Detroit Auto Scene

"FIRST IN THE HEART OF DETROIT"

VOL. 84 NO. 27



2017 Spiders at the Port of Baltimore for sale in U.S.

Fiat Spiders Hitting Market

more than 30 years ago, the iconic Fiat 124 Spider is back.

The first shipments of the new 2017 roadster have arrived at the Port of Baltimore and the Port of San Diego, and will be available at FIAT studios in North America this month, said Fiat Chrysler spokeswoman Angela Bianchi.

'After much anticipation, the all-new Fiat 124 Spider is here in the U.S. and will start to arrive at Fiat studios next week," said Bob Broderdorf, Director of Fiat Brand North America. "Just in time for the prime convertible season, customers will now have the opportunity to experience

Last sold in the United States our Italian-designed, fun-to-drive roadster for themselves."

Nearly 50 years ago, on Nov. 2, 1966, the original Fiat 124 Spider was introduced at the Turin Auto Show, Broderdorf said. Spider sales in the U.S. began in 1968 and concluded in 1985. Today, nearly 8,000 Fiat 124 Spiders are still registered in the U.S.

The new 2017 Fiat 124 Spider brings "classic Italian styling and proven performance" to a new generation of buyers, Broderdorf said.

Paying homage to the original 124 Spider, the new Spider delivers the "ultimate Italian roadster

CONTINUED ON PAGE 3

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) into 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 address 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 bone.

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."

sketches he saw really didn't 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 lacocca 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 he was just one sculptor who "In those days we had no ma- worked on the Mustang design.

"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 mil-

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



Ford supports the Michigan Science Center with Ford Fun Free Days.

Ford Promotes Girls, STEM

Ford Motor Company contin- live shows and interactive educaues its support of the Michigan tion." Science Center (MiSci), strengthening the center's ability to make Level sponsor of the STEMinista science, technology, engineering and math (STEM) programs accessible to all.

Additionally, Ford is a Genius

sporty theme," Zuccato said.

lion Mustangs.'

"No one person can claim that he designed the Mustang by himself," Zuccato said. "A lot of people might call me a designer, but I always say no, I am a sculptor. I played a part in the design of the front and back end of the first

CONTINUED ON PAGE 3

chines," Zuccato said. "There 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 two-dimensional designer's 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 Mustang.

'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."

"We were going for a young,



Zuccato said that the original Ford retired sculptor Giuliano Zuccato shows off his work.

"A good education focused on technical skills is essential for future innovation in business and increased prosperity for our communities," said Yisel Cabrera, community relations manager, Ford Motor Company Fund. "By opening more doors to STEM, Ford is confident more students will be drawn to science and technology not only because it is fascinating, but also because it's a lot of fun.

"Our mission at MiSci is to spark interest and imagination in STEM," says Tonya Matthews, the Michigan Science Center president and CEO.

"Every year we inspire nearly 300,000 curious minds of all ages and Ford's sponsorship allows even more visitors to experience STEM through hands-on exhibits,

Project, which is an initiative designed to increase the confidence, skill set and pursuit of STEM fields in 4th - 8th grade girls, Cabrera said.

Ford is committed to the success of the project and shares MiSci's goal to defy statistics, and raise expectations and interest in STEM among girls, Cabrera said.

Ford underwrote STEMinista Saturday Workshops and STEMinista Hack-a-Thon, Cabrera said. Additionally, they supported STEMinista Summer Camps, reducing the cost per camper and providing the opportunity for full scholarships.

With Ford's support, MiSci is hosting the following Ford Fun Free Days with free general admission over the next year.

A fun day is set for Aug. 13, 10 a.m. - 6 p.m. to celebrate Teachers' Appreciation Day.

View This Week's Edition at http://DetroitAutoScene.com

Detroit Auto Scene

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GM's Space-Age Glove Coming To Auto Plants

CONTINUED FROM PAGE 1

Bioservo Technologies AB is a leader in soft exoskeleton technology and 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 work aid, in healthcare and in the home by people with impaired muscular strength or in need of additional strength and endurance.

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 contribution by the European Commission.

Takata Air Bag Lawsuit in Japan Gets Settled

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

Nurse's Group Raises Money for Make-A-Wish Foundation

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 winners.'

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

GM Employee Car Show Coming

The 2016 UAW-General Motors 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 show ends on Friday, July 15.

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 gmemployeecarshow.com

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

"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

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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 said.

"This is a great charity and so 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 for the past four years.

"It's my way of giving back,"



A money tree raffle basket.

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."

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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.

Detroit Auto Scene

JULY 11. 2016

"FIRST IN THE HEART OF DETROIT SINCE 1933"

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 in 1988. He has his own studio.

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

He has titled his song "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.



This is a "1964 and a half" Mustang, which was the first model year.

seum in Bowling Green, Ky., " Zucatto 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 a NASCAR track.

"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 histori-"The Corvette has its own mu- an and speaks to many groups.

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 histo-

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

Fiat Spiders Hitting Market

CONTINUED FROM PAGE 1

experience with driving excitement, technology and safety combined with iconic" design, Broderdorf said.

The roadster comes standard with the proven 1.4-liter MultiAir Turbo four-cylinder engine, the engine's first application in a rear-wheel-drive vehicle, Bianchi said.

The engine delivers 160 horsepower and 184 lb.-ft. of torque on Classica and Lusso, 164 horsepower and 184 lb.-ft. of torque on Abarth, and is available with a six-speed manual transmission (26 mpg city/35 mpg highway) or a six-speed automatic transmis-

sion (25 mpg city/36 mpg highway).

The Fiat 124 Spider has a double-wishbone front suspension and rear multi-link suspension with stabilizer bars, and tuned electric-power steering system for enhanced driver handling and excellent fuel efficiency, Bianchi said.

Available safety features include Blind-spot Monitoring, Rear Cross Path detection and ParkView rear backup camera. Available technology and convenience features include passive entry with keyless go, Bluetooth connectivity, heated seats, and FIAT Connect with access to Pandora, Stitcher and Aha apps.

FEV Reaches New Milestone

Personal transportation for individuals with physical disabilities has become mainstream, and the demand for robust, feature-enabled technology that provides access to these vehicles continues to grow.

Since 2007, Auburn Hills-base FEV North America, Inc., has been working with BraunAbility, a provider of wheelchair-accessible vehicles, to come up with such solutions, said FEV spokesman Marc Harlow. FEV developed and provides the wheelchair ramp gateway module used in BraunAbility-converted Fiat Chrysler vans.

On July 5 FEV achieved the milestone of having supplied

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manage

25,000 modules, Harlow said.

"We promise our customers world-class quality and reliability when they purchase our products," says Jim Probst, director of Product Portfolio Management at BraunAbility, the global leader of wheelchair accessible vehicles. "The FEV components we incorporate in our vehicles allow us to keep that promise. FEV has proven to be an exceptional partner focused on quality and customer service."

Stephan Tarnutzer, FEV's North American vice president of Electronics, said that FEV places a heavy emphasis on ensuring customer satisfaction in every project FEV conducts.

Windsor Tunnel Project Snag

DETROIT (AP) - Planned renovations to the Detroit Windsor Tunnel are being delayed until 2017 so the project can be re-engineered.

Officials announced the updated timeline July 6 for the project, which includes a new concrete ceiling and is expected to lead to overnight closures.

The work was expected this summer, but Neal Belitsky, the tunnel company's president, says the revised schedule will delay closures until planned construction begins next year.

The tunnel was finally opened

for use by the public back in the year 1930.

Other planned updates are to include electrical, communications, lighting and masonry work to the structure.

The work is a continuation of more than \$50 million in investments the tunnel company says it has made to the tunnel since the year 1998.

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Belitsky has said that the tunnel's current ceiling is fine, but that it's the original concrete slab that was installed in the 1920s.

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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 restoration.

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 Mc-Donald's Corporation.

The aircraft will be displayed at the Pacific Aviation Museum once the restoration is completed.

FANUC America Appoints New President, CEO

FANUC America Corporation, a supplier of CNC, robotic and factory automation technologies, named Mike Cicco was named on Juyly as the company's president and Chief Executive Officer (CEO).

As President and CEO, Cicco will have responsibility for all of the company's operations in North and South America. In addition, Rick Schneider has been named Chairman of FANUC America and will continue in his role as a board member of parent company, FANUC Corporation, said FANUC spokeswoman Cathy Powell.

"I am excited and honored to take on this role, and I look forward to working with Rick and our talented senior leadership team to achieve our future growth objectives," said Cicco.

Cicco joined FANUC in 1999 and has held a variety of man-

agement positions over the years including software/controls manager and district sales manager at the company's Southern California facility.

In 2005, Cicco transferred to FANUC's headquarters in Rochester Hills to take on the role of national account manager of the company's Authorized System Integrator sales group. As his career progressed, Powell saidhe was named general manager of several robot division groups including Material Handling Engineering, Authorized System Integrator sales and Domestic Automotive/Michigan Regional sales. In 2015, Cicco was promoted to vice president of FANUC's North and South American sales and execution. In April 2016, Cicco was named president and COO.

Before joining FANUC, Cicco served as lead automation engineer in Northrop Grumman's Automation and Information Systems group. JULY 11, 2016



Pietro Gorlier (center), Dave Taylor with first customer Debbie Emling.

Mopar Has 1,000 Stores

quick, convenient, no-appointment-needed quality service offered at many Fiat Chrysler dealerships, is celebrating a major milestone: the opening of the 1,000th Mopar Express Lane store in the United States.

Pietro Gorlier, head of Parts and Service (Mopar), FCA - Global, attended the grand opening of the new Express Lane store, located in Bradley, Ill. on July 6. Store owner David Taylor and local dignitaries joined Gorlier in a ceremony welcoming the first official customer at the landmark 1,000th store.

Reaching our 1,000th operational Mopar Express Lane location reinforces the commitment of our brand and our dealerships to providing a top-notch customer experience," said Gorlier. "Most Mopar Express Lane outlets are also open on Saturday. providing owners with plenty of options to fit vehicle maintenance into their busy schedules. And with Magneti Marelli Offered by Mopar products, our Express Lane stores can service not just FCA US vehicles but all major makes. With its premium amenities, this Express Lane sets a new standard in customer service."

This latest 12,500-square-foot Express Lane facility offers unique appointments, including a lounge area with concierge service, charging stations and Wi-Fi to keep connected, a complimentary car wash and additional perks, such as complimentary nail service once a week to

Mopar Express Lane, the pamper customers as they wait. As with most Express Lane outlets, the location also offers weekend hours. The facility utilizes premium products, such as Pennzoil and Magneti Marelli Offered by Mopar products.

"We're honored to open our garage doors today as the 1,000th Mopar Express Lane store," said owner Taylor. "This facility was developed with a customer-centric approach and we trust our clients will love the exclusive amenities, convenient service and the confidence that comes from having their vehicles maintained by factory-trained technicians.³

The new facility also represents the first official offsite stand-alone Express Lane store. Taylor also owns Taylor Chrysler Dodge Jeep Ram, located in Bourbonnais, Illinois, a few miles away from the new Express Lane outlet, Gavilan said. All previous Express Lane stores have been incorporated into a dealership's primary location.

As part of the celebration, twotime NHRA Funny Car champion Matt Hagan met fans and sign autographs from 4 to 7 p.m. at the grand opening, with Hagan's Mopar Express Lane Dodge Charger R/T Funny Car on display, Gavilan said.

First introduced in spring 2008, Gavilan said Mopar Express Lane offers oil change and light maintenance service done fast and done right. Each visit includes a complimentary multipoint vehicle inspection.



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DETROIT AUTO SCENE



GM's China Sales Strong

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General Motors and its joint units in June. Demand for the Exventures 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

Feds Warn of Honda Air Bag Danger

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

New test data on a particular drive these vehicles unless they 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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celle GT sedan remained strong,

exceeding 26,000 units. Demand

for the brand's best-selling SUV,

the Envision, increased 27 per-

from a year earlier, Shen said. De-

liveries of both of its best-selling

models, the Baojun 730 MPV and

Baojun 560 SUV, exceeded 20,000

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 Mal-

ibu XL, Chevrolet's new flagship

sedan launched in February, in-

creased its momentum as it post-

ed a 46 percent month-over-

month increase. The all-new

Cruze passenger car will be

launched this quarter.

Baojun deliveries more than doubled to 43,249 units in June

cent to more than 14,000 units.

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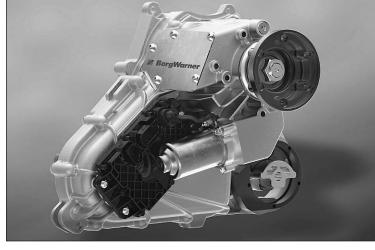


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JULY 11, 2016



BorgWarner's compact and lightweight on-demand transfer case.

BorgWarner's Technology Used in Modern Jaguars

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.

To optimize AWD function, pressure from BorgWarner's patented lightweight centrifugal electro-hydraulic actuator (CEH) compresses the clutch pack to distribute torque between the front and rear axle as it is needed.

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

In addition, it is equipped with BorgWarner's HY-VO transfer case chain, which is optimized for high efficiency and durable performance.





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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, 25, Fiat Chrysler, Auburn Hills;

• Edward Brabandt, 30, Systematic Manufacturing, Inc., Sterling Heights.

DIA is Funding Neighborhood Art Project

DETROIT (AP) - The Detroit



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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.