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JULY 17, 2017



Marquardt shows second-grader Kyla Washington electronic coloring.

Chrysler Community Event Helps Public in Summer

The Joseph Walker Williams Recreation Center in Detroit on July 11 was home to one of the five Fiat Chrysler "Meet Up & Eat Up" events that the company has planned for the summer.

Throughout June, July and August, Fiat Chrysler has planned five "Meet Up & Eat Up" gatherings, said Fiat Chrysler spokeswoman Christina Biache. These events are meant to educate the public and promote the idea that when school is out, kids can still come and have access to healthy

Sara Gold, director of the United Way of Southeastern Michigan's "Healthy Kids" program said that over the summer the United Way will have about 700 different locations in Wayne, Oakland and Macomb counties where kids under the age of 18 can go and get a meal.

"Basically we try to have a place where kids can get meals anyplace where children regularly gather," Gold said. "The food itself comes from federal student

CONTINUED ON PAGE 3

Corvettes Proves to be a Real All-Star Car

The 2017 Major League All-Star Game was good news for the American League, thanks to a timely home run Robinson Canó, who was rewarded by Chevrolet with a brand new Corvette as the game's MVP.

The 2017 Ted Williams All-Star Game Most Valuable Player, Robinson Canó, chose a Chevrolet Corvette Grand Sport during the MVP award ceremony presented by Chevrolet at Marlins Park in Miami on July 11, said GM spokeswoman Afaf Farah.

Chevrolet gave Canó, who went 1-for-2 in the contest with a home run. RBI and a run scored. his choice between the 460horsepower Corvette Grand Sport or the trail-ready Colorado ZR2.

This is Canó's first All-Star MVP award and the third Seattle Mariners player, joining Hall of Famer Ken Griffey Jr. (1992) and Ichiro Suzuki (2007). His solo home run at the top of the 10th inning proved to be the gamewinner, Farah said.

"Robinson Canó turned in a tremendous performance tonight and is an excellent example to all baseball fans, and especially our kids, that hustle, determination and teamwork are what wins. and that is why Chevrolet is proud to present the MVP award," said Brian Sweeney, U.S. vice president of Chevrolet.



Chevy's Brian Sweeney with MVP Cano and his new 'Vette Grand Sport.

Chevrolet has been the Official Vehicle of Major League Baseball since 2005 and through its Chevrolet Youth Baseball program has donated more than 135,000 equipment kits, renovated more than 9,400 parks and impacted more than 6.7 million boys and girls across the United States.

"At Chevrolet, we appreciate the positive effect that playing sports has on our kids and that is why it is so important for our brand and our dealers to support baseball at every level," said Sweeney.

The Corvette Grand Sport that Canó chose features heritage-inspired design cues combined with a track-focused chassis and suspension elements that build on a legacy established in 1963, when five Grand Sport race cars were built under the direction of the Corvette's first chief engineer, Zora Arkus-Duntov, Farah said.

The Grand Sport Corvette offers both speed and power with an estimated 0 to 60 mph performance of 3.6 seconds and quarter-mile capability of 11.8 seconds at 118 mph, with the available Z07 performance package and available paddle-shift eight-speed automatic transmis-

Experts: Flexibility Key to OEM Survival

by Jim Stickford

The auto industry is in the midst of undergoing the greatest amount of change since the

And that means in the next few years there will a whole lot of new players in the industry, said analysts from AlixPartners Global, a company that analyses industries around the world for private clients.

The Alix speakers addressed the Automotive Press Association at the Deteroit Athletic Club on July 11 during a special presentation. They were John Hoffecker, global vice-chairman of Alix; and Mark Wakefield, global co-head of Alix's Automotive Practice.

Hoffecker began the talk by saying that Alix's current automotive research paper is 1,200 pages long. They put one out every two years. And right now the industry is seeing a bridge to the future based on the CASE principle driving future develop-

CASE, Hoffecker said, stands for Connectivity, Autonomous, Shared Mobility and Electric.

The development of these technologies and business models has introduced a lot of new players into the auto industry, Hoffecker said. Companies like Apple, Google and Samsung. They do not come from the traditional automotive business chain and have access to huge amounts of capital.

"They've basically eliminated the balance sheet," Hoffecker said. "These new competitors get funding from the rest of their businesses. It's a whole different world out there.'

Alix believes that under this new automotive ecosystem, companies that rely on traditional auto-industry approaches are falling behind, Hoffecker said. They should really consider revamping their business models.

Moves where a traditional OEM like Fiat Chrysler works with a new Silicon-Valley company like Waymo to develop new technology is the future, Hoffecker said. Automakers will have to act more like electronics companies if they want to survive.

Alix currently sees 195 partner-



Hoffecker, standing, with Wakefield of Alix talk of the future of cars.

ships among suppliers, OEMs and new players to the auto industry. They area all pursuing CASE technology.

"Whoever gets to true autonomous systems first that truly

CONTINUED ON PAGE 8

Woodward Dream Cruise Ford - a Perfect Match Ford is building on its rich histhusiasts of all ages in the birth-

tory of iconic cars and community building as presenting sponsor of the 2017 Woodward Dream Cruise, America's largest annual celebration of automotive history and culture, said Ford spokesman Sam Schembari.

This year's Woodward Dream Cruise takes place Aug. 19 and is expected to attract more than 1.2 million people and 40,000 cars.

"Dream Cruise is all about the sheer joy and freedom of the automobile, and Ford has always celebrated car culture," said Mark LaNeve, Ford vice president, U.S. Marketing Sales and Service. "From Fiesta to GT, we're obsessed with making driving fun and we're committed to celebrating that passion with enplace of motoring."

In addition to backing the Dream Cruise, Ford is also bringing back Mustang Alley for its 19th year, Schembar said.

This year's Mustang Alley will be the largest ever, featuring even more examples of the iconic muscle car, including the new 2018 Mustang, which hits dealer showrooms later this year. All Mustang owners are welcome to take part in this celebration by registering for Mustang Alley

Ford Mustang has long held a special place in the history of American cars and the Woodward Dream Cruise, Schembar

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Ford is expanding its presence at the Woodward Dream Cruise by becoming its official sponsor.

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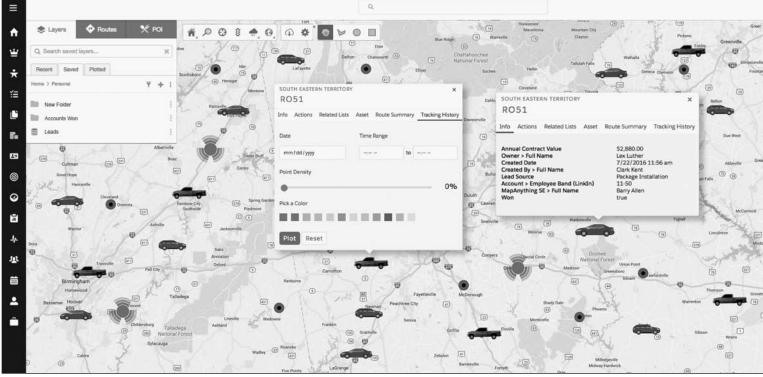
Capterpillar Gives BorgWarner Quality Awards

Two BorgWarner turbocharger manufacturing facilities achieved recertification under Caterpillar's Supplier Quality Excellence Process (SQEP).

BorgWarner's facility in Ningbo, China, received platinum certification for 2016, the program's highest honor and a first for a Caterpillar turbocharger supplier in China.

facility BorgWarner's Asheville, North Carolina, received recognition for two product segments. For new original equipment turbocharger production, the facility was awarded silver certification for 2016, following bronze certification 2015. For remanufactured (REMAN) turbocharger production, the facility received gold certification for 2016, after earning bronze certification in 2015.

Caterpillar created the SQEP to recognize those suppliers that demonstrate their commitment to excellence, and drive a "zero defects" culture within their organizations.



GM's new App will help fleet operators keep track of their vehicles thanks to 4G LTE technology.

New Connectivity Solution Helps GM Fleet Customers

General Motors Fleet customers can spend more time interacting with clients thanks to a strategic agreement with MapAnything, Inc., a provider of geo-productivity and intelligence for busi-

MapAnything, a Salesforce Ventures Portfolio company, has launched MapAnything Live to GM Fleet customers, said GM spokeswoman Rita Kass-Shamoun.

It's a new connectivity solution that combines telematics fleet management and customer relationship management (CRM) software to streamline routes and automate critical business processes

The solution is available by subscription and is powered through GM's OnStar embedded hardware.

"In-vehicle 4G LTE," said Ed muting to customer meetings, ac- hicle use and diagnostics – such Peper, U.S. vice president, GM Fleet, "is fueling double-digit annual growth in the multibilliondollar market for fleet management software, and it's helping Chevrolet and OnStar win new

'We are expanding our relationships with technology companies because customer interest is so high. The reasons are simple and compelling. Inside the data streams are the critical insights fleet managers need to help their drivers stay safe and productive, and their operating costs as low as possible.

Nearly a third of sales managers estimate their representatives spend less than half their time actively selling because of time lost to scheduling and comcording to data from a survey conducted by MapAnything and Selling Power.

MapAnything Live, powered by OnStar, said Peper, aims to increase active selling and/or service time for sales representatives, field service and delivery drivers by helping fleet managers optimize fleet and field team productivity through:

 Customer Relationship Management, which automates key business processes - including work order creation, case status changes and invoice creation based on the vehicle's proximity to a customer - and enables geoproductivity intelligent routing and scheduling based on Salesforce and telematics data.

• Telematics, which tracks ve-

as vehicle location, idle time, fuel tank capacity, speed, ignition state, hard braking/acceleration and more - and optimizes routes based on traffic, time of day, business priorities, etc.

"By coupling our geo-productivity expertise with General Motors' extensive fleet scale and vehicle connectivity, we're bringing our solutions to even more businesses," said MapAnything CEO John Stewart.

"Using MapAnything Live, they'll be able to harness their fleet location within CRM to unlock new levels of efficiency."

MapAnything Live is another example of how GM Fleet has the most comprehensive offering of fleet connectivity services in the industry, said Shamoun.

DTE Celebrates Opening of Beacon Park Reflecting a park's mission to

bring light, energy and motion to west central downtown, DTE Energy's Beacon Park will officially open on July 20, said DTE spokeswoman Teresa Siavrakas. Beacon Park - located on Cass

Avenue and Grand River in Detroit - adjacent to DTE Energy's headquarters campus, will have an opening celebrated with four days of grand opening events that include live music, a night market and family entertainment, Siavrakas said. One of the attractions will be a replica of the "Back to the Future" DeLorean.

"The name is fitting," said DTE Energy Chairman and CEO Gerry Anderson. "From the beginning, we envisioned this public space would shine light on the western edge of downtown Detroit, becoming a beacon for development, a beacon to bring more visitors and businesses to Detroit. and a beacon of continued progress for a city in the midst of revitalization."

Both the park's location and its distinctive amenities have been designed to help spur development in the area. Sited between the entertainment district - home of Little Caesar's Arena, Comerica Park and Ford Field.

Through a grant from the DTE Energy Foundation, more than 600 events will be planned for Beacon Park in 2017 by the Downtown Detroit Partnership (DDP), which expects that the public space will attract one million visitors each year. Nearly 50 events are planned for Beacon Park's Grand Opening weekend,

July 20-23. Safe and vibrant gathering places are the social and economic heartbeat of a thriving core, and Beacon Park expands the energy of renewal permeating downtown," said DDP CEO Eric Larson. "The Downtown De-



This DeLorean will be a part of the Beacon Park opening celebration.

troit Partnership is thrilled to partner with DTE Energy to add Beacon Park to the portfolio of the great public spaces we program, maintain and manage.'

Grand Opening Highlights: Thursday, July 20

- Ribbon Cutting DTE Chairman and CEO Gerry Anderson, Mayor Mike Duggan and City Council President Brenda Jones will officially open the park at the 11 a.m. celebration.
- Grand Opening Park opens to the public at noon with food trucks, live music, games and an interactive exhibit from IMPULSE from Quartier Des Spectacles.

Friday, July 21

- Downtown Games Come Play Detroit will pit rival DTE Energy and other downtown employers against each other in fun active competitions, open to the public to watch, noon-5 p.m.
- Beer Garden Griffin Claw craft and specialty beer, live music and lawn games, 5-8 p.m.
- Musical entertainment American indie rock band Lord Huron headlines, 8 p.m.

Saturday, July 22

• Family Day – Fun for all with games, inflatables, make and takes, and face painting, plus a GVSU Charter school art fair, performances by Matrix Theatre Company, Ballet Folklorico, Movocayani Izel, Detroit Youth Volume, Nadanta, Mosaic Youth Theatre and Detroit Windsor Dance Academy, Noon-6 p.m.

• Night Market - Detroit's first ever Night Market will showcase the best of local indie music, food trucks, drinks, lawn games, and shopping from up-andcoming local makers and entrepreneurs. Noon until 11 p.m.

Sunday, July 23

- Fitness A morning full of energy with Detroit's first outdoor spinning experience featuring a LIVE DJ, plus yoga and a cardio workout, 9-11 a.m.
- Classical Concerts Nationally-recognized, Detroit-based chamber orchestra Sphinx Nonet presents an ensemble performance, 3-4 p.m.
- Movie Music Spectacular A performance by Michigan Philharmonic leads up to a special screening of "Back to the Future" with a Car Display/Photo Opp. for guests to sit in a replica of the "Back to the Future" Delorean with Doc and Marty McFly, 6-8:30 p.m., couresty of Manning Entertainment LLP.



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Kids got to play with less technologically advanced gear as well as high-tech touchscreens thanks to FCA.

Chrysler Summer Program Helps Children

CONTINUED FROM PAGE 1

food programs. But the with no school in summer we put additional resources together for this program. That's why we're glad to partner with companies like FCA to help promote what we do and let people know where to go

As part of its promotion efforts, FCA is holding five "Meet Up & Eat Up" promotions, said Biache, one of which was held at the Williams Rec Center in Detroit on July 11. The event was well attended by organizations seeking to help and the public.

Fiat Chrysler brought its traveling training vehicle to the Williams Rec Center. It's normally used for going to different Fiat Chrysler plants in the Midwest and contains computers and other equipment that is used to

Probes Continue In Volkswagen **Diesel Scandal**

DETROIT (AP) - A former highlevel executive for Volkswagen's Audi luxury brand has been charged with conspiracy and accused of directing other employees to program vehicles to cheat on emissions tests.

The Justice Department says Giovanni Pamio, an Italian citizen, was charged June 6 in a criminal complaint with conspiracy, wire fraud and violating the Clean Air Act. It was unclear whether he was in custody.

The complaint says Pamio was head of Thermodynamics in Audi's Diesel Development Department in Germany, leading a team of engineers who designed emissions controls. It says he directed employees to design software that would cheat on U.S. EPA tests. VW already has pleaded guilty to criminal charges and agreed to pay a \$2.8 billion fine.

On July 10 German prosecutors said they opened an investigation into employees of Porsche, which is a unit of Volkswagen AG, and an American subsidiary over the possible manipulation of diesel emissions.

Stuttgart prosecutors said they are investigating suspicions of fraud and making false claims. They said that the investigation is against persons unknown who were employed by Porsche and a U.S. unit which it did not identify.

train Fiat Chrysler employees in the latest techniques used in Fiat Chrsyler's World Class Manufacturing (WCM) processes.

On July 11, the vehicle was converted into something where children could see and play with computers and tablets. Volunteers also set up a table where kids could be kids and play with the more traditional glue, construction paper and glitter.

Wendy Santure, a training and development lead at Fiat Chrysler's WCM Training Center in Warren, volunteered her time and showed the children the equipment.

"At this event we brought a 'smart board' where kids could color in a Jeep," Santure said.

The smart board is basically an interactive large computer touchscreen. Santure said. There is a black and white drawing of a Jeep in the center of the screen. Above the Jeep, there are several different colored boxes. The children then touch a colored box, and then touch a part of the

The section they touched is filled in with the same color of colored box the child touched.

Once all the sections of the Jeep are filled in with colors, Fiat Chrysler volunteers print a hard copy of the Jeep and give it to

Santure said it's a sort of 21st century way for kids to color without having to use crayons.

"I've been to two of these events already," Santure said. "The coloring Jeep program is always fun for the kids. The tech we bring to these events isn't something small children may have had a chance to see yet. It's a real joy to expose these children to this technology. Hopefully, it will inspire them in the future. And, hey, who doesn't like to color?

Greg Marquardt, a Fiat Chrysler WCM trainer, said the kids get a real kick out of the tech and it's fun to teach them how to use it. The next "Meet Up & Eat Up" event was at Jimmy Paul's Boxing Gym in Detroit, Santure said, a couple of days after the Williams Rec Center event.

"I know what people think," Santure said. "A boxing gym? But Jimmy Paul's is more of a neighborhood place. Kids go there and they have something to do. It's a great place."

Takata Airbag Troubles Force More Recalls

DETROIT (AP) - Takata is fects just over 515,000 Versa subadding 2.7 million vehicles from Ford, Nissan and Mazda to the long list of those being recalled to replace potentially dangerous air bag inflators.

The inflators are a new type that previously was thought to be safe. Vehicles affected are from the 2005 through 2012 model years.

Takata inflators can explode with too much force and spew shrapnel into drivers and passengers. At least 17 people have died and more than 180 injured due to the problem. The inflators have caused the largest automotive recall in U.S. history with 42 million vehicles and up to 69 million inflators being called back for repairs.

Takata uses the chemical ammonium nitrate to inflate air bags. But it can deteriorate when exposed to high airborne humidity and high temperatures. Previously the company believed that a drying agent stopped the chemical from degrading and the inflators were safe.

But the National Highway Traffic Safety Administration says in a statement Tuesday that tests done by July 11 show that for the first time, a type of desiccated inflator "will pose a safety risk if not replaced." The agency says it has no reports of any inflators with the desiccant rupturing.

Nissan said the new recall af-

compact hatchback and sedans from the 2007 through 2012 model years. Mazda said its recall covers about 6,000 B-Series trucks from 2007 through 2009. Ford, which has the most vehicles involved in the latest recall, is reviewing the information and will file a list of models within the five days required by law.

Takata said in documents filed with the safety agency that it tested inflators returned from Nissan and Ford vehicles which use calcium sulfate as a drying agent. Although none of the inflators blew apart, some showed a pattern of deterioration in the ammonium nitrate propellant over time "that is understood to predict a future risk of inflator rupture."

NHTSA said in a statement that not all Takata inflators with a desiccant are being recalled. Takata used different drying agents in other inflators, the agency said.

The latest recall raises doubts about the safety of other Takata Corp. inflators that use ammonium nitrate and drying agents. The company has agreed to recall all original equipment inflators without a drying agent in phases by the end of 2018. NHT-SA gave Takata until the end of 2019 to prove that inflators with the drying agents are safe, or they must be recalled as well.

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U.S. Accuses an Audi Exec over Diesel Scandal

DETROIT (AP) - U.S. authorities have accused a former executive of Volkswagen's Audi luxury brand of giving orders to program diesel engines to cheat on emissions tests.

Giovanni Pamio, 60, an Italian citizen, is accused of being a leader in a conspiracy that was part of an embarrassing scandal that has cost VW more than \$20 billion in criminal penalties and lawsuit settlements. He's the eighth ex-VW employee charged in the case that is being investigated by the FBI and the Environmental Protection Agency's criminal unit.

One of the employees is scheduled for sentencing later this month, another is in custody in the U.S. and five others are German citizens.

Volkswagen has admitted that VW, Porsche and Audi vehicles with 2-liter and 3-liter diesel engines were programmed to turn pollution controls on during government treadmill tests and turn them off while on the road. The scheme went on for years before being discovered in tests conducted by West Virginia Univer-

Tesla Model 3 in Production

WASHINGTON (AP) - Electric automaker Tesla has produced its first Model 3 sedan, a highly anticipated car because it carries a relatively low sticker price.

CEO Elon Musk late July 8 tweeted pictures of the car, which will cost \$35,000 and can travel 215 miles on a single elec-

A \$7,500 federal tax credit for electric vehicles would lower the cost of the vehicle to as little as \$27.500 for customers who have decided to purchase the new ve-

The new model comes after a bad week for Tesla's stock price.

Shares fell roughly 14 percent after Musk tweeted that deliveries of the company's other two models - the Model S sedan and Model X SUV - were at the lowend of the company's projections that were made in the first half of this year.

Musk also said the company would make 20,000 Model 3s in December, below previous esti-

Musk earlier had said Tesla would make 10,000 Model 3s per week by December.

Musk also has said the Palo Alto. California-based company will hold a party to hand over the first 30 Model 3s to customers on

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July 28. Tesla expects to produce 100 cars in August and more than 1,500 in September, Musk tweeted earlier.

While second-quarter deliveries rose 53 percent from a year ago, they still were about 12 percent below first-quarter deliver-

Tesla said in a statement that second-quarter production was hampered by a severe shortfall of battery packs.

Production averaged 40 percent less than demand until early June, the company said to the media.



The Tesla Model 3 sedan is coming soon to the public.

Tesla is Expanding Service Operations

by DEE-ANN DURBIN AP Auto Writer

DETROIT (AP) - Electric car maker Tesla is expanding its service operations and hiring more than 1,000 technicians to meet expected demand for its new Model 3 sedan.

The Model 3, cheaper than Tesla's existing cars, goes on sale this month and is expected to attract hundreds of thousands of new customers to the brand.

To accommodate them, the company is adding 100 new service centers worldwide over the next year, bringing its total number of service centers to 250. The new service centers will be in areas that have the most reservation-holders for the Model 3.

Tesla also is adding 350 vans to its mobile service fleet, mostly in the U.S. The vans go to owners' homes or offices and repair their cars while they wait, typically for about one hour. The vans are equipped with tools and replacement parts as well as an espresso machine, snacks and kids' tovs.

Until now, Tesla had around 30

used mostly in cases where the owner lived too far from a service center. About six months ago, the company began deploying the vans in the San Francisco area in order to ease the burden on its service centers and see if they could help meet anticipated demand for the Model 3. Customers were happy with the new arrangement, so the company decided to roll out mobile service in more locations.

At a starting price of \$35,000, the Model 3 is about half the cost of Tesla's two other models. Tesla hasn't said how many people hold refundable, \$1,000 reservations for the car, but it has said it expects to make 500,000 vehicles in 2018. That's up from 84,000 last year.

Like its stores, which are owned by the company and not by franchised dealers, Tesla has upended the auto industry with its service model. Tesla CEO Elon Musk said several years ago that unlike traditional dealerships, Tesla didn't intend to make a profit on service and repairs. U.S. dealers made \$110 billion in service and parts sales last year, according to the National Automobile Dealers Association.

Tesla said it's charging the same amount for non-warranty repairs done at service centers or through mobile vans. It hasn't released details on the warranty plan for the Model 3, so it's not yet clear if it will match Tesla's other vehicles. The Model S and Model X have a four-year, 50,000mile vehicle warranty and an eight-year battery warranty with unlimited miles.

Unlike traditional dealers, Tesla also doesn't want customers to have to go to a service center for repairs that can be done re-

The company says 80 percent



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mobile repair vans, which were of repairs to its cars, including replacing the tires or fixing electronic glitches, can be done without a lift, which means it's just as easy to perform them out of a mobile repair van. That leaves service centers free to concentrate on more complicated repairs that require a lift, like motor or battery problems.

Tesla is hiring 1,400 new service technicians this year to staff the service centers and mobile repair vans.

Roger Penske Returning to Sports Racing

CHARLOTTE, N.C. (AP) Roger Penske will return to sports car racing next year with two Prototype DPi entries in the IMSA WeatherTech SportsCar Championship.

Team Penske will partner with Acura Motorsports for the twocar effort. Penske will field Acura ARX-05 Daytona Prototype international entries.

No driver lineup was announced, but Penske will need four full-time drivers. He's openly said he'd like three-time Indianapolis 500 winner Helio Castroneves and two-time Indv winner Juan Pablo Montoya to be part of the program.

Castroneves is coming off a win July 9 at Iowa - his first victory in three years.

He's also second in the Indy-Car standings.

Team Penske last competed in IMSA from 2005 through 2009. The team won the P2 class championships in the American Le Mans Series between 2006 and 2008 and fielded a Grand-Am Rolex Sports Car Series entry in

Acura Motorsports currently campaigns the Acura NSX GT3 in the WeatherTech Championship GT Daytona category Michael Shank Racing. Shank won at Detroit Belle Isle and Watkins Glen International earlier this season.

Acura will join Cadillac, Mazda and Nissan in the WeatherTech Championship Prototype class.

Testing of the Acura DPi will begin soon, with the official competition debut set for the seasonopening Rolex 24 at Daytona in January 2018.

Industry





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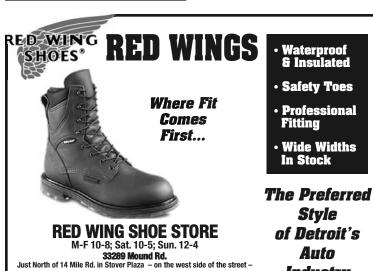
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Mopar Driver Earns More Race Victories

Mopar driver Ron Capps continued his dream season during the NHRA Route 66 Nationals July 9, picking up his sixth win of 2017 in his Dodge Charger R/T Funny Car as the NHRA Mello Yello Drag Racing Series schedule kicked off its second half.

Funny Cars featuring Mopar Hemi power from Don Schumacher Racing (DSR) have now won an amazing 12 of 13 events this year and 10 in a row.

Mopar has also now claimed wins in 14 consecutive events across the Funny Car or Top Fuel categories, dating back to last year's NHRA Finals at Pomona. In addition, John Force is the only non-Mopar driver to have won an NHRA Funny Car event since last September's U.S. Nationals.

Yet despite the team's success, it was an emotional weekend for DSR and the entire NHRA community at Route 66 Raceway as it mourned the loss of Terry Chandler. Chandler funded both DSR Mopar driver Tommy Johnson Jr.'s and teammate Jack Beckman's teams, but put charities Make-A-Wish and the Infinite Hero Foundation on their cars as a way to give back.

The beloved sponsor succumbed to brain cancer after a valiant fight earlier in the week.

During Sunday's final round at Route 66 Raceway, Capps bested his motivated teammate Johnson from the left lane with a pass of 4.026 seconds at 319.67 mph after a .059-second reaction time. Johnson made a lap of 4.047 at 319.90, but was just late on the Christmas Tree with a reaction time of .155.

The win was the 55th of Capps' career. The defending Funny Car champion has now won six of the last nine races this year, while having advanced to a total of eight final rounds on the season. He also extended his already large points lead on Sunday after improving to a staggering 35-7 record.

Capps began his day by knocking out Jonnie Lindberg in round one, and then took on fellow Dodge driver Jim Campbell, who had bested No. 1 qualifier Robert Hight. Capps turned in a comefrom-behind, second-round win against Campbell, getting away first but with a cylinder out at the hit of the throttle. He lost ground but came back to defeat his opponent when Campbell lost traction at half-track. Capps then beat teammate Matt Hagan on a clean, side-by-side run to reach the final round against Johnson.

Tommy Johnson Jr. and the Make-A-Wish Dodge Charger R/T team first dispatched of John Force on a clean pass as the 16time champion smoked his tires and lost traction. Johnson then improved his record to 3-0 against J.R. Todd.

New Contracts Keeps Auto Show At Cobo till 2025

DETROIT (AP) - Officials say an eight-year contract will keep the North American International Auto Show at downtown Detroit's Cobo Center to 2025.

The agreement to keep the annual event at its current location was announced July 11 by officials with the convention center and SMG, which provides facility management services.

The auto show's Executive Director Rod Alberts says in a statement that Cobo Center is a "world-class venue" that benefited from \$279 million in recent renovations. An earlier agreement to keep the show at Cobo Center for five years was signed in 2012.





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Selfridge Celebrates First 100 Years While Planning Future



Jets came to Selfridge as early at the late 1940s with the F-80 jet.

by Jim Stickford

The Selfridge Air National Guard Base in Mt. Clemons is celebrating its 100th anniversary this year.

The base, which got its start just months after the United States' entry into World War I, is now seeking to become a home to the military's F-35 jet.

According to the Selfridge Military Air Museum, part of the war effort back in 1917 saw the establishment of an airfield in the swampy lowlands between the eastern city limits of Mount Clemens and Lake St. Clair.

Museum records show that military aircraft piloted by members of the 8th and 9th Aero Squadrons were first seen aloft over the city on July 9.

After training thousands of aerial gunners and hundreds of aircraft mechanics during World War I, Selfridge Field was nearly closed during the post-Armistice draw down, according to museum records. However, its importance and potential value was evaluated and outright purchase of the installation in 1921 was recommended.

The following year opened a new and exciting chapter when the First Pursuit Group, a highly decorated organization which numbered among its members several World War I aerial aces, made Selfridge Field its new headquarters.

Museum records show that the First Pursuit Group would spend the next two decades "dazzling" the public with aerial feats.

They performed operational testing for dozens of new aircraft, competed boldly in air races, and set record after aviation record.

General Curtis LeMay recalled in his memoirs his excitement when, as a young lieutenant with newly minted wings, he received orders for Selfridge Field and an opportunity to rub elbows with the "First Team."

General H. H. "Hap" Arnold commented that it was the ambition of every air corps pilot to serve at Selfridge, according to museum records.

on Dec. 7, 1941 and thus the beginning of World War II for the United States, precipitated the departure of the First Pursuit Group, thus changing the mission of Selfridge Field. The installation soon became home to in the new technology and was newly formed units and raw recruits received basic training

The 332nd Fighter Group, also known as the Tuskegee Airmen. attended advanced combat training at Selfridge Field, according to museum records.

Following the war, in 1948, sixteen F-80 jet fighters from the 56th Fighter Group demonstrated to the Soviet Union and the world their ability to deploy quickly across the Atlantic when they completed the first west-toeast transatlantic jet crossing in just over nine hours, Museum records show. When war erupted in Korea, members of this organization were among America's

In 1955, the Air Defense Com-

mand took the initiative to return units to their historic bases, prompting the return of parts of the First Pursuit Group, now designated the First Fighter Wing, to Selfridge Field.

The First Fighter Wing remained at Selfridge for another 15 years, though the base was already entering another phase of its history, which would culminate in the transfer in 1971 from the U.S. Air Force to the Michigan Air National Guard.

Under the Michigan Air National Guard, Selfridge served as the host organization, serving as a model of a successful joint-services installation with units from all five branches of the armed forces represented within its gates.

Selfridge Field was named in memory of Thomas Etholen Selfridge (1883-1908) in San Francisco, a graduate from the United States Military Academy at West Point with the class of 1903. Lt. Selfridge was 31st in his class of 96, ranking well below the valedictorian, Douglas MacArthur (1880-1964).

After receiving his commission, Selfridge was assigned to the field artillery and then was attached to the U.S. Army Signal Corps, where he had an opportunity to explore the potentials of military aviation and joined Dr. Alexander Graham Bell in his experiments with kites with great lifting capacity.

He also became involved in designing and building early aircraft. On September 17, 1908 while conducting trials of the Wright airplane he went aloft with Orville Wright. On that day, flying about 150 feet from the ground over Fort Meyer, Virginia, Wright put the plane into a steep

The wing flexed and the propeller blade snapped off and the plane, out of control, crashed. Lt. Selfridge died that afternoon, the first man killed in a heavier-thanair flying machine. Orville Wright was hospitalized for several

Local historian Dan Heaton has written about Selfridge's his-The bombing of Pearl Harbor tory. He said the first base commander was Bryan Q. Jones was also a West Point graduate. He was a cadet there when Selfridge was an instructor, Heaton said.

Jones also showed an interest stationed at an Army base in Texas during the time of Mexican revolutionary Pancho Villa's

Jones actually flew the Army's first combat mission in 1915. His commander told him to see if he could spot Villa's forces from the air. During his mission, he came under fire, Heaton said.

When the U.S. entered WWI, Jones set up the Selfridge Air Base in Mount Clemens. The first flight out of there was in July of 1917.

He was there for about four months and eventually went to France to help polish the flying skills of American pilots before they entered combat.

Between the world wars, Jones had filed a number of patents



Selfridge today is a modern air base and Macomb officials hope to make home to the F-35 fighter jet.

and was considered an expert in that procedure by the Army.

So, when it came time to patent the Jeep, Jones was tasked with filling out the paperwork, Heaton said. Despite having nothing to do with the creation of the Jeep, Jones was listed as its inventor by the U.S. Patent Office because he handled the paperwork.

Heaton said he believes Jones was eased out of the Army because he wrote a paper advocating that the Air Force remain under Army command instead of becoming a separate service as many in the Army Air Force wanted.

Jones believed that the Air Force worked best supporting troops on the Heaton said. He retired in 1944 from "heart" problems, dying in 1959, Heaton said.

More recently Brig. Gen. John D. Slocum, commander of the 127th Wing based at Selfridge has been meeting, along with Macomb County officials, with members of the public talking about the F-35 and what it would mean for the county and the state to have the plane based at Self-

The Detroit Free Press reported that last week some of the nearly 40 Air Force brass touring the base this week were taken on an aerial tour of the facility.

Macomb County Executive Mark Hackel said that in his mind, there's no contest.

Looking at the criteria for strategic deployment and from an economic perspective, as to whether such a mission could be supported, Hackel said "there is no question. All things being equal, they're not. Macomb County, Michigan, is the site that should be selected as the No. 1 site," he said during a news conference held last week at the

The Free Press reported that Slocum intentionally wanted the base, situated along Lake St. Clair, to be the last of the five finalists studied so those touring the facility would have a good, lasting impression after their examination.

"We here at Selfridge ... have a very unique infrastructure capacity to be able to host the F-35," Slocum said.

"This entire base is infrastructure that we have. It's robust and it's resilient. And it's a fantastic base to easily and economically base the F-35.

Other sites under consideration are Dannelly Field Air Guard Station in Montgomery, Ala.; Gowen Field Air Guard Station in Boise, Idaho; Jacksonville Air Guard Station in Jacksonville, Fla., and Truax Air Guard Station in Madison, Wis.



Tuskegee airmen were briefly based at Selfridge during WWII.

Clean Diesel Technology **Makes Great Strides**

Introduction of new technology clean diesel truck engines and emissions control systems into the nation's trucking fleet over the last five years is now at a 30 percent level and has yielded significant emission reductions and substantial fuel savings, according to new research commissioned by the Diesel Technology

"Almost 3 million heavy-duty diesel commercial vehicles introduced in the U.S. from 2011 through 2016 now on the road powered by the latest generation clean diesel engines, and these trucks have delivered important benefits in the form of cleaner air, fewer carbon dioxide emissions and dramatic fuel savings. Over a 5 year period, the newest generation commercial vehicles have saved 4.2 billion gallons of diesel fuel, and reduced 43 million tonnes of carbon dioxide (CO2), 21 million tonnes of oxides of nitrogen (NOx) and 1.2 million tonnes of particulate matter." said Allen Schaeffer. Executive Director of the Diesel Technology Forum.

"Because diesel overwhelmingly dominates the heavy-duty truck sector and is also the number one power source for medium-duty vehicles, the transition to newer generations of clean diesel technology (2011 and later MY) is significant. The 30 percent national average is up from just 25.7 percent last year. The research also estimated that significant further benefits would accrue to communities across the country if more of these newer generation clean diesel trucks enter into service.'

California, which ranks 46th nationally with only about 25 percent of commercial trucks there equipped with the latest generation clean diesel technolo-

gy could see substantial benefits for accelerated adoption of newclean diesel technology trucks, Schaeffer said. If California were to achieve the same new technology penetration as Indiana (51 percent), it can eliminate another 200,000 tons of NOx and 11,000 tons of fine particles that would bring cleaner air faster to all California communities than any other strategies.

The benefits research was conducted by IHS Markit, a global technical marketing research firm, Schaeffer said.

The U.S. trucking fleet is transitioning to newer clean diesel technology which means immediate fuel savings, lower greenhouse gas emissions and cleaner air," Schaeffer said. "This newest generation of clean diesel trucks have NOx emissions that are 99 percent lower than previous generations along with 98 percent fewer emissions of particulate matter, resulting in significant clean air benefits throughout the U.S. Beginning in 2011, all heavyduty diesel trucks sold had to meet NOx emissions of no more than 0.20 grams per brake horsepower hour. This is in addition to particulate emissions levels of no more than 0.01 grams per brake horse-power hour (g/HPhr.) established in 2007."

To achieve these new levels of emissions and performance, Schaeffer said the new clean diesel system relies on an efficient engine and optimized combustion system utilizing the most advanced fuel-injection, turbocharging and engine management strategies coupled with advanced emissions controls and after-treatment technologies including particulate filters and selective catalytic reduction (SCR) systems, all running on ultra-low sulfur diesel fuel.



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New Technology Means a **New Automotive Industry**

CONTINUED FROM PAGE 1

provides a great driving experience will have a great advantage in the marketplace," Hoffecker said. "We believe we will see major changes in who is on top and who isn't on top in the auto industry in the next few years. We believe that by 2025 electric powertrains will achieve parity with Internal Combustion Engines (ICE). That will really change where competitors come

And once economies of scale can be employed in the manufacturing of this new technology, vehicles using it will become much more competitive with consumers, which will accelerate changes the industry is already seeing, Hoffecker said.

Wakefield then spoke and he said that getting the future right isn't easy. He cited, as an example, the belief a few years ago that car sharing would be a huge thing in the auto industry by now. Instead, the concept of ride sharing as defined by companies like Uber and Lyft has caught on and car sharing has become an also-ran concept.

And Wakefield said, consumers are acting a little different.

"Cost is not the main driver when it comes to ride sharing," Wakefield said. "It's convenience. And on the negative side, it's not price that people don't like, it's the price surge.

"This is not traditional economics of what's cheaper wins. It's what's better and more convenient that drive ride share."

Wakefield said that awareness that car share even exists is declining. It's not a matter of their being a couple of winners as in ride share where Uber and Lyft dominate. All car share players are losing.

And ride share technology means a lot of people don't even bother to get a license. Fewer drivers means fewer car buyers, and that means fewer car sales.

Additionally, Wakefield said, EV and hybrid technology are affected by gas prices.

"The challenge for OEMs is to try and figure out what to do," Wakefield said. "That's where international factors take over.'

All OEMs want to do well in China. It's a huge market and OEMs make a lot of money there. If China wants electric cars to reduce pollution, OEMs will have to develop electric cars, Hoffecker said. And Alix anaylsts believe the cost of things like batteries

will go down. Price has already declined by 80 percent since 2010.

One trend that Alix has noticed, Wakefield said, is how private equity money has left the automotive marketplace. That means the only players in the industry will be the ones that have to be there.

He said the business is cyclical and Alix estimates that sales figures in the U.S. peaked in 2016 with sales of 17.5 million. Alix expects sales to be about 16.9 this vear and will drop to 15.2 in 2019. By 2022, sales should be about 16.8 million.

Part of what is affecting sales is the "used-car time" bomb, Hoffecker said. Simply put, because car sales began to rise in 2010, those vehicles and lease vehicles will be hitting the market at a time when demand is not grow-

> "Those that are flexible and able to adapt to changes will do well."

- Mark Wakefield **AlixPartners**

"OEMs are focusing on how to mitigate this drop in demand,' Hoffecker said. "They've learned their lesson. After 9/11, OEMs dropped prices and increased incentives.'

That was costly. OEMs thought they could ride the situation out and kept production up, Hoffecker said. When the bottom fell out of the market, many OEMs were unable to find their balance. That's no longer the case, Hoffecker said. OEMs have worked very hard to make sure they can weather cyclical auto sales.

Overall, Hoffecker said, a lot of companies will be spending a lot of money on developing CASE

But most of that money will be wasted because there can't be 50 different CASE systems. Eventually, two or three systems will end up the winner. The problem is that no one knows which ones will win, so OEMs are spending a lot of cash on a little bit of everything.

"Those that are flexible and able to adapt to changes will do well," Wakefield said.

Ford Celebrating Past with Woodward Dream Cruise

CONTINUED FROM PAGE 1

said. In 1995, the Dream Cruise's inaugural year, the top-performing Ford Mustang SVT Cobra R was noteworthy for its 300 horsepower 5.8-liter V8.

Today, a 2017 Ford Performance Mustang Shelby GT350R features 526 horsepower and a 5.2-liter flat plane crank V8 that is both the most power-dense and the most powerful naturally aspirated road-going engine in Ford history.

In addition to the fun-to-drive Ford Mustang GT350 and GT350R, Ford Performance also offers a wide lineup of vehicles to meet almost any budget or terrain, including Fiesta ST, Focus ST, F-150 Raptor and the Ford GT supercar with a top speed of 216 mph – the highest ever for any Ford production vehicle.

The fun of driving can be even more thrilling for first-time drivers. To help newly licensed driv-

ers master their vehicles, Ford is bringing its award-winning Driving Skills For Life program to the Woodward Dream Cruise for the first time. Schembar said.

Young enthusiasts and new drivers will get the opportunity to learn safe driving techniques with the help of a new virtual reality app with Ford Driving Skills for Life. The educational experience is being hosted by Ford Motor Company Fund, the philanthropic arm of Ford Motor Com-

"We are elated to have Ford Motor Company's commitment to the Woodward Dream Cruise, and we look forward to working together on this annual tradition that puts our region in the national and international spotlight," said Tony Michaels, executive director, Woodward Dream Cruise. "Ford consistently strives to make the Detroit region stronger, and we are incredibly grateful for their partnership."

BorgWarner's Wastegate Turbocharger a Success

BorgWarner of Auburn Hills, a global provider in clean and efficient technology solutions for combustion, hybrid and electric vehicles, is supplying its proven wastegate turbocharger for Honda's new three-cylinder 1.0-liter gasoline direct-injected engine.

The vehicles using the Borg-Warner tubrocharger will be initially available for the Civic in Asia and Europe, said BorgWarn-Michelle spokeswoman Collins.

BorgWarner's compact turbocharger improves engine efficiency and boosts performance, helping achieve an outstanding power output of 127 HP with quick engine response, Collins

"Designed for powerful, downsized engines, BorgWarner's wastegate turbocharger combines high power density and excellent response in an extremely compact package," said Frédéric Lissalde, president and general manager, BorgWarner Turbo Sys-

"BorgWarner's first global development with Honda reflects our strong reputation as a leading supplier of advanced turbocharging technologies and supports our growth in Asia and around the world.'

BorgWarner's B01 turbocharger is built to be reliable and features a compact, robust design with low noise, vibration and harshness and facilitates the use of low viscosity oil, Lissalde said. Its advanced materials with-



Wastegate turbocharger

stand exhaust temperatures up to 950 degrees Celsius and rotational speeds of up to 285,000

Fitted with an electrically actuated wastegate for highly accurate control to prevent charge pressure at high engine power, BorgWarner's turbocharger is designed to deliver powerful and efficient performance, Lissalde

In addition, the turbocharger improves fuel economy while providing excellent torque characteristics over the entire engine speed range.

The low-inertia turbine wheel allows a wider performance range while optimized harnessing of exhaust gas pulsation offers fast response at low engine speeds.

In addition, the rapid activation of the catalytic converter during cold starts significantly reduces emissions, Lissalde said.

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China Car Sales See Drop

BEIJING (AP) - China's auto cles was cut by half by the govsales rebounded in June on the strength of SUV demand but rose just 2.3 percent from a year earlier following a sales tax hike and weak economic growth.

Drivers in the world's biggest auto market by number of vehisedans, SUVs and minivans, an industry group said on July 10.

Sales in May shrank a total of 2.6 percent, according to reports to the media.

Total vehicle sales, including trucks and buses, rose 3.6 percent to 2.2 million, according to the China Association of Automobile Manufacturers.

SUV sales rose 15.7 percent to 741,000, helping to offset a 4.3 percent contraction in purchases of sedans to 883,000.

Passenger vehicle sales for the first half of the year rose just 1.6 percent from a year earlier to 11.2 million, down sharply from 2016's full-year growth of 15 percent.

year's demand was propped up after a 10 percent sales tax on small-engine vehi- 13.7 percent to 1.1 million.

ernment.

Demand weakened after part of that tax was restored in January, raising it from 5 percent to 7.5 percent.

• General Motors Co. said sales of GM-brand vehicles by cles sold bought 1.8 million the company and its Chinese partners rose 4.3 percent from a year earlier to 285,191.

GM said SUV sales soared 42

- Ford Motor Co. sales rose 15 percent to 100,561 vehicles in June. First-half sales contracted 7 percent to 537,522.
- Nissan Motor Co., the biggest-selling Japanese brand in China, said its sales rose 8.9 percent from a year ago to 118,769. Year-to-date sales were up 6.7 percent at 650,525.
- Toyota Motor Co. sales rose 11 percent to 106,900 vehicles. First-half sales were up 10.5 percent from a year earlier at 624,000.
- Daimler AG's Mercedes-Benz said its sales rose 34.5 percent to 292,679. Year-to-date sales rose



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Continental Faces New Federal Scrutiny

by TOM KRISHER AP Auto Writer

DETROIT (AP) – U.S. safety regulators and automakers are trying to track down gas tank flanges that can crack and cause fuel leaks on what could be millions of cars and trucks.

The National Highway Traffic Safety Administration began investigating parts made by German supplier Continental Automotive GmbH after the company filed recall documents this week saying the parts could be defective.

The documents, posted June 7 by the agency, say Continental sold the potentially faulty flanges to 11 automakers and five other parts supply companies. Volkswagen, Porsche and Audi already have recalled nearly a halfmillion vehicles because of leaky flanges, which cover openings in the fuel tank for the fuel pump and other items. The flanges, made of an industry-standard polymer, can crack and let fuel leak. That could cause fires.

With other automakers possibly involved, Continental's recall could spread to millions of other vehicles, although the total number was unclear. Continental spokeswoman Mary Arraf conceded the number could run into the millions, but said it will be difficult to determine how many were sold because part numbers are not the same. The company has no reports of fires caused by the problem, she said.

In addition to VW, Porsche and Audi, automakers who received the flanges from Continental include Ford, General Motors, Fiat Chrysler, Lamborghini, Jaguar-Land Rover, Mercedes-Benz, McLaren and Volvo, documents say. A Volvo spokesman said its flanges are not involved in the recall and it was mistakenly included in Continental's list.

The government said in documents that it will get information from the automakers "in order to determine whether any additional vehicles may have the same defect as identified by VW and Porsche, and whether additional safety recalls are required by those identified companies."

Continental said in documents that it hasn't determined exactly what causes the flanges to crack, but it believes the outer wall can degrade due to environmental factors that it can't control, such as acids from cleaning solutions or other sources. Each automaker uses the flanges differently, and some may not be as exposed to the environment, the documents said.

Arraf said automakers would be responsible for determining if the parts are defective in their vehicles and would have to conduct their own recalls. "Our filing is signaling that basically there's a potential defect and here's who we sold it to," she said. If other automakers aren't having any issues, there may be no additional recalls, she said.

Ford said it's unclear if any of its vehicles are affected. McLaren wouldn't comment and a GM spokesman had no information. Mercedes said it's working with NHTSA. Messages were left Friday for the other automakers.

Volkswagen and its Porsche and Audi brands did four recalls for the problem starting in September of 2016 and running through March of 2017. Paperwork filed for each recall does not mention any vehicle fires, but documents say drivers reported smelling fuel. Dealers were to apply a protective ring to the flanges. If they were cracked, they would be replaced.

Studebaker Plant Reborn

SOUTH BEND, Ind. (AP) – A massive plant in northern Indiana that's been abandoned for decades is getting some improvements. There are plans to reface portions of the 94-year-old former Studebaker plant in South Bend, the *South Bend Tribune* reported.

The new facade will be made of brick and glass that will mimic the building's historic look. Work will also include structural improvements, said owner Kevin Smith. He said he hopes work on the facade will start this summer and be about halfway complete by the end of the year.

Smith said he envisions one day projecting light on the new glass surface to mimic the Aurora Borealis. The project has support from the South Bend Cubs. The Cubs' owner, Andrew Berlin,

recently broke ground on a mixed-use apartment complex near the old factory.

"It's extremely exciting to see this, because it just shows more investment on our side of town," said team President Joe Hart. "Seeing what they've done on the south side of the (complex), it's absolutely beautiful. So to imagine what it's going to look like on our side, we just can't wait."

The \$7 million project has received \$3.5 million from the state and \$3.5 million from the city.

It's part of a larger effort to create a mixed-use technology center. That entire project is expected to cost more than \$150 million and could take more than 10 years to complete.

The structure has been largely abandoned and unused since Studebaker shut it down in 1963.



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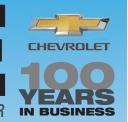
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