The plane was lost during a secret Great Lakes training mission, when Lt. Junior Grade John Lendo of Massachusetts crashed into Lake Michigan on Feb. 18, 1944. Lendo survived the incident.

The aircraft was recovered from the lake in June 2009. It arrived at the museum on July 1.

Air Zoo president & CEO Troy Thrash told people gathered for the plane's arrival that restoring the aircraft is more than about preserving the object, but about restoring the stories of the people who served the country.

A and T Recovery lifted the plane from Lake Michigan on behalf of The Pacific Aviation Museum Pearl Harbor in Hawaii. The museum sponsored the discovery and recovery of the aircraft through a donation from the late Fred L. Turner, honorary chairman and former CEO of McDonald's Corporation.

The aircraft will be displayed at the Pacific Aviation Museum once the restoration is complet-

GM's Space-Age Glove Coming To Auto Plants

CONTINUED FROM PAGE 1

Bioservo Technologies AB is a leader in soft exoskeleton technology and the compoany combines medical know-how of people's needs with modern robotics technology to create innovative, strength-enhancing products, Adler said.

The award-winning SEM Glove is used as an occupational back to aid, in healthcare and in the home by people with impaired muscular strength or in need of additional strength and endurance, Adler said.

durance, Adler said.

The patented SEM (Soft Extra Muscles) technology is being put to use in innovative products in a number of international projects, including the HandinMind project for more effective stroke rehabilitation and IronHand project for Activities for Daily Living

(ADL).
The unique technology has its origin from the Swedish Royal Institute of Technology (KTH) and the Swedish Karolinska University Hospital. The HandinMind and IronHand projects have financial contributions from the European Commission, Adler said.

Tesla Auto Pilot Fatal Incident Brings Up Safety Issues

WASHINGTON (AP) – The first American death involving a car in self-driving mode presents a dilemma: How aggressively to embrace the potentially life-saving technology after a fatal crash. The driver's history of speeding further complicates the question.

The National Highway Traffic Safety Administration is investigating the design and performance of the Tesla Model S vehicle's "Autopilot" system after announcing the death of a driver on June 30. The system was engaged at the time of the crash, but that is only part of the story.

The driver, Joshua D. Brown, a 40-year-old technology company owner from Canton, Ohio, was so enamored of his sedan that he nicknamed it "Tessy" and praised the Autopilot's safety benefits. Brown published videos on Youtube of himself behind the wheel with the system active.

He was killed May 7 in Williston, Florida, when his car's cameras failed to distinguish the white side of a turning tractortrailer from a brightly lit sky and didn't automatically activate the brakes, according to statements by the government and the automaker. Brown didn't take control and brake, either.

Brown's family said in a statement that it wanted to help the



.com • royalty@royaltyhouse.com

government and Tesla so that "information learned from this tragedy will trigger further innovation which enhances the safety of everyone on the roadways."

His death comes at an awkward time for the U.S. government and car makers.

NHTSA Administrator Mark Rosekind was expected later this month to announce guidelines on self-driving cars for states and automakers. The transition to the new technology could radically transform how people travel in the future.

Rosekind has stressed the potential life-saving advantages. In theory, automated vehicles will eliminate the human errors that are responsible for an estimated 94 percent of traffic fatalities. With more than 35,000 people killed on the nation's roads last year, the benefits could be enor-

mous. Still, experts say some crashes and deaths will continue occurring.

Expecting "defect-free," self-driving cars is unreasonable, said Timothy Carone, a Notre Dame professor and author of "Future Automation: Changes to Lives and to Businesses." Still, he said the technology will become safer as it matures.

A former NHTSA administrator, Joan Claybrook, said the government should ensure car companies test self-driving software to eliminate defects before vehicles hit the road. She said automakers shouldn't make guinea pigs of their customers.

"There is nothing unique about software that it can't be tested," Claybook said.

Friends described Brown as having a "need for speed," and state records obtained by *The As*-

sociated Press show he had eight speeding tickets over six years.

Terri Lyn Reed, an insurance agent in northeastern Ohio who insured Brown's business, described her friend as "kind of a daredevil" who loved excitement and speed, and was fearless. A former employee of Brown's, Stan Staneski, said Brown drove fast, but he considered him a safe driver.

But the truck driver in the wreck, Frank Baressi, 62, of Palm Harbor, Florida, recalled Brown driving quickly when the accident occurred: "He went so fast through my trailer I didn't see him."

Baressi also told the AP that Brown was "playing Harry Potter on the TV screen" at the time of the crash. Baressi acknowledged he couldn't see the movie, only heard it



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The 2017 CTS-V and 2017 ATS-V now come with the Carbon Black sport package.

Cadillac Offering 'Carbon Black' Models

Cadillac has introduced the Cadillac ATS has to compete with owned the luxury market for Carbon Black sport package for the 2017 model year editions of the Cadillac ATS and CTS product lines, including the ATS-V and CTS-V super sedan.

The Carbon Black sport package - which includes the firstever Black Chrome grille for V-Series models and RECARO front seats for Cadillac ATS Sedan and Coupe models - further enhances the engaging performance and striking design of Cadillac's driver's cars.

This is a big deal, said Cadillac spokesman Steve Martin, because "anytime you can give customers more than they expect, they love it."

'Our vehicles are the benchmarks in these segments," Mar-

cars like the BMW Three Series, the Mercedes C Class and the Audi 4. The CTS, in the midsize luxury category, competes with the BMW Five Series, the Mercedes E Class and the Audi A6. That's tough competition."

But, Martin said, Cadillac is more than up to the challenge. "Cadillac has established it-

self and we are finding the point where we can connect our relevance with what people look for in an American luxury vehicle," Martin said. "American is an optimistic and passionate where people dare to be different and that is the spirit that drives

'We can display our passion and be new and daring and flexitin said. "In compact luxury, the ble amidst brands that have

years. We are striving to regain the world standard in luxury vehicles

And, Martin said, the Carbon Black packages are a brick in that wall of excellence. By being able to expand Cadillac's product line with option choices that give consumers what they want in one simple package.

And as an added bonus, they get darker chrome trim that gives the vehicles a little extra snap the in the looks department.

So to meet higher consumer expectations, Martin said Cadillac's ATS and CTS product lines received additional key refinements for 2017, including new, more streamlined trim levels, Martin said.

Production for the 2017 model year begins later this summer, and dealers can now accept orders.

St John's Nurses Help Raise \$15,000 for 'Make A Wish'

CONTINUED FROM PAGE 1

for three days, and then 27 winners were chosen at the end of the raffle, Lawrence said.

This year, Lawrence said, the \$15,000 raised is a full three times the amount they raised for Make-A-Wish during the first raf-

"We will be able to make the wishes of three children come true," Lawrence said. "We asked that the money go to local children. The first child has been picked and that child is local. The other two children haven't been chosen yet."

Lawrence said that the 27 different departments at the two hospitals put a lot of time and creativity in the construction of their gift baskets.

"The obstetrics department made a money tree in which 500 dollar bills were folded into various flower and leaf shapes," Lawrence said. "The anesthesia department's basket included a fully operational gas barbeque grill and all the fixings needed to put on a barbeque. Another department's theme was 'garden party' and their basket contained all the things one might need to plant and maintain a nice garden."

The tickets sold one for a dollar, six for five dollars, Lawrence

"This is a great charity and so



A money tree charity basket.

many people in all the departments were generous with their time by getting items for the baskets and then making them," Lawrence said.

"Their efforts have made it possible for the wishes of three sick children to come true, and that's something we can all be proud of."

Lawrence said that she's been happy to be in charge of the raffle at her hospital for the past four years and doesn't see the iob as a burden.

"It's my way of giving back," Lawrence said. "Once you do something well, people will ask you to continue to do it. I enjoy this. It's something I can do that keeps me involved and lets me help people.'

GM Emp. Car Show July 20

Employee Car Show is scheduled to take place on Wednesday, July 20, from 10 a.m. to 2 p.m. at the GM Tech Center in Warren.

The theme of this year's show is celebrating 60 years of innovation at the Tech Center.

Advanced registration for the eecarshow.com

The 2016 UAW-General Motors car show ends on Friday, July

The show is open to all current or retired GM employees, as GM contract employees.

Those wishing to register or learn more about the show can visit its Web site at gmemploy-

Warren Library Holds Driving Class

On Thursday July 21 at 6 p.m., Jennifer Dixon of McLaren Health Center will present her "Older, Wiser Driver" program, said Warren librarian Jennifer Lund.

Part of Dixon's discussion will deal with the serious issue of distracted driving, Lund said.

"She will also have a distracted driving simulator the audience will be allowed to practice on following the presentation," Lund said.

The presentation will take place in the Warren Civic Center Conference Center, Please call 586-574-4564 to register.



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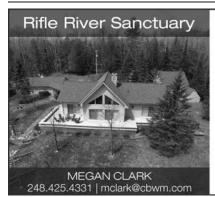
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Ford Uses Smart Vehicle Tech in F-Series

Ford's use of smart-vehicle control – including powertrain technology gives drivers more confidence and control behind the wheel of the new 2017 Ford F-Series Super Duty pickup with class-exclusive driver-assist technologies.

TECH CENTER NEWS - WARREN

Adaptive cruise control, adaptive steering, and Blind Spot Information System with trailer coverage are three of the new class-exclusive features available to heavy-duty pickup truck drivers for the first time on Super Duty, said Ford spokesman Mike Levine.

"The all-new Super Duty is the toughest, most capable Super Duty ever," says Brian Rathsburg, Ford Super Duty marketing manager. "With a host of driver-assist technologies, it is also the smartest Super Duty ever."

Drivers can set cruise control at a comfortable following distance using Super Duty's adaptive cruise control, Rathsburg said. The feature uses radar to measure the distance and speed of vehicles ahead, then automatically slows truck and trailer to maintain that preset distance at speeds above 20 mph.

Adaptive cruise control with Super Duty's 6.7-liter Power Stroke diesel engine uses the engine brake to smartly assist drivers towing heavy trailers, allowing truckers to traverse steep mountain grades while maintaining speed - even with a trailer weighing more than 31,500 pounds, Levine said.

"Towing is core to the Super Duty mission, and drivers will appreciate the engineering sophistication that enables adaptive cruise control to determine speed uphill and downhill with a trailer," says Craig Schmatz, Ford Super Duty chief engineer. "We have torture-tested the technology in high elevations and on significant grades at places like Davis Dam in Arizona, Loveland Pass in Colorado and the mountain roads surrounding Beckley, West Virginia.'

A number of systems work in tandem to enable adaptive cruise

control, trailer brake control and the anti-lock brake system, Schmatz said. Speed is further controlled on descents with the 6.7-liter Power Stroke engine's integrated engine brake, which is enabled with the push of a button. Extra engine braking power helps reduce wear and tear on wheel brakes - especially on downhill grades.

Adaptive cruise control is optional on Lariat, King Ranch and Platinum Super Duty pickups, including the mighty Ford F-450 Super Duty, Ford's most capable pickup, Levine said.

Another class-exclusive feature - adaptive steering - helps give Super Duty drivers more confidence to maneuver tight work sites and parking lots, Schmatz said.

Adaptive steering is a new generation of power steering technology that reduces the amount of steering input needed to change direction at low speeds, Levine said. It also reduces sensitivity to steering input necessary at higher speeds and helps make towing the heaviest of loads easi-

The technology changes the ratio between the driver's actions at the steering wheel - the number of turns - and how much the front wheels turn. Vehicles

without the technology have a fixed ratio, but with adaptive steering, the ratio continually changes with vehicle speed, optimizing steering response in all conditions.

Housed entirely within the steering wheel, the precisioncontrolled actuator - an electric motor and gearing system - can add to or subtract from a driver's inputs. The result is a more connected, engaging driving experience at all speeds, Levine said.

Even more smart technologies BLIS with trailer coverage is another Super Duty class-exclusive feature.

It uses radar hidden in the taillights to detect a vehicle entering a driver's blind spot while driving or backing up, and alerts the driver with a yellow light in the sideview mirror.

For Super Duty, BLIS can extend to the back of the trailer, helping to make the driver aware of vehicles entering the trailer's blind spot.

Another driver-assist technology, lane-departure warning, vibrates the steering wheel to mimic rumble strips when the driver begins to drift over a lane mark-

The new Super Duty will be built at Ford's Kentucky Truck Plant. It goes on sale late this



2017 Ford F-450 Super Duty Platinum with Adaptive Cruise Control.

Ford Escape Receives Show Biz Support

trends, which is why Ford is sponsoring a reality show that

will feature the 2017 Escape. It's called "The Runner," but contestants are getting some help from the new 2017 Ford Escape as they keep their eyes on a cash prize, said Ford spokeswoman Becky Sanch.

A first-of-its-kind reality show, "The Runner" was created by executive producers Matt Damon and Ben Affleck. It centers on one individual - the Runner - scrambling to make it across the United States while five two-person teams, with the help of those at home, give chase, Sanch said.

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chase team, and use social media to provide clues as to the Runner's location at any particular

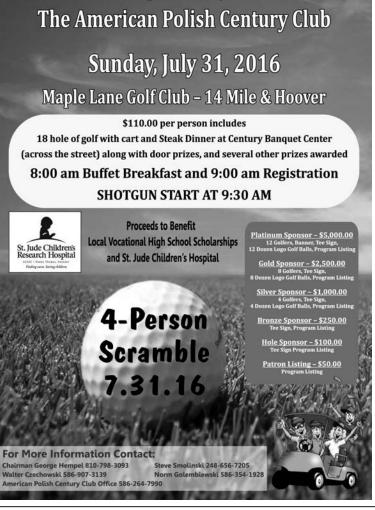
Ford Motor Company and Verizon's Go90 mobile app have formed an expansive marketing collaboration that puts the 2017 Ford Escape at the center of "The Runner," which begins airing live today on the Go90 app - available on Apple or Android mobile devices - as well as on AOL.com and Xbox. The show runs through July.

Kevin Schad, Escape brand manager, says Escape's "adventurous, unstoppable spirit" fits

There's no escaping some Viewers can root for a particular with the mindset of the innovative new show.

"With live daily content that invites viewers to participate, 'The Runner' is an ideal program to showcase the innovative technologies of the Ford Escape,' Schad said. "It's a natural fit."

The deal makes Ford the title sponsor of the show, one of the first Go90 programs to be distributed across AOL's content properties, Sanch said. Along with "The Runner," users of the Go90 app can watch a variety of other programming including exclusive originals, sports, live events and prime-time shows from networks such as HBO.





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Retired Ford Car Sculptor Remembers Creation Process of the First Mustang

CONTINUED FROM PAGE 1

Mustang, but a lot of people worked on the look and I believe no one can claim he designed the car by himself. We worked together as a team. The best way to describe what we did was that we had a good marriage. Doing what we did was an art.'

Over the years Zuccato worked on a number of vehicles for Ford. He later worked on the Mustang GTT in 1982, and on the Ford Probe.

He retired from the company back in 1988. He has his own stu-

The Mustang, Zuccato said, celebrated its 50th anniversary a couple of years ago, and interest in the vehicle's development has grown.

"I always knew the Mustang was a popular car," Zuccato said. "But over the last couple of years, talking with Mustang fans, I have come to believe that for some Mustangs are an addiction. People just love talking about the car and learning about it."

Zuccato himself said that he's even written his own song about the car titled "Mustang Man".

He's been asked to speak to groups around the country and will be on hand at the groundbreaking ceremony of the National Mustang Museum in Concord, N.C. on July 29.

catto said. "That's been open for many years, but until now the Mustang never had its own museum. People ask me why North Carolina, considering the fact that the Mustang was designed and built in Michigan. Apparently, it has to do with NASCAR. There is a NASCAR track a couple of miles away, and it's the hope that when there are races, which draw many thousands of people, some of them will take the time to visit the museum. This is a private museum and not

officially affiliated with Ford." In fact, Zuccato has become something of a Mustang historian and speaks to many groups.

seum in Bowling Green, Ky., "Zu- He will be speaking at the upcoming SEMA show and even has a documentary on the Mustang development process on his Web site http://giulianozuccato.com.

Zuccato will turn 84 on July 14. He spends a lot of his time with other Mustang developers like Jack Roush, who has his own Mustang stories about the history of the Mustang.

"It's funny, I never knew just how popular the Mustang was with the public until recently.' Zuccato said. "When we developed that car, our tools were simple. It's a totally different world now, design-wise, but the Mustang is still a very popular car. That hasn't changed.



"The Corvette has its own mu- This is a "1964 and a half" Mustang, which was the first model year.

Takata Settles Lawsuit Started in Japan

TOKYO (AP) - A woman injured by a faulty Takata Corp. air bag has settled her case and withdrawn her complaint, Japanese media reported July 6.

The case was filed May and was the first in Japan related to the unfolding massive global recall due to air bag problems. The woman was in the front seat passenger of a 2006 Nissan X-Trail sport-utility vehicle when the vehicle crashed on a freeway in October and the air bag burst improperly, although the one for the driver's seat worked properly, according to Nissan Motor Co.

Kyodo news agency reported Wednesday that the woman settled with Takata. NHK TV said the settlement totaled 12 million yen (\$119,000).

declined to give Takata specifics, giving as the reason that another party, the woman, was involved. Nissan declined to comment. The woman was injured in the face, the left arm and right hand. Nissan said.

The car model involved in the crash was part of a recall announced in May last year. The vehicle had been brought in, but no parts were replaced after a check





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to see if the bag's inflator was airtight, which at the time Nissan thought meant it was safe.

After the accident, Nissan decided to replace all inflators, regardless of whether they are airtight. If a replacement part isn't ready, the passenger side air bag will be turned off.

Takata has expanded its recalls because of possible defective inflators that can explode with too much force, sending shrapnel flying into passengers.

The number of recalled vehicles now likely tallies more than 100 million. Faulty air bags have been responsible for 11 deaths

and more than 100 injuries worldwide. Three deaths are being investigated in Malaysia.

The recalls involve almost every major automaker, including Honda Motor Co., Toyota Motor Corp., Ford Motor Co. and BMW. It has developed into the biggest recall in U.S. history, with 69 million vehicles being recalled there. Takata uses the chemical ammonium nitrate to create a small explosion that inflates air bags in a crash. But the chemical can deteriorate over time when exposed to high heat and humidity and burn faster than it is designed to.



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GM's China Sales Strong

ventures had record June deliveries in China of 273,563 units, which was up 11.2 percent on an annual basis. The Buick, Cadillac and Baojun brands had their best June ever, said GM spokeswoman Irene Shen.

Its strong performance in June enabled GM to set a first half record for deliveries in China, Shen said. Demand was up 5.3 percent from the first six months of 2015 to 1,810,476 units.

"Sales of the Cadillac luxury brand and Buick have remained strong throughout 2016," said GM Executive Vice President and GM China President Matt Tsien. "We have also seen very high demand for our Baojun entry-level passenger car brand and a return to growth for the Wuling brand."

Cadillac deliveries in June jumped 34 percent on an annual basis to 9,552 units. Demand for the ATS-L and XTS luxury sedans and XT5 luxury crossover all surpassed 2.000 units last month.

Buick deliveries were up 10 percent year over year to 86,054

General Motors and its joint units in June. Demand for the Excelle GT sedan remained strong, exceeding 26,000 units. Demand for the brand's best-selling SUV, the Envision, increased 27 percent to more than 14,000 units.

Baojun deliveries more than doubled to 43,249 units in June from a year earlier, Shen said. Deliveries of both of its best-selling models, the Baojun 730 MPV and Baojun 560 SUV, exceeded 20,000 units.

Wuling deliveries advanced 8.1 percent to 99,017 units from the previous June. The Hong Guang MPV family remained popular, with demand surpassing 30,000 units. Demand for the Rong Guang V minivan was up 20 per-

Chevrolet deliveries were down 25 percent year over year in June to 35,648 units. The Malibu XL, Chevrolet's new flagship sedan launched in February, increased its momentum as it posted a 46 percent month-overmonth increase. The all-new Cruze passenger car will be launched this quarter.

Feds Warn of Honda Air Bag Danger

New test data on a particular drive these vehicles unless they subset of defective Takata air bag inflators in certain modelyear 2001-2003 Honda and Acura vehicles show a far higher risk of ruptures during air bag deployment, prompting an urgent call from the National Highway Traffic Safety Administration to ensure that unrepaired vehicles in this population are found and fixed before they cause further injuries or fatalities.

"With as high as a 50 percent chance of a dangerous air bag inflator rupture in a crash, these vehicles are unsafe and need to be repaired immediately," said U.S. Transportation Secretary Anthony Foxx. "Folks should not

are going straight to a dealer to have them repaired immediately, free of charge."

The higher-risk inflators are in certain 2001-2003 Honda and Acura vehicles:

- 2001-2002 Honda Civic;
- 2001-2002 Honda Accord;
- 2002-2003 Acura TL;
- 2002 Honda CR-V;
- 2002 Honda Odyssey; 2003 Acura CL;
- 2003 Honda Pilot.

While the vehicles are already under recall, NHTSA ordered Takata to perform additional ballistic testing following recent reports of ruptures, said NHTSA spokesman Bryan Thomas.

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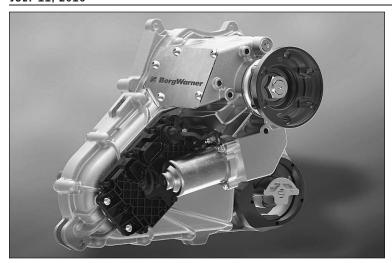




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Auburn Hills-based BorgWarner's innovative pre-emptive ondemand transfer case be be used in multiple Jaguar models, said Katva Pruett.

Initially available for the new Jaguar XF, BorgWarner will also provide the all-wheel drive (AWD) technology for the Jaguar XE and F-PACE crossover. Borg-Warner produces the AWD transfer case for the Jaguar XF at its newly built energy-efficient facility in Oroszlány, Hungary, Pruett said. Jaguar Land Rover is the first European automaker to feature BorgWarner's advanced AWD solution.

"We are pleased to expand our long-standing cooperation with Jaguar Land Rover by providing several vehicle models with our innovative pre-emptive on-demand transfer case," said Dr. Stefan Demmerle, president and general manager, BorgWarner PowerDrive Systems. "Our stateof-the-art AWD solution helps customers achieve their ambitious efficiency and weight tar-

gets, and enables accelerated development cycles. Additionally, the transfer case offers superior dynamic performance and drivability.

BorgWarner's pre-emptive ondemand transfer case directly connects to the vehicle's control systems, which monitor signals such as steering wheel angle, accelerator pedal position and wheel speed, Pruett said.

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The AWD transfer case also offers pre-emptive and precise linear clutch actuation for immediate response, enhanced vehicle traction and stability control.

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Metro Detroit Home to **Young Talent**

SME's Advanced Manufacturing Media of Dearborn named the honorees for its fourth-annual "30 Under 30" issue, celebrating young men and women who have demonstrated leadership, excellence and hard work in manufacturing on July 7, said SME spokesman Chris Mahar.

The July issue of Manufacturing Engineering magazine shares the stories of these 30 young manufacturing professionals and students. Among the standouts:

Fabian Bartos, 16, of Franklin Park, Ill., is the youngest honoree on this year's list. As a student at East Leyden High School, Bartos became passionate about 3D printing in an engineering class. In 2015, he was even tasked with printing a replica of the White House that was presented to President Obama at a Maker Education event.

Meanwhile, Mahar said Ashley Buchner, 30, of Fiat Chrysler, leads the Virtual Assembly Group for the automaker and uses motion capture suit technology. "A lot of people think we play with video games," she said, "but it's in a manufacturing setting. It's a cool and powerful tool, that's for sure."

In addition to his work as a field service engineer for ABB, Andrew Siwicki, 23, helped to program the robotic piano Lady Gaga played at this year's Grammy Awards. "Working with a robotics system is incredibly rewarding," he said. "It's amazing to see what robots can do."

Sarah Webster, director, content and strategy, Advanced Manufacturing Media, said it's important to bring attention to the high-tech work that young people in manufacturing and other related STEM fields are doing. "These talented and hardworking professionals and students prove that manufacturing is not only alive and well, but adapting and advancing," she said. "Their stories also demonstrate that a career in manufacturing can be important, rewarding and fun.'

Local winners are:

- Andrew Siwicki, 23, ABB Inc., Auburn Hills;
- Anselmo Gallegos, 27, General Motors, Detroit;
- Ashley Buchner, 30, Fiat Chrysler, Auburn Hills;
- Daniel Tunis, Fiat Chrysler, Auburn Hills;
- Edward Brabandt, 30, Systematic Manufacturing, Sterling Heights.

DIA is Funding Neighborhood Art Project

DETROIT (AP) - The Detroit Institute of Arts and a neighborhood organization have teamed up to help draw attention to the city's Osborn neighborhood as an arts destination.

A workshop was on July 9 as "Welcome to Osborn" project where people can paint on cellophane and watch artists work on a four-story-high, 34-foot-wide mural. Events for "Art in Osborn Day" take place across the street from the mural site on Detroit's east side.

The mural is being painted on a wall of the Matrix Human Services building by area artists Phillip Simpson and Tony Rave. This project is funded by a \$10K Knight Arts Challenge grant.

"We aim to support the alliance's goal of building a stronger sense of community pride by working with local artists and fostering the development of public art," Salvador Salort-Pons, the museum's director, said in a statement to the media.