Tech Center News

WARREN, MICHIGAN

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Covers the Tech Center and the Immediate Area

AUGUST 29, 2016

GM Celebrates Achievements of Student Corps Volunteers at Tech Center Event

by Jim Stickford

As the end of summer approaches the GM Student Corps class of 2016 was honored on Aug. 22 by friends, family and GM executives for the hard work the students did in improving their schools and their neighborhoods.

The celebration was held in the VEC building at the GM Tech Center in Warren.

Since 2013, more than 500 high school students have earned a

paycheck while learning realworld work skills and giving back to their communities via the GM Student Corps. This year's Student Corps includes 129 students from 13 high schools in metro Detroit, Flint and Pontiac.

The program pairs teams of 10 high school interns with retired GM executives and college interns to plan and complete community service projects, primarily at neighborhood schools and parks.

This summer 60 GM retirees

and 13 college interns worked with students to develop teamwork, leadership skills and a community service mindset. The teams work as small start-ups and manage all aspects of their restoration, repair and clean-up projects, from budgeting, planning and problem solving to execution.

The 2016 GM Student Corps schools are Central Collegiate Academy, Detroit Public Schools

CONTINUED ON PAGE 3

Student Corps participants Kashawn Bonnett, Linda Dickson and Kataira Green at GM's VEC building.



GM has turned recycled water bottles into car insulation and fleece.

GM Finds Way to Turn Trash to Treasure

GM may not have found the Golden Fleece, but the company has been able to recycle plastic water bottles into fleece for auto parts.

General Motors is adding 2 million water bottles from Flint residents into its Do Your Part water bottle recycling initiative, said GM spokeswoman Becky Price.

The company partnered with Schupan Recycling to collect the bottles, Price said. The plastic is washed, flaked and turned into fleece to make three products: Chevrolet Equinox V6 engine covers, insulation for The Empowerment Plan coats for the

homeless, and air filters for 10 GM plants.

The program engages a supply web of 11 organizations and reduces landfill waste. The resulting social impact contributes to the initiative's progress and expansion, Price said.

GM supplier Filtration Services Group involved the N.E.W. Life Center in Flint to make air filter panels from the 9,000 square feet of fleece created since Do Your Part launched in April, Price said. After at-risk individuals participate in programs dedicated to employment preparation or life change, this nonprofit training

center employs them to further develop their skills.

GM is donating enough insulation for The Empowerment Plan's seamstresses – formerly homeless women - to make 6,500 coats that transform into sleeping bags that are given to those in need at no cost. The nonprofit, Price said, trains their employees in lean manufacturing and teaches them soft and hard skills to propel them to bigger and better opportunities.

"We're committed to proving employers that formerly to

Nexteer Opens its New World Headquarters

by Jim Stickford

Auburn Hills is now home to the world headquarters of the automotive supplier Nexteer.

The company got its start in Saginaw and was a part of Delphi in 2009 when Delphi's global steering operations were sold to GM and renamed Nexteer Automotive. In 2010 GM sold Nexteer Automotive to China-based Pacific Century Motors.

Nexteer spokeswoman Dawn McDonald said that the decision to move the world headquarters to Auburn Hills from Saginaw was made to move the company closer to the action. Now Nexteer is located in the heart of global automotive industry and closer to the company's customers.

And by moving to a new building, Nexteer also had the opportunity to create a state-of-the -art a new headquarters, said James

about the company and even engage in social media.

We will have an extended social media presence," McDonald said. "It will be spread across several different media platforms. It encourages employees and our customers to get involved in the brand in a more active way."

McDonald said that Nexteer hasn't abandoned Saginaw. Manufacturing will still take place there and the offices will become a global tech center and the company's North American division offices.

The headquarters will hold the finance, purchasing, legal and human resources departments, among others, McDonald said. Additionally global strategy will be formulated in Auburn Hills.

Another advantage to building Collins – IT Infrastructure project a time when Nexteer has introcompany install the latest com- gy in automotive markets. munications equipment.

conference room enjoys tech that makes it possible for people in other cities and countries to have video conferences with the headquarters or other Nexteer facilities. The equipment is so sophisticated that it's possible for someone to write on a whiteboard in a different site and have what's written projected on a whiteboard in the headquarters conference room.

"We looked for tech that could create a virtual experience so people in China and Poland can work together despite distance and time differences," said Dave Mitchell, Nexteer chief information officer.

McDonald said that the new headquarters also acts as a great recruiting tool. Today's employees want to work in a modern building.

And the new building comes at



This C-frame structure is made by STANLEY Engineered Fastening.

STANLEY Division Adding To Lightweighting System

STANLEY Engineered Fasten- as aluminum, which is forecast

headquarters that "combines the best of Motown and Silicon Valley" to create a vibe that results in the kind of friendly workplace that people want to spend time in. McDonald said.

This emphasis on the modern begins when people walk in the front door, McDonald said. The new headquarters is 52,000 square feet spread around two floors. The lobby features digital screens that display different messages and illuminate the room. Currently 150 people work there, but the building has been designed to hold up to 200.

The new headquarters also includes a cafeteria with digital screens on the walls. These screens display a mix of company information and news as well as local traffic and weather conditions. They are interactive so it's possible for people to touch them and access information Now, Collins said, the main

manager, is that it allows the duced new automotive technolo-

CONTINUED ON PAGE 6



Nexteer CEO Guibin Zhao speaks at headquarters opening.

ing (SEF), a Chesterfield-based division of Black & Decker that specializes in engineered fastening technologies, is adding to its industry-leading suite of holistic lightweighting systems, said Stanley spokesman Dick Pacini.

In addition to its broad portfolio of fastening solutions, such as stud-welding systems (SWS) and plastic fasteners, SEF is now translating its next-generation self-pierce rivets (SPRs) to the North American market for the first time, Pacini said.

SEF provides system solutions to lightweighting challenges, including the assembly of aluminum body panels, which can't be joined by traditional welding techniques.

Demand, Pacini said, for SPRs, which already are well-established in Europe, is on the rise in North America as automakers increasingly adopt materials such

to grow in the North American automotive industry. According to the Ducker Worldwide "2015 North American Light Vehicle Aluminum Content Study," within the next decade aluminum sheet for light vehicle body and closure parts will grow from less than 200 million pounds in 2012 to nearly 4 billion pounds.

Within the same timeframe, every leading automaker is expected to have an aluminum body program in place, according to the study.

SEF is working with several major North American automakers interested in SPRs to help integrate lightweight alternative materials, such as aluminum and carbon fiber, into their vehicle platforms.

"Whether joining aluminum, steel, plastics, composites, or

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Recycled Plastic Bottles Become Fleece for GM

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homeless people can be a skilled talent pool," said Veronika Scott, founder and CEO of The Empowerment Plan. "The end product is more than a coat: It empowers women to take control of their lives and provides the path to long-term, sustainable jobs."

Scott says GM's insulation provides the warmth needed for the homeless to withstand cold nights. Each coat contains 31 water bottles. The GM Foundation also supports The Empowerment Plan, providing it with \$220,000 since 2013.

An estimated 1.2 million bottles from five GM facilities throughout metro Detroit and Flint supplemented the significant volumes coming from the Flint community, Price said.

The company recently added its Romulus Powertrain plant to the program. While many employees bring reusable water bottles to work, all of GM's facilities provide water bottle recycling. Employees at these Michigan sites know exactly what the bottles will become when they throw the bottles in the recycling bins.

"People want to do the right thing," said John Bradburn, GM global waste reduction manager. "The Do Your Part recycling initiative is a way our employees and communities can connect their individual actions to broader social and environmental causes."

The Motor City Chorale Needs New Singers

The Motor City Chorale – a premiere mixed-voice adult community chorus in Metro Detroit – is accepting new singers for their 2016-2017 season, beginning Sept. 12, said Sue Frost, Chorale president. The group has a long history of singing throughout

Chevy Systems Aimed at Curbing Distracted Driving Issues

In the month of August this year more than 360,000 teens will become eligible for a restricted driver's license in most states – and with that, a lot of parents will experience new levels of stress.

According to a Harris Poll survey commissioned by Chevrolet, said GM spokeswoman Darri'n Hardy, more parents with teens worry about their child driving (55 percent) more than any other area of parental stress, including drugs and alcohol (52 percent), sexual activity (49 percent) and academic performance (53 percent).

Chevrolet recognizes this top concern for parents and, as a result, in addition to its suite of available active and passive safety features, offers Teen Driver Technology on 10 of its 2017 cars, trucks and SUVs, Hardy said. Chevrolet's Teen Driver includes an industry-first in-vehicle report card that shows how the teen drove and provides a way for parents to talk best practices.

"I, like many of our employees, am a parent of teenagers, so we personally understand the anxiety of having a teen driver in the house," said Steve Majoros, director of marketing, Chevrolet Cars and Crossovers. "And while we can't control a teen's behavior when they are in a car without a parent, Chevrolet's Teen Driver Technology can remind them to buckle up and avoid speeding, while our other available active safety features can help to alert them in certain situations when they're making lessthan-perfect driving decisions."

Teen Driver, Majoros said, sup-



Chevy has solutions for the problem of teen distracted driving.

ports certain safe driving practices by muting the radio or the audio of any paired device when front seat occupants aren't wearing their safety belts. It also gives audible and visual warnings when the vehicle is traveling faster than preset speeds, and allows parents to limit the maximum volume of the radio.

Additionally, available active safety features are automatically enabled and incapable of being manually disabled when Teen Driver is in use. These features may include Lane Departure Warning, Lane Keep Assist, Front and Rear Park Assist, Side Blind Zone Alert, Rear Cross Traffic Alert, Forward Collision Alert, Forward Automatic Braking, Rear Automatic Braking, Front Pedestrian Braking, Stability Control, Traction Control, Daytime Running Lamps/Automatic Light Control.

"As a mother of two, it's extremely important to find solutions that can help young drivers on the road," said MaryAnn Beebe, Chevrolet safety engineer. "Chevrolet developed this system as a tool that can give teens some additional coaching as they're gaining experience. Driving on your own is a big milestone for teens, and Teen Driver helps to remind them to practice safe driving. And for parents, it's easier to give guidance to your teen when you have some information on what they're doing behind the wheel.'

The Teen Driver in-vehicle report card may keep track of the following, depending on the vehicle. They are distance driven, maximum speed reached, overspeed warnings issued, stability control events, antilock braking events, Traction control activations, wide-open throttle events, forward Collision Alerts, if equipped, forward Collision Braking events, if equipped, T Tailgating Alerts, if equipped.

Teen Driver is a non-subscription-based service that remains with the vehicle permanently and is available on the 2017 Chevrolet Bolt EV, Camaro, Colorado, Cruze, Malibu, Silverado, Silverado HD, Suburban, Tahoe and Volt, Hardy said. To use the safety technology, a parent must register their teen's key fob in the vehicle's system settings.

New for most 2017 models with Teen Driver:

• Maximum speed limiter;

• Configurable audio volume limit.

Additional report card information:

- Traction control activations;
- Wide-open throttle events;

• Tailgating alerts, if equipped. Each of the 10 vehicles also features available Apple CarPlay or Android Auto compatibility, to help encourage teens to refrain from using their handheld phones while driving.

The Centers for Disease Control and Prevention confirmed that August was the most popular birth month in the U.S. in the year 2000, with 360,080 births. Knowing there could be a record number of 16-year-olds hitting the road in August 2016, Chevrolet commissioned a survey of parents with teenagers from ages 13 to 17 years to find out how seriously parents take the issue of their teens driving. This survey was conducted online within the U.S. by Harris Poll on behalf of Chevrolet from June 16-23, 2016.



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Rehearsals are held on Monday evenings from 6:45 p.m. – 9 p.m. at Lincoln High School, 22900 Federal (off 9 Mile Road between Van Dyke and Hoover), in Warren.

"The chorus performs in many venues in the tricounty area. Please view our website at motorcitychorale.org," Frost said. "Perhaps you sang in a previous choir or high school group. Renew your love for singing again."





Tech Center News

AUGUST 29, 2016

COVERS THE TECH CENTER AND THE IMMEDIATE AREA

PAGE 3

Reuss Congratulates GM's Student Corps Volunteers

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Cody Campus, East Detroit High School, Flint Southwestern Academy, Hamtramck High School, Harper Woods High School, Henry Ford High School, Madison High School, Melvindale High School, Detroit Public Schools Osborn Campus, Pontiac High School, River Rouge High School and Van Dyke Lincoln High School.

"This is the fourth year we've done this," said Heidi Magyar, director of Community Outreach -GM. "We are so proud of what these students have done. They work hard and pick their projects and have a voice in their communities.'

The program was first sponsored by Executive Vice President, Global Product Development, Purchasing and Supply Chain General Motors Mark Reuss. It was launched in 2013 and has grown, Magyar said.

'This year we didn't expand the number of schools that were involved," Magyar said. "Rather we grew the program in depth, adding programs for students that taught things like financial literacy. Our retirees were very helpful in teaching the students about things like that."

One of the retirees who donated his time this summer was Larry Johnson, who retired from GM seven years ago. His last position was as regional manager of Dealer Development.

"This is my third year being involved in the Student Corps," Johnson said. "This summer I worked with students from Detroit's Central High School, and I want to say that the students were outstanding. I worked with nine fantastic potential leaders. I am pleased that they were able to come together and work as a team. Sometimes high school students don't always get along. But they pulled together and developed into a tight little unit."

Johnson also praised his UDM student intern Blake Packer. He was a Student Corps graduate and came back as an intern to help mentor the class of 2016.

Student Corps participant Linda Dickson is starting her senior year at Detroit Osborn High School's Math Science Tech (MST) program.

"This was my first year being involved with the Student Corps," Dickson said. "It was very energizing to see what we could do and I got to meet new people. Osborn is made up of three different schools, so it's hard to know everybody. We weren't always friends when we started. I was surpised that we were able to work together and get the jobs done.'

Kashawn Bonnett is also starting his senior year at Osborn and he is also in the MST program.

"This is the first time I've done this," Bonnett said. "My biggest surprise was seeing the overall effect of what we did had on the larger community. The work we did in and around the school changed the way people acted around the school. I saw students, on their own, picking up trash. It energized the students and the teachers and they all had a good feeling about the school and the community.'

Kataira Green is also starting her senior year at Osborn. She is in the college prepatory track.

"This is my first year," Green said. "I decided to be a volunteer

when I heard GM was involved. I said to myself 'I have to be a part of this 'I didn't like what we did -I loved it. I like volunteering anyway and being able to give back to the community and add a spark to the school was an honor."

For Matt Ybarra, working for the Student Corps in 2016 was like coming home. He first became involved in the program as a UDM student intern.

"I was born in California, but

my parents moved us to Ann Arbor where I grew up," Ybarra said.

"I first started as a student intern between my sophemore and junior year in college at University of Detroit-Mercy.'

Reuss spoke to the retirees and students about their work at the celebration.

"It's great to see so many faces of retirees," Reuss said. "It's a big deal and I want to say thank you very much."



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GM Wins Texas Lawsuit

HOUSTON (AP) – A Texas jury on Thursday found that a General Motors Co. ignition switch was not to blame for a 2011 accident that killed one driver and injured another, handing the carmaker its third courtroom win this year in a series of trials designed to help attorneys settle dozens of similar claims.

The jury deliberated less than two hours in reaching its verdict on Aug. 26 in a trial that began Aug. 9. Zachary Stevens and his parents had sued GM, claiming a faulty ignition switch in Stevens' Saturn Sky jostled off, causing him to lose control of his car and hit another vehicle, killing its driver. Stevens' attorneys say he suffered a traumatic brain injury and a skull fracture in the accident.

The switches can slip out of the on position, causing the cars to stall, knocking out power steering and turning off air bags. GM says it has fixed the problem.

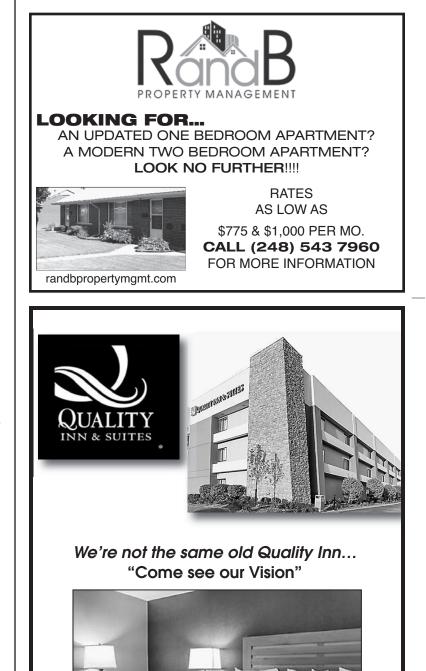
Josh Davis, Stevens' attorney, said that while his client never hid the fact that he was speeding before the accident, Stevens and his family still maintain the ignition switch was the main cause.

"It's obviously very disappointing," Davis said after the verdict. He had asked jurors to award the Stevens family more than \$14.5 million.

Attorneys for GM told jurors in Houston the accident was caused by Stevens' reckless speeding on a rain-slick road.

"As a result, an innocent man was killed. The accident had nothing to do with either General Motors or the ignition switch," GM spokesman Jim Cain said in a statement after the verdict.

Stevens, who was 19 at the time, had been driving westbound on a road northeast of Houston near the town of New Caney when his car began to act erratically and he was unable to control it, according to his attorneys. Stevens' car hit a guardrail and went into the eastbound lane, where it struck a vehicle driven by Mariano Landaverde, who died at the scene. Landaverde's family had also been part of the lawsuit but settled out of court with GM.





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Nexteer Opens New World HQ In Auburn Hills

The company's Automotive's Column Assist EPS, for example, integrates the system electronics (motor, controller, and sensor) and the assist mechanism with the steering column, Mc-Donald said. The Nexteer Automotive product portfolio also includes Brushless Column Assist EPS: 40 – 60Nm Assist, Brushless Column Assist EPS: 61 – 75Nm Assist, Brushless Column Assist EPS: 76 – 95Nm Assist.

And said Brian Darling, Product Line executive for Hydraulic Line Steering, Nexteer Automotive has modernized its Hydraulic Power Steering (HPS) systems for compatibility with driver assist technologies and maximum fuel efficiency through the introduction of its MAGNAS-TEER with Torque Overlay (MTO) and Smart Flow systems. Smart Flow increases HPS operating efficiency and fuel efficiency by reducing parasitic loss on the engine. It can be com-

bined with the MTO system for an optimized HPS experience. Frank Lubischer, chief technology officer, said that Nexteer's historical expertise in steering is paying off for the company because of the emphasis on automated and autonomous driving.

"That's the technology that people are interested in and the core of automated driving is the steering," Lubischer said.

Opening up its headquarters in Auburn Hills also gives Nexteer the chance to make a statement about what kind of company it is.

"Since the acquisition five years ago, we have established Nexteer as neither a Chinese company, nor an American com-We see ourselves as a pany. model global company with deep roots in the global automotive industry," said Guibin Zhao, chairman, executive board director and CEO, Nexteer Automotive, during the event. "Because we are a global company, we have made a deliberate choice to setup our new smart home among our customers, peers and thought-leaders in the heart of the global automotive industry right here in the State of Michigan in Oakland County and in the City of Auburn Hills.

STANLEY Offers New Options To Fasten Parts

combinations of materials, SPR is ideal for joining sheet materials providing a watertight joint,"

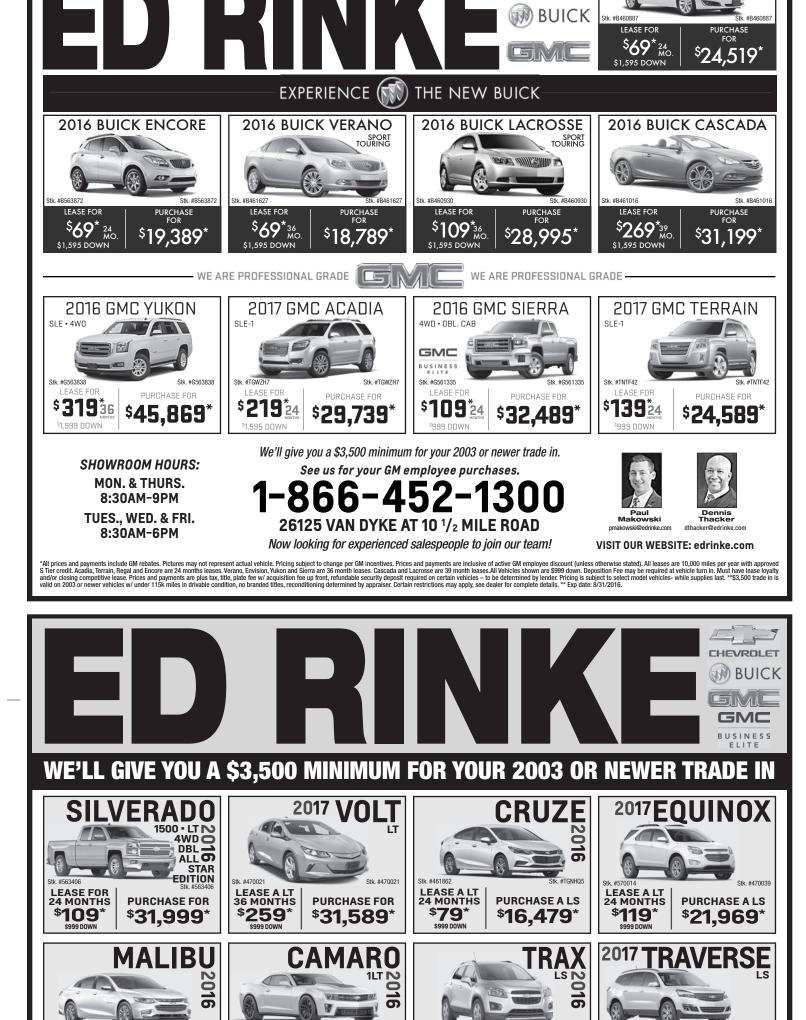
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said Dr. Siva Ramasamy, vice president, Breakthrough Innovation. "SPRs are installed with a servo-driven tool enabling control of the rivet-setting process for uncompromised repeatability. The system provides processmonitoring capabilities, enabling increased productivity and quality."

In addition to offering the lightweighting fastening and assembly systems, Pacini said SEF also provides the manufacturing equipment for the factory floor, making it a "one-stop" shop for lightweighting solutions.

STANLEY Engineered Fastening is a division of STANLEY Black & Decker that has more than 5,000 employees in 28 manufacturing and technical locations, and 30 customer service facilities around the world, SEF is a \$1.4 billion global tier one automotive supplier offering complete fastening solutions for equipment and fastening types, Pacini said.

Delphi, Mobileye Join Forces

DETROIT (AP) - Auto parts and electronics company Delphi Automotive is joining with Israeli software maker Mobileye to develop the building blocks for a fully autonomous car in about two years.

The companies announced their partnership on Aug. 23. It's another in a flurry of auto industry and tech tie-ups as companies race for self-driving supremacy.

Delphi and Mobileye plan to build a complete autonomous driving platform that they will sell to automakers around the world.

They promise to demonstrate the technology at January's Consumer Electronics Show and have it ready for production in 2019

Delphi already has taken an autonomous Audi on a cross-countrv drive, while Mobileye makes software that processes data from cameras and other sensors.

The companies didn't give many financial details but said they would share development costs for a total combined invest-

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ment of a few hundred million dollars.

Mobileye will provide its next generation chip that processes signals from multiple sensors, as well as software used for realtime mapping.

Delphi will contribute automated driving software algorithms and controls for camera, radar and laser sensors.

The partnership is the latest as old-line auto companies combine their strengths with technology companies as they try to stay competitive on autonomous cars.

Earlier this month ride-hailing company Uber announced a partnership with Volvo and acquired a San Francisco startup called Otto to work on autonomous vehicles. Uber said it plans to test autonomous cars by carrying passengers in a few weeks in Pittsburgh, with human backup drivers. In January General Motors invested \$500 million in Lyft, Uber's prime competitor, and it bought Cruise Automation, a West Coast autonomous software company.

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MSRP	\$25,400
MINUS: GMS PRICE ADJUSTMENT .	\$1,700
MINUS; LAETHEM PEP PRICE ADJUSTI	MENT\$3,055
MINUS; REBATES	\$3,960
RAY LAETHEM'S	*⁄24 м0



2016 Buick Regal Premium II

MSRP	
MINUS: GMS PRICE AI	DJUSTMENT
MINUS; LAETHEM PEP	PRICE ADJUSTMENT\$3,360
Minus; Rebates	
RAY LAETHEM'S GM Employee Leas	^{"\$} 79 ^{*/} 24 мо

2016 Buick Encore

MSRP	\$25,385
MINUS: GMS PRICE ADJUSTMENT	\$1,718
MINUS; LAETHEM PEP PRICE ADJU	JSTMENT\$1,802
MINUS; REBATES	
RAY LAFTHEM'S	О */24 мп

BIG SELECTION OF CTP CARS TO CHOOSE FROM, INCLUDING:

- Yukon-SLT and Denalis
- Terrains SLT's SLE's and Denalis
- Sierras SLE and SLT
- Encores Base, Sport Touring, Leather
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PLEASE READ THIS CAREFULLY:

* PEP/CTP pricing is plus tax, title, plate, CVR, and doc fee. Leases include 10,000 miles per year. Payments are plus 6% use tax. Amount due at lease signing includes: \$1,595 down payment, 1'st payment, tax, title, license, CVR and doc fee. ALL PAYMENTS INCLUDE DESTINATION AND ACQUISITION. Requires GM employee discount & must be actual employee with ID (not relative) with GM Voucher of \$1000. Pricing for Michigan residents only. Picture may not represent actual vehicle. Payments include competitive lease conquest incentive. Payments based on Tier 1 credit approval. Subject to prior sale or changes in manufacturer programs. CTP. Prices good through 08/31/2016.





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