# Tech Center News®

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**Covers the Tech Center and the Immediate Area** 

**MAY 28, 2018** 

#### New Silverado 1500 Expands Option Choices

With popularity of pickup ado 1500 propulsion lineup intrucks only growing, GM is meeting that demand by providing customers with a variety of options to meet every need, said Tim Asoklis, chief engineer for the Silverado 1500.

With eight trims paired with six engine/transmission combinations, even more customers will find a 2019 Silverado 1500 tailored to their needs for performance, efficiency, technology and value, said Asoklis.

"A major focus of the next-generation Silverado is expanding the range of choices," he said. "With all-new engines and a broader model range, there's a Silverado for everyone, whether you're buying your first pickup or your tenth.

The new 2019 Chevrolet Silver-

cludes:

- Over half of the models will be equipped with the most advanced V8s in the brand's history: updated versions of Chevrolet's proven 5.3L and 6.2L engines equipped with industry-first Dynamic Fuel Management featuring 17 different modes of cylinder deactivation.
- A new, advanced 2.7L Turbo engine that replaces the 4.3L V6 as the standard engine on the high-volume Silverado LT and new Silverado RST, expected to offer 22 percent more torque, greater fuel effi ciency and a stronger power to-weight ratio than the current model.
- Proven 4.3L V6 and 5.3L V8

engines deliver full-size truck capability and performance for the most affordable trucks in the Silverado lineup.

• A new, Duramax 3.0L inline-six turbo diesel will be available in early 2019.

Each engine/transmission combination is matched with exterior design and interior features to create distinct personalities for each Silverado trim, based on three broad customer profiles - High Value, High Volume and High Feature, said GM spokesman Monte Doran.

**CONTINUED ON PAGE 3** 



2019 Silverado RST

# Gallagher Named to Lead ACC-Warren

The U.S. Army Contracting for their continued support for Command's newest member of the Senior Executive Service officially joined its ranks as of May 14 at the Detroit Arsenal.

Daniel J. Gallagher, ACC-Warren's new executive director, was sworn in during a ceremony that was officiated by Maj. Gen. James Simpson, the commanding general of ACC, earlier this month.

"We have picked the right individual to come and lead the TACOM contracting center," Simpson said when he introduced Gallagher. "From one friend to another, thank you for what you have done for the Army and thank you and your family

the Army. This is not over yet, there is a lot more to give."

Simpson then administered the oath of office to Gallagher for the SES ceremony, presented the SES pin to him and the SES flag was unfurled.

The Senior Executive Service the men and women charged with leading the continuing transformation of government possess well-honed executive skills and share a broad perspective of government and a public service commitment which is grounded in the Constitution,





Daniel J. Gallagher

#### UAW Bikes to be Blessed June 3 Motorcycle enthusists should come. It's one of Macomb Coun-

check out the UAW Region 1 Blessing of the Bikes.

The event will be held on Sunday, June 3, with the blessing taking place at noon, said UAW Region 1 Director Chuck Hall.

The event will be held at the UAW Region 1 Pavilion located at 27800 George Merrelli Drive in Warren, Hall said.

This is the fifth annual blessing," Hall said. "There will also be rodeo games. Everyone is wel-tends will have a great time."

ty's largest such event.'

While the blessing is at noon, the fun starts at 10 a.m. and goes to noon, Hall said.

There will be live music, cards, extra games, hot dogs and hamburgers and more – all after the blessing.

"This is something everyone can enjoy," Hall said. "It's great fun for families and motorcycle lovers. We think anyone who at-

# Ford Introduces New, Improved F-150 Raptor Using New Technology

market alterations to the F-150 41 years, and Ford takes that Raptor pickup truck, Ford has decided to get rid of the middle man for the 2019 model.

Ford is making its iconic F-150 Raptor - the ultimate highperformance off-road pickup, said Ford F-150 program manager - even better with upgraded technology including class-exclusive, electronically controlled FOX Racing Shox, new Trail Control and new Recaro sport seats. "The upgrades," he said, "are focused on key components that have made the F-150 Raptor benchmark in off-road

honor seriously.

"The question was, how do you take a great truck and make it better?" Greco said. "We always start with the suspension. The shocks are now electronically controlled to give the driver a more refined ride and to improve the truck's off-road capability."

And the new 2019 Raptor will have trail control, Greco said. This is basically a slow-speed feature that lets the driver focus on steering. He said this system can be best described as a low-speed cruise control system.

And working on improving the Greco said the F-150 has been suspension also drove designers

Given the popularity of after- the best-selling truck for the past to improve the Raptor's interior, Greco said.

> "If the truck gets better, it only makes sense to make the interior better," Greco said.

> Chris Paiva, head of Raptor Vehicle Dynamics, said that one of the driving forces behind improving the Raptor was the desire to up their game.

> So Ford engineers and designers developed an active shock control system for the Raptor. This uses electronics to better adjust the suspension to the road and general environment.

> Paiva called it a great improvement over "passive" shock control

> > **CONTINUED ON PAGE 8**



Paiva talks about the hi-tech suspension of the 2019 F-150 Raptor.

Contestants from around the world attended the Global Robofest recently held at Lawrence Tech.

### **Lawrence Tech Is Home To Global Robot Contest**

Teams from Illinois, Michigan, engineering excellence," said C.J. Canada, Colombia, Hong Kong, Korea, and South Africa took home the top awards in Saturday's World Robofest Championship, held on the campus of Lawrence Technological University May 17-19.

Nearly 100 teams from around the world competed in a variety of robotic challenges, said LTU spokesman Matt Roush.

Lawrence Tech President Virinder Moudgil provided opening remarks, noting that participants are tomorrow's global leaders in engineering and science. Glen Bauer, Acting Dean of LTU's College of Arts and Sciences, provided closing remarks.

"It was another great year for Robofest, an event that brings together students from all over the globe in the pursuit of robotic

Chung, professor of computer science at LTU. Chung founded Robofest in 1999.

Taking home the Toyota first place award in the Senior Game division was a team called Blood. Sweat and Gears from Birmingham's Roeper School. Second place went to Royal Robots from the Annapolis West Education Centre in Annapolis Royal, Nova Scotia, Canada, while third place went to R&G 9 from the R&G Robot Center in Seoul, South Korea.

In the Junior Game division, the Denso first place award went to Insele Solutions, sponsored by Trophy Computers & Robotics in Vanderbijlpark, South Africa. Second place went to the Jammin' Awesome Blockies of Aurora, Ill., and

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#### Warren Police Seek Info on Tree Vandal

Warren police are seeking help in finding a criminal who recently vandalized several trees in the

According to a report issued by the Warren police department, a vandal destroyed at least eight recently planted trees between 10 and 11 p.m. May 15 on Cousino street near Green Acres Elementary.

Police say that witnesses reported a man described as 18-24 vears old, 6 feet tall and about 230 pounds wearing dark blue jeans and a blue hooded sweatshirt with a light blue shirt underneath was seen damaging

Police are asking that anyone who has information about this vandalism on Cousino street please call police (586-574-4700) or the mayor's office (586-574-4520) so that they can get this person off the streets as soon as

The Waren Department of Public Works immediately replaced the destroyed trees.

# Indy 500 Engineers Earn 2018 Louis Schwitzer Award

52nd annual Louis Schwitzer Award has been presented to engineers Tino Belli from INDYCAR, Andrea Toso and Antonio Montanari from Dallara. and Chris Beatty from Chris Beatty Design Limited for teaming up to develop the IndyCar Universal Aero Kit, which is a complete aero and body package utilized on the vehicles racing in the 2018 Indianapolis 500.

The award and a \$10,000 prize was presented on May 18 by BorgWarner and the Indiana Section of the Society of Automotive Engineers (SAE) International at Indianapolis Motor Speedway.

"With this award we celebrate the people behind the scenes that make the Indianapolis 500 the 'Greatest Spectacle in Racing' - the engineers that spend countless hours dreaming up, developing and implementing the technologies that continually improve the action on the track, whether through improved performance, safety, or efficiency," said James R. Verrier, president and CEO, BorgWarner.

"We are proud to acknowledge excellence in race-car engineering by immortalizing on the Louis Schwitzer Award trophy Chris Beatty, Tino Belli, Antonio Montanari and Andrea Toso, who developed the IndyCar Universal Aero Kit. Congratulations to this year's winners."

The IndyCar Universal Aero Kit (UAK18) is the perfect example of a successful collaborative engineering effort, Verrier said. The project shows the challenges that modern engineers face to please many diverse and conflicting requirements.

The UAK18 meets performance targets for all types of tracks from street courses like Long Beach to high-speed oval tracks like Indianapolis. Incorporating classic styling cues, it matches

or surpasses all previous aerodynamic stability metrics, improves side impact safety, and makes for great racing.

Presented by engineers to engineers, the Louis Schwitzer Award recognizes individuals for innovation and engineering excellence in racing technology associated with the annual Indy 500, said BorgWarner spokeswoman Martha Avery. It honors the engineers with the courage and motivation to identify new concepts in racing technology.

The Schwitzer Award focuses on new innovations with applications in the engine, powertrain, profile or chassis, for the cars conforming to Indy Racing League Series specifications, Avery said.

Judges look for advancements that increase performance, safety or energy efficiency and emphasize the competitive potential in racing with additional applications that can be used in different off-track vehicles, Avery

Recent past innovations to win the Louis Schwitzer Award include the PFC carbon disc brake system from PFC Brakes in 2017 as well as the Rear Beam Wing Flap from Dallara back in the year 2016.

The award memorializes Louis Schwitzer, the winner of the first auto race at the Indianapolis Motor Speedway (IMS) in 1909 and designer of the "Marmon Yellow Jacket" engine that powered the Marmon Wasp to victory at the first Indianapolis 500 in 1911, Avery said.

A century ago in 1918, after working in the automotive industry for many years, Schwitzer founded Schwitzer Corporation, which produced innovative cooling fans, water pumps and turbochargers.

Throughout his lengthy career, Schwitzer achieved numerous technological accomplishments, Avery said.

He also supported higher education, as well as leading the IMS technical committee and he also maintained a strong association with SAE through the vears.

Schwitzer Corporation joined up with BorgWarner beginning in

### Lawrence Tech Home to a Robot Challenge

CONTINUED FROM PAGE 1

third place went to TX-001-1, a team from Goyang, South Korea.

This year's Robofest game was called AtBC, for Autonomous Tennis Ball Challenge. Robots were programmed to collect tennis balls off a table and deposit them in a box, while knocking water bottles off the table, Roush

Winners were determined by how successful they were at this task in a two-minute period, with points awarded per ball and bot-

Robofest also features an Exhibition category, in which students can dream up any task and design a robot to perform it.

In the Senior Exhibition category, the Mobis first place award went to Vriot, a team from the Logos Academy in Hong Kong, while second place was earned by GC-Earth, a team from Colegio Gimnasio Campestre said.

In the Junior Exhibition category, the Mobis first place award went to TechSisters of the Canton Charter Academy in Canton Township.

Second place was earned by Medi-Bot GC, another team from the Colegio Gimnasio Campestre, and third place went to the Tai Po Old Market Public School in Hong Kong.

Robofest is a competition to build and program autonomous robots that aren't remote controlled, Roush said.

There are multiple events created around Robofest, including a conference called WISER (World

in Bogota, Colombia, Roush conference on Integrated STEaM Education through Robotics).

Other events surrounding Robofest include a robot drawing contest for grades K-3, a robotic art exhibition, a computer-visionbased robotic challenge, a robotic "sumo wrestling" competition, and more. Competition divisions include grades 5-8 and grades 9-12, Roush said.

Unlike other competitions, students have a full freedom of using any robotic kits, parts, and sensors.

Since its founding, more than 23,000 students from around the world have participated in Robofest events all over the

### **Macomb Dental Program**

My Community Dental Centers, Inc. (MCDC), in partnership with the Macomb County Health Department (MCHD), invite community partners and residents to attend its open house on Thursday, May 31, from 4:30 p.m. to 6 p.m. to celebrate the dental center's one-year anniversary.

The event will be held at the dental center, located at 27690 Van Dyke Ave. in Warren, and is open to the public. It will include a meet-and-greet with the team along with refreshments, facility tours and a drawing to win an electric toothbrush, said county spokeswoman Amanda Kelley.

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The dental center opened in May 2017 and served more than 1,300 patients in its first year, with 3,332 office visits. The center provides comprehensive dental services, including oral exams/cleanings, fillings, tooth removal, partials, dentures and

other procedures. MCDC-Warren accepts patients on Medicaid, Healthy Michigan Plan and Delta Healthy Kids, as well as patients with private insurance. The organization also offers My Dental Program (My-DP) for those without dental insurance, which provides reduced fees based on household income.

A lack of access to dental care negatively affects the community's health and well-being, Kelley

When an oral health emergency strikes, those enrolled in Medicaid and the uninsured often head to the emergency room, not the dentist.

Established in 2006, MCDC is the largest nonprofit 501(c)3 Dental Support Organization in the United States. It currently operates 39 dental centers statewide.



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#### Gallagher Named **Executive Director** At ACC-Warren

**CONTINUED FROM PAGE 1** 

said TACOM spokesman Don Jarosz.

"I am truly excited to be here back in Michigan one more time in my career to be with my family," Gallagher said after he took the SES oath. "But more important is the mission that supports our soldiers."

In his new position, Gallagher directs acquisition support and contracting for Army major weapon systems, for systems and equipment supporting other services, and foreign military sales customers, Jarosz said.

He previously served as ACC's deputy director of contracting operations at Redstone Arsenal, Ala., where Gallagher provided oversight and guidance on contracting support requirements to ACC subordinate units and the ACC workforce.

A retired Army colonel, Gallagher started his military career after graduating from California University of Pennsylvania as an ROTC distinguished military graduate, Jarosz said. He served in a wide variety of operational command, leadership and staff assignments during this time.

"I have a short motto," Gallagher said at the end of his remarks. "Mission first, people always, and never forget your family. Keep that in mind and everything will go well.'

#### 2019 Silverado Aims to Improve Performance and Ride

CONTINUED FROM PAGE 1

For customers seeking full-size truck capability and the highest level of affordability, the Work Truck (WT), Custom and Custom Trail Boss trims offer two proven engine and transmission combinations:

- Standard 4.3L V6 with Active Fuel Management and a sixspeed automatic transmission (SAE-certified at 285 hp/305 lb.-ft.).
- Available 5.3L V8 with Active Fuel Management and a sixspeed automatic transmission (SAE-certified at 355 hp/383 lb.-ft.).

For customers shopping in the heart of the truck market, the LT, RST and LT Trail Boss trims balance technology, efficiency and performance.

- · Standard for LT and RST: Allnew 2.7L Turbo with Active Management stop/start technology paired with an eight-speed automatic transmission (SAEcertified at 310 hp/348 lb.-ft.).
- Standard on LT Trail Boss and available on LT and RST: An updated 5.3L V8 with Dy namic Fuel Management and stop/start technology with an eight-speed automatic transmission (SAE-certified at 355 hp/383 lb.-ft.).
- Available on LT and RST: The new Duramax 3.0L Turbo-Diesel with stop/start technology paired with a 10speed automatic transmis

sion will be available in early

For customers shopping for a premium truck, said Doran, the LTZ and High Country trims offer the highest levels of performance and technology, including:

- Standard: Updated 5.3L V8 with Dynamic Fuel Management and stop/start technology paired with an eightautomatic transspeed mission (SAE-certified at 355 hp/383 lb.-ft.).
- Available: Updated 6.2L V8 with Dynamic Fuel Management and stop/start technology paired with a 10automatic transspeed mission (SAE-certified at 420 hp/460 lb.-ft.).
- Available: The new Duramax 3.0L inline-six Turbo-Diesel with stop/start technology paired with a 10-speed automatic transmission will be available in early 2019.

The performance of each engine/transmission combination benefits from a truck that is lighter and more aerodynamic than the previous model.

"With less weight and less wind resistance, we improved the driving dynamics without sacrificing fuel efficiency," said Asoklis.

"The next-gen Silverado is a bigger truck, but the chassis feels more responsive and acceleration is more pronounced. I would argue it's the best-driving truck we have ever built."

The 2019 Silverado is larger



The interior of the 2019 Silverado boasts comfort and the latest tech.

longer, yet overall length is only terior room for all cab lengths.

than before, including a wheel- 1.6 inches longer, enabling both base that is up to 3.9 inches more cargo volume and more in-

#### Library to Feature Beatles

The Warren Public Library is brary's Books, Brew & Banter hosting a number of events in June that should be of interest to residents, said Warren librarian Amy Nelson.

On Tuesday, June 5, two experts on the classic British rock band, The Beatles, will talk about their While Album, and why it should be considered a classic. The event will be held in Confernce Room A of the Arthur Miller branch of the library, 5460 Arden Road. To reserve a spot, call 586-

On Tuesday, June 19, the li-

book club will meet at 7:30 p.m. in Malone's Tavern, 32350 Van Dyke, to discuss "The Passenger" by Lisa Lutz. Nelson said copies of the book may be obtained at the Miller Branch's circulation

"Star Wars" fans will want to be in the Miller branch's Conference Room A on Thursday, June 26, to hear a presentation from the Detroit Institute of Art on the costumes of the Star Wars movies. Space is limited. Call 586-751-3437 to reserve a spot.



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### Trump's Trade Team Facing Difficulties

WASHINGTON (AP) – President Donald Trump's team is running out of time to rewrite a trade pact with Canada and Mexico this year just as it's confronting China and sparring with its allies over U.S. tariffs on imported steel and aluminum.

If negotiators can't agree on a revamped North American Free Trade Agreement soon - House Speaker Paul Ryan set an informal May 17 deadline - the talks could drag into 2019. Or Trump could carry out his threat to abandon the agreement he's labeled a job-killing "disaster" and throw commerce among the three NAFTA countries into disar-

"The window is closing rapidly," said Dan Ujczo, a trade lawyer at Dickinson Wright in Columbus, Ohio.

NAFTA is hardly the only urgent item on the administration's trade agenda. Trump directed the Commerce department to begin an investigation as to whether tariffs are needed on the import of automobiles in the U.S. And Trump has asked U.S. Trade Rep. Robert Lighthizer to find an additional \$100 billion in Chinese products to tax.

The prospect of a trade war between the world's two biggest economies has unnerved global financial markets and alarmed major companies.

"The stakes are too high for these talks to fail," said Christine McDaniel, a senior research fellow at George Mason University's Mercatus Center. "The U.S. economy, its firms, its workers, and its people all depend on being able to buy and sell with their counterparts at home and across the globe every day."

Talking to reporters May 17, Trump downplayed the prospect of a successful negotiation with Beijing.

president asked. "I tend to doubt

Trade sanctions could disrupt business between the countries and potentially threaten jobs. Consumers would be hurt by higher prices for imported products that are hit by tariffs.

> "The window is closing rapidly."

- Dan Ujczo, Trade Lawyer, Dickinson Wright

In the meantime, Japan, a staunch U.S. ally, is threatening to go to the World Trade Organization to protest Trump's tariffs on imported steel and aluminum. The president imposed the tariffs in March, arguing that reliance on imported metals posed a threat to America's national se-

He exempted the European Union, Canada, and Mexico - but not Japan – until June 1.

The steel and aluminum tariffs have antagonized traditional American allies. Those countries want permanent exemptions from the tariffs. Or they want them withdrawn altogether. Donald Tusk, president of the European Council, tweeted May 14 of the United States that "with friends like that who needs enemies.'

NAFTA has long been a focus of Trump's ire. But achieving a NAF-TA do-over to the president's satisfaction has always seemed a longshot. When it took effect in 1994, NAFTA ended most trade

"Will that be successful?," the barriers among the U.S., Canada and Mexico. Trade surged within the NAFTA bloc. American farmers who export corn and other products benefited from the deal.

But many U.S. manufacturers, notably automakers, moved production to Mexico to capitalize on low labor costs, and shipped their products back to the United States. The influx of imports swelled America's trade deficit with Mexico, which amounted to \$69 billion last year. (The United States posted a nearly \$3 billion trade surplus with Canada in 2017).

Trump is seeking to revamp NAFTA to try to return auto production to the United States and shrink America's trade deficit. The United States is demanding that a percentage of a car's content originate in a country - the United States or Canada - with average auto worker wages of around \$15 an hour to qualify for NAFTA's duty-free status.

But companies have built complicated supply chains that straddle NAFTA borders. In doing so, they took advantage of each country's strengths - cheap labor in Mexico, for example, and skilled workers and proximity to customers in the United States and Canada. Changing the rules, manufacturers warn, would disrupt their operations, raise their costs and put them at a competitive disadvantage with manufacturers in Asia and Europe.

Ann Wilson, senior vice president at the Motor & Equipment Manufacturers Association, which represents auto suppliers, argues that the U.S. proposal could drive up the average price of new cars, which already exceeds \$35,000.

"\$35,000 is a lot of money for most Americans," Wilson said.

The Center for Automotive Research, an independent research organization, estimates that as many as 125 types of cars could lose their NAFTA benefits under the U.S. wage requirement and become subject to tariffs.

"The tariffs would add between \$470 and \$2,200 to the cost of these particular vehicles," the center concluded in a report last month.

U.S. law lays out a process that trade agreements must follow to go before Congress for an up-ordown vote, with no amendments allowed. House Speaker Ryan said that a deal had to be struck by May 24 to start a timeline for a vote before Congress departs at year's end. Others say there's more time.

Trade lawyer Ujczo has calculated that negotiators have until around Memorial Day, May 28.

Lori Wallach, director of Public Citizen's Global Trade Watch and a sharp critic of the existing NAF-TA, said talks could go into June and still allow for a congressional vote this year.



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Army vet Young helped organize the planting of memorial flags.

## **GM Honors the Fallen For** '18 Memorial Day Holiday

by Jim Stickford

Memorial Day is a time to remember the sacrifice so many Americans have made for their country. To that end, volunteers at the GM Global Propulsion Systems (GPS) facility in Pontiac have planted 6,959 American flags in front of the GPS building on May 23 - one flag for each American killed in combat in ans.' Afghanistan and Iraq since October of 2001.

And to Stephen Young, a group leader for Wing 2 Development at GPS's Development Lab, the flags are very personal.

Young joined GM on May 8, 2017, after spending 28 years in the U.S. Army, where he was a Green Beret. He served in both the Iraq and Afghanistan theaters of operations as well as in Somalia and was stationed in places like Fort Bragg in North Carolina and Okinawa.

"I retired from the Army in 2012 at a Sgt. Major, with the E-9

forces, also known as Green Berets, and was on the Golden Knights Parachute Team my last two years in the service," Young said. "I was able to join GM because this company takes helping our veterans seriously. They offer us real opportunities. They just don't talk about helping veterans, they actually are good to their word and really help veter-

Looking at the number of flags as they were being planted meant a lot to Young.

"This event really gets to me," Young said. "When you look at these flags, you realize each one represents a person that has been killed. And each person lost has a family who has to suffer with this loss. When I see the number of flags, it's overwhelming. We live in a country where people volunteer to protect us and give us the chance to be free and live the values we esteem. When I see the number of people we have lost because of this, it's



Volunteers at GM Global Propulsion Systems in Pontiac lay down a field of flags for each fallen warfighter.

Young said that the second and third row of planted flags have the names of specific warfighters who have lost their lives since 2001 and have a connection to the people who work at GPS

"Putting this together took a lot of work," Young said. "We should really thank the GM veteran's committee - Craig Petranello, president; Tom Kava-naugh, vice president; Ethan Meske, secretary; and Dave Mooty, who put this on last year.

"They really worked hard to make this happen and deserve to be thanked.'

The flags were planted by GPS volunteers. Each row was lined up using a taut string stretched across the lawn in front of the GPS building. Volunteers placed the flags along the path of the string and made sure they lined up with the flags in front.

everything was coordinated. It those in the service. The flags reflected both the precision of will be removed on May 30.

Young said that he liked how engineers and the discipline of

#### New Auto Finance Options

advance can save car buyers both time and money on their car-shopping journey. With this in mind, Autotrader and Kelley Blue Book, both Cox Automotive companies, have teamed with LendingTree, said Kelley spokesman Andrew Nicolai.

LendingTree's auto finance marketplace provides each site's visitors simple and easy online financing that can be used for new and used cars and trucks, anywhere in the U.S.

"Bringing LendingTree's capabilities to Autotrader and Kelley Blue Book will help new- and used-vehicle shoppers by creat-

Securing vehicle financing in ing a seamless experience to research, shop for and secure financing on a vehicle all in one spot," said Jai Macker, senior vice president of product for Cox Automotive. "Our ultimate goal is to empower consumers with comprehensive new and used car information on both sites, including finance options for their specific needs while they navigate the car-shopping process."

> "LendingTree gives consumers the convenience, choice and simplicity to speed up the time it takes to shop for a car and a loan," said Dimitar Alexandrov, vice president of automotive for LendingTree.



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# **Tesla Braking Questioned**

DETROIT (AP) – Long emergency stopping distances, difficult-to-use controls and a harsh ride stopped Tesla's Model 3 electric car from getting a recommended buy rating from *Consumer Reports*.

While the magazine said the car has exhilarating acceleration and handling, testers were troubled by its 152-foot average stopping distance from 60 miles per hour in emergency braking tests.

The magazine said the distance was worse than any modern car it has tested, and is about seven feet farther than a Ford F-150, a full-size pickup that weighs about twice as much as a Model 3.

Tesla said in a statement that its own tests found 60-to-zero braking distances averaging 133 feet. It says stopping distances are affected by road surface, weather, tire temperature, brake conditioning and other factors. It also says it continually does software updates to improve factors such as stopping distance.

The Model 3 is Tesla's first attempt to appeal to mass-market buyers. The car that starts at \$35,000 but can run as high as \$78,000 has been plagued by production delays.

Consumer Reports said it tested the car at its track on pavement monitored for consistent surface friction, using industry standard test procedures.

The car was tested with the same 18-inch Michelin tires that were used in Tesla's test, the magazine said.

On the first *Consumer Reports* test, the Model 3 stopped in about 130 feet, similar to Tesla's findings, according to the magazine. But testers could not repeat that distance even after letting the brakes cool overnight.

Because of the inconsistency, the testers borrowed a second

Model 3 and got results similar to longer distances in testing the first one.

The Tesla's stopping distance was 21 feet longer than the class average for luxury compact sedans, the magazine said.

Jake Fisher, director of auto testing for *Consumer Reports*, said the first test shows him that the Model 3 has the mechanical ability to stop in 130 feet and that a software change may bring consistently shorter stopping distances. If that happens, *Consumer Reports* would re-evaluate the car, he said.

Consumer Reports also said that Car and Driver magazine experienced inconsistent and sometimes long stopping distances when it tested a Model 3, including one stop from 70 mph that took 196 feet.

Although it doesn't happen often, *Consumer Reports* in the past has decided not to recommend vehicles based largely on long braking distances. Last year, the magazine decided not to recommend the Hyundai Ioniq gas-electric hybrid car because of belowaverage braking. It took the car 144 feet to fully stop from 60 mph on dry pavement.

The magazine also said nearly all of the Model 3's controls are on a center touch screen direction with no gauges on the dashboard and few buttons inside the car. This forces drivers to take several steps to do simple tasks and can cause driver distraction, the magazine said.

The car also had a stiff ride and excessive wind noise at highway speeds, unlike competitors, *Consumer Reports* said.

Consumer Reports also said it got a record 350 miles of range per charge with a long-range version of the Model 3 when it's set on a high mode to recharge batteries with energy from braking.



The 1928 Alfa Super Sport was a winner at the 2018 Mille Miglia race.

# Alfa Romeo Repeats Itself at Mille Miglia

History has repeated itself 90 years later, with the Mille Miglia race in Italy ending in victory for the Alfa Romeo car brand.

1928 was the year of Alfa Romeo's first win at the Mille Miglia, and 2018 has seen a record-breaking edition with 450 teams competing and three Alfa Romeo cars taking the top three places. It is confirmation of the brand's unbreakable bond with "the most beautiful race in the world," said FCA spokesman Berj Alexanian said.

Alfa Romeo was the star of the event, setting a milestone, as Automotive Sponsor, as well as the winner of the top prizes on Viale Venezia in Brescia: the 2018 Mille Miglia was won by the Alfa Romeo 6C 1500 GS Testa Fissa crewed by Tonconogy-Ruffini, Alexanian said.

Finishing in second place, just eight penalty points behind the victor, the 6C 1500 Super Sport dating from 1928 with coachwork by Stabilimenti Farina, an official car from the FCA Heritage collection. The vehicle is normally on display at the Museo Storico Alfa Romeo, Alexanian said.

The car carried the race number 30, also worn by its sister vehicle that won the first Alfa Romeo victory in the Mille Miglia with Giuseppe Campari and Giulio Ramponi in 1928. It was driven in the event by Giovanni Moceri, with navigator Daniele Bonetti. Giovanni Moceri is current holder of the Italian Grandi Eventi ACI Sport Champion title and already has victories in Italy's biggest historic regularity competitions to his name, from the Mille Miglia to the Targa Flo-

rio and the Coppa d'Oro delle Dolomiti.

In third place was the Alfa Romeo 6C 1750 SS Zagato driven by Vesco-Guerini. The Alfa Romeo cars entered by FCA Heritage finished the 36th historic re-evocation of the Mille Miglia by completing the traditional Brescia-Rome-Brescia course.

"So this 2018 edition has definitely earned a place in Alfa Romeo's history, and the 'Alfa Romeo: the Mille Miglia in 90 places' project has just been launched to trace the most significant stages of the brand's history at the Mille Miglia," Alexanian said. "Since its foundation in Milan, Italy, in 1910, Alfa Romeo has designed and crafted some of the most stylish and exclusive cars in automotive history. That tradition lives on today."



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## **General Motors Providing** MIT with \$100,000 Prize

Solve, an initiative of the Massachusetts Institute of Technology, has created a \$100,000 General Motors Prize for Advanced Technologies in STEM Education.

General Motors will provide up to four Solver teams with grant funding for technology-based solutions selected in MIT Solve's Teachers & Educators and Work of the Future Challenges.

Solver teams will be selected by a panel of cross-sector judges at the Solve Challenge Finals during UN General Assembly week in New York City Sept. 23.

"General Motors is committed to preparing today's students and tomorrow's workers - to address the world's most pressing problems," said Ken Kelzer, vice president of GM's Global Vehicle Components and Subsystems.

"Supporting STEM education and open technological innovation initiatives like MIT's Solve brings us closer to cutting-edge innovators and innovations of transportation technology now and in the future.'

Selected teachers and educators will deploy advanced technologies such as artificial intelligence and machine learning to provide affordable and accessible training to educators, personalized learning for a diverse set of learners, or a holistic approach to teaching STEM, MIT spokeswoman Andrea Snyder said.

Selected Work of the Future will deploy advanced tech to prepare current and future workforces for the transformations of work that lie ahead through improved economic security, career flexibility, or new income streams.

"We are thrilled to be working with such an innovative, iconic company like General Motors as we advance Solver teams identified through Solve's Teachers & Education and Work of the Future Challenges," said Solve Executive Director Alex Amouyel.

"Through General Motors' generous prize, the selected Solver teams will be able to scale their work and impact, creating new opportunities in an ever-changing economy.

The Solve at MIT event program and confirmed speakers be found https://solve.mit.edu/events/sol ve-at-mit-2018, Snyder said.

Solve and General Motors will be hosting a Solveathon on June 8 from 9 a.m. to 3 p.m. at Tech-Town Detroit to refine and improve innovative ideas for Solve's Work of the Future and Teachers and Educators challenges, Snyder said.



Eaton volunteers at work in Southfield's Bedford Woods Park.

# Eaton Volunteers Spruce Up Southfield Public Park

Power management company Eaton's employees from its Vehicle Group campus in Southfield recently partnered with Rebuilding Together Oakland County (RTOC) as part of the National Day of Caring to renovate a local

More than 70 employees donated approximately 400 labor hours to improve Bedford Woods Park on May 10-11, said Eaton spokesman Byron Pope.

This is the tenth consecutive year Eaton Southfield volunteers have dedicated their time and effort to improving the local community.

Eaton volunteers performed a number of tasks at the community park, including:

- Spreading mulch in the play ground area:
- Water-sealing picnic tables;
- · Installing rustic park bench-• Removing dead and dam-
- aged trees; · Removing a deteriorated
- staircase; · Harvesting plant material in
- bio swale; and, Sanding and painting trash

'Community stewardship is a key part of Eaton's culture, and our 10-year partnership with RTOC is an example of our ongoing commitment to bettering the communities where we live and said Larry Bennett, Eaton's director of Vehicle Technology and Innovation.

"Eaton has enjoyed a long partnership with both the City of Southfield and RTOC, and together we have successfully identified and rehabilitated numerous sites needing maintenance and refurbishment.

Since Eaton began partnering with RTOC in 2008, the company has rehabilitated project sites around Southfield, enabled a city block rehabilitation in Pontiac, and funded a year-round home repair program, Pope said.

"Eaton is our only county-wide sponsor and has supported us over the past ten years to impact not only the city of Southfield but the entire county," said Halie Black, executive director, RTOC. "We enjoy working with their employees because they are enthusiastic, hardworking and always have a high volunteer turnout.

Thank you to all of the employees who donated their time to make improvements at Bedford Woods Park.'

RTOC is a local affiliate of Rebuilding Together, the national nonprofit organization that is dedicated to preserving affordable home ownership and revitalizing local communities, Pope

With support from volunteers, the organization provides assistance to low-income homeowners who are unable to complete their home repairs. The group includes the elderly, disabled, military veterans and families with





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# **Sherry is Named CEO of the Ford Subsidiary Autonomic**

Poised for significant growth, Autonomic, the creator of the Transportation Mobility Cloud and a wholly owned subsidiary of Ford Smart Mobility, has realigned its leadership team, officially confirming Gavin Sherry as Chief Executive Officer.

The Transportation Mobility Cloud is the first open cloud-based platform that connects the diverse components of urban mobility systems, including connected vehicles, mass transit, pedestrians, city infrastructure and service providers – with the goal of orchestrating a safer, more efficient and sustainable transportation network, said Ford spokeswoman Maggie Philbin.

"Our goal is to be the foremost connected mobility cloud globally, and I'm excited for the opportunity to power and pave the way for future cities," said Sherry, cofounder of Autonomic. "By uniting all connected vehicles on a single platform, along with other transport agencies, cities, and developers, the possibilities of how we can advance and synchronize transportation and mobility are endless."

Previously leading Autonomic's innovation as co-founder and vice president of Engineering, Sherry is now responsible for spurring the growth and adoption of the Transportation Mobility Cloud.

Autonomic's former CEO and now vice president of Ford X, a part of Ford Smart Mobility LLC, Sundeep (Sunny) Madra will serve as a board member and advisor, Philbin said.

"As cities look to improve transportation options and increase livability for their citizens, enhancing mobility is key to meeting this challenge. Gavin is the right leader to take Autonomic to the next stage of growth and

ensure the TMC becomes the foremost platform that developers and automakers use to deliver their mobility goals," said

Autonomic's executive team hails from Amazon Web Services, Pivotal, Proofpoint, Greenplum (acquired by EMC) and Xtreme Labs (acquired by Pivotal), Philbin said. The team has a track record of delivering large-scale, high-impact cloud and distributed systems and several executives were instrumental in building the first version of Amazon Web Services, and leading consumer, open source and cloud software.

Now, the team is taking a similar approach to creating a transportation platform at a scale that paves the way for all developers and automakers, in addition to Ford, to build on the Transportation Mobility Cloud.

As part of Sherry's appointment into the role of CEO, Autonomic's executive leadership is elevating to further meet the needs of the industry and the company's partners, which include auto manufacturers, developers, parts suppliers and fleet operators, Philbin said.

Sherry has more than 20 years of experience in data processing, machine learning and engineering large-scale Internet systems globally and will advance the company's vision of accelerating the transformation of the transportation industry, said Philbin.

Previously, Sherry served as Autonomic's vice president of Engineering. Prior to Autonomic, Sherry served as the vice president of Engineering at Pivotal, where he was instrumental in the development of the company's big data suite, which brought significant data warehousing and analytics to the cloud for enterprise.



**Gavin Sherry** 

Leveraging his experience building open-source software and data processing technologies, Sherry went on to co-found Autonomic in August of 2016 with fellow Pivotal alums Madra, Nithin Rao, Amar Varma, and Benjamin Black, Philbin said.

Black, Autonomic's CTO, previously held senior technology roles at Pivotal, Microsoft and Amazon, and was an early Amazon employee who co-wrote the paper that would become Amazon Web Services. In addition, Black worked at Microsoft where he helped build Office 365, its answer to Google Apps, and, prior to that, founded a startup called Boundary, which monitored computer networks.

COO Varma co-founded Xtreme Labs with Madra and has 20 years of experience as an entrepreneur and investor in high-profile technology companies.

General Counsel Julie Davies has more than a decade of experience advising public and private companies, venture capitalists and corporate investors in matters arising during every stage of a company's lifecycle. Prior to Autonomic, she was a partner in the Palo Alto office of Morgan, Lewis & Bockius LLP.

Engineering Vice President Caleb Welton has worked in data processing and machine learning his entire career. He led the development of MADlib, an open-source scale-out machine learning library. Prior to that, he was a key member of the Greenplum Database team (acquired by EMC).

Nithin Rao, vice president of Product Management, has more than 20 years of experience combining business, technology and product strategy. Rao is a technology veteran. Prior to Autonomic, he was a key member of the product teams at Pivotal and Proofpoint.

Board member Madra cofounded Autonomic and served as CEO until Ford Smart Mobility acquired it in February 2018, and also co-founded Xtreme Labs (acquired by Pivotal in 2013). He is currently vice president, Ford X at Ford Motor Company and is an experienced entrepreneur, investor and technologist.

In addition to growing its team in Silicon Valley, Autonomic is building a team in Detroit, investing in the community's local talent and focusing on core vehicle connectivity and mobility problems. The company also aims to expand the reach of the Transportation Mobility Cloud by establishing partnerships with additional OEMs, and introducing more developers to the platform.

# Continental Goes 3D by Increasing DigiLens Outlay

The auto supplier and technology company Continental is increasing its investment in DigiLens Inc., the Silicon Valleybased leader in holographic waveguide projection technology.

With its additional investment, Continental, which has its North American headquarters in Auburn Hills, will hold close to 18 percent of DigiLens after Series C financing round, said Continental spokeswoman Mary Araf

Continental first invested in DigiLens in 2016 through a strategic partnership to jointly develop a waveguide head-up display (HUD) that fulfills automotive requirements, the technology is now ready for industrialization, Araf said.

DigiLens' holographic waveguide technology enables headup displays for different applications including automotive, aviation and motorcycle helmets, Araf said.

The company's AutoHUD waveguide product transforms the HUD performance by doubling the field of view, making a much larger display required for augmented reality applications, while reducing the component volume to one-sixth of the traditional size.



 ${\it The~2019~Ford~F-150~Raptor~features~a~live~valve~suspension~system.}$ 

# Ford Upgrades 2019 Raptor Using Computer Technology

CONTINUED FROM PAGE 1

systems where one basically sets the shocks and that's that.

"We were able to create this active control shock system without changing the Raptor's physical architecture," Paiva said.

"We developed this with a lot of input from Raptor owners. They always want to push the boundaries of what their trucks can do, making aftermarket adjustments to the Raptor very popular. Visit any online forum dealing with the Raptor and you will see that.

"So that drove us to create a live valve suspension system that no other original equipment maker has as standard.

"What is different about this system is that it has developed its own control system. Drivers can set it to normal, sport or offroad."

And the Raptor even has technology that allows it to read front sensors to determine what the road, or off-road, conditions are and adjust the suspension accordingly, Paiva said.

"That's great for avoiding accidents where the truck bottoms out while traveling over bumps," he said. When the truck senses rough conditions, the suspension shifts so that the truck drives softer.

When the truck does not sense that kind of obstacle

ahead, the suspension becomes stiffer

Paiva said now that Ford has developed the proper software and hardware, it wouldn't be difficult to add it to other vehicles in the Ford portfolio.

"Raptor's success is rooted in its incredible suspension, superb vehicle control and the confidence the truck instills in its owners," said Hermann Salenbauch, global director, Ford Performance vehicle programs.

"Upgrades to the 2019 F-150 Raptor have improved all three to new levels that the competition will have to benchmark – again."

To enhance Raptor's internal bypass shocks, Ford Performance worked directly with FOX to develop new electronically controlled Live Valve technology for the new platform that continuously adjusts damping in real-time. This class-exclusive setup uses sensors in the suspension and body to maximize comfort, handling and bottomout resistance.

"By automatically varying compression rates, Raptor can now make the most of its suspension travel of 13 inches at the front and 13.9 inches at the rear," said Salenbauch. "The 2019 Raptor is not just more capable off-road. It's smarter."

Paiva said the 2019 Raptor will hit the showroom floor by the end of 2018.

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#### **Public Has Doubts About Autonomous Tech**

Following high-profile incidents involving autonomous vehicle technologies, a new report from AAA's multi-year tracking study indicates that consumer trust in these vehicles has quickly eroded.

Today, three-quarters (73 percent) of American drivers report they would be too afraid to ride in a fully self-driving vehicle, up significantly from 63 percent in late 2017, said AAA spokeswoman Erin Stepp.

Additionally, the AAA report, which was issued on May 22, stated that about two-thirds (63 percent) of U.S. adults report they would actually feel less safe sharing the road with a selfdriving vehicle while walking or riding a bicycle.

"Despite their potential to make our roads safer in the long run, consumers have high expectations for safety," said Greg Brannon, AAA's director of Automotive Engineering and Industry Relations.

"Our results show that any incident involving an autonomous vehicle is likely to shake consumer trust, which is a critical component to the widespread acceptance of autonomous vehi-

Brannon said surprisingly, AAA's latest survey found that Millennials – the group that has been the quickest to embrace automated vehicle technologies were the most affected by these incidents.

The percentage of Millennial drivers too afraid to ride in a fully self-driving vehicle has jumped from 49 percent to 64 percent since late 2017, representing the largest increase of any generation surveyed.

"While autonomous vehicles are being tested, there's always a chance that they will fail or encounter a situation that challenges even the most advanced system," said Megan Foster, AAA's director of Federal Affairs. "To ease fears, there must be safeguards in place to protect vehicle occupants and the motorists, bicyclists, and pedestrians with whom they share the road."

AAA supports thorough testing of automated vehicle technologies as they continue to evolve, including testing under progressively complicated driving scenarios and under varying conditions, but not at the expense of safety, Foster said.

Additionally, to help prevent the accidental misuse of the systems, AAA advocates for a common sense, common nomenclature and classification system, and similar performance characteristics of future autonomous vehicle technologies, Foster said.

There are sometimes dozens of different marketing names for today's safety systems," continued Brannon.



AAA says trust in autonomous cars has reached a record low.

"Learning how to operate a vehicle equipped with semi-autonomous technology is challenging enough without having to decipher the equipment list and corresponding level of autonomy."

To help educate consumers on the effectiveness of emerging vehicle technologies, AAA is committed to the ongoing, unbiased testing of automated vehicle technologies, Brannon said. Previous testing of automatic emergency braking, adaptive cruise control, self-parking technology and lane-keeping systems has shown both great promise and great variation.

Future AAA testing will look at how well systems work together to achieve higher levels of automation, Foster said.

#### China to Lower Car Tariffs

by JOE McDONALD AP Business Writer

BEIJING (AP) - China said May 22 it will reduce auto import duties effective July 1 following pledges to buy more U.S. goods and end restrictions on foreign ownership in the industry.

President Xi Jinping promised the changes in April amid mounting pressure from Washington to narrow China's multibillion-dollar trade surplus with the United States, though Chinese spokespeople said they had nothing to do with that dispute.

The Finance Ministry said charges for many imported vehicles will be cut from 25 percent to 15 percent to promote development of the Chinese industry and increase availability of goods for consumers.

That still would be higher than the 2.5 percent United States tariff on imported autos but less than the 25 percent charged by Washington on imported pickup trucks.

The immediate impact of the changes is expected to be limited. Most cars sold in China by global automakers are produced in local factories, but the tariff cut could give them more flexibility in supplying additional models produced abroad.

Beijing used tariffs and other curbs over the past three decades to prod global auto brands to shift production to China and help develop the local industry.

China is the world's biggest auto market by number of vehicles sold. Purchases of SUVs, sedans and minivans totaled 24.7 million units in 2017, compared with 17.2 million for the United States, the No. 2 market.

Xi's government promised May 19 to increase imports of American goods following talks in Washington on the trade balance, Beijing's technology policies and other disputes.

China's move to ease controls on its auto market reflects growing official confidence in fledgling Chinese automakers and a desire to make the industry more flexible as Beijing promotes development of electric



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#### Ford Restarts Its F-150 Truck Production

to restart production of the popular F-150 at Dearborn Truck Plant on May 18 after just over one week of downtime.

The company has also successfully repaired the supply chain for Super Duty, with production restarted at the Kentucky Truck Plant, as well as the Kansas City Assembly Plant that also makes F-150 pickups, said Ford spokeswoman Kelli Felker.

This follows the massive May 2 fire at the Meridian Magnesium Products facility in Eaton Rapids,

While the situation remains extremely dynamic, our teams are focused on returning our plants to full production as fast as possible," said Joe Hinrichs, Ford's president of Global Operations. "The ramp-up time to full production is improving every day.

Ford teams, together with suppliers - including Walbridge and other contractors - worked nearly around the clock to get F-150 production back on line as quickly as possible.

The teams removed 19 dies from Meridian's badly damaged facility, and in one case, moved an 87,000-pound die from Eaton Rapids to Nottingham, U.K., via an Antonov cargo plane - one of the largest in the world – in just 30 hours door-to-door, Felker said. A die is a tool used to cut or shape material using a press.

"Faced with unexpected adversity, the Ford team, including our global supply partners, showed unbelievable resiliency, turning a devastating event into a shining example of teamwork," said Hau Thai-Tang, Ford's executive vice president of Product Development and Purchasing.

Thanks to their heroic efforts, we are resuming production of some of our most important ve-

Ford Motor Company was able hicles ahead of our original targets."

Work started immediately in the aftermath of the May 2 fire, Felker said. Teams removed and remediated safety concerns - including dangling siding - and restored electricity, gaining approval to access the site while debris still smoldered inside.

This allowed Ford and Meridian to safely retrieve and relocate tools to more quickly resume part production and work to minimize the financial impact of the stalled plants.

Ford recovered, repaired and validated most dies that were at the Eaton Rapids facility, and Meridian is now producing parts for the F-150 at two locations -Eaton Rapids and Nottingham, U.K., Felker said production of bolsters for Super Duty also restarted at Eaton Rapids.

Under normal circumstances, moving tooling the size of a bolster die would take approximately 10 days just to get the proper import and export approvals, Felker said. However, Ford and its suppliers managed to cut the total time for the entire move to

30 hours, including trans-Atlantic flight time.

When the team removed the die from the Eaton Rapids factory, it was shipped to Rickenbacker International Airport in Columbus, Ohio, Felker said. Rickenbacker had both the capacity to handle such a large piece of equipment and allowed the Antonov An-124 Russian plane - typically used to transport trains, dump trucks and even a 25-foot sea yacht - to take off as soon as the equipment was

Nearly 4,000 miles away, a team in Nottingham was waiting to receive the die and take it to Meridian's nearby factory. In between, the Ford team received a U.K. import license for the die - a mere two hours before the plane touched down. Parts produced at Nottingham are being shipped via daily flights on a Boeing 747 jet until production in Eaton Rapids returns to pre-fire levels.

Inventories of the F-Series pickups and other vehicles remain strong and customers won't have a problem finding the model they want, Hinrichs said.



The first post-fire Ford F-150 rolls off the line at Dearborn Truck Plant.

# 3:00 80° 96.3 ₱ 2 I Am Alive Jason's iPhone PASSENGER AIRBAG OFF 🔀 ON 🚳

Waze users can now see real-time traffic and navigation service.

# Ford Adopts Use of Waze System for Better Driving

It's important for the driver to lanes (carpool lanes), providing keep his or her hands on the steering wheel and Ford has just made that easier thanks to a partnership with Waze.

Waze is GPS navigation software that works on smartphones and tablets with GPS support, Ford spokeswoman Michaela Johndrow.

Waze users around the world can now project the app's realtime traffic and navigation service onto the touch screen in Ford vehicles via SYNC AppLink and control it through voice command. Johndrow said. For owners of Ford SYNC 3-equipped vehicles, this allows easier access to features that include finding efficient traffic routes, locating cheaper fuel prices and reporting traffic accidents.

To use, customers simply connect their Waze-equipped iPhone to the USB port of their Ford vehicle and view the service as it is projected onto the vehicle touch screen, Johndrow said. With Ford SYNC AppLink, users can now conveniently access the app's features on a larger display and have voice guidance through their own vehicle speakers and microphone system.

"Our goal is to make it as easy as possible for people to access the smartphone features, apps and services they care about most in the car, without having to pick up their device," said Don Butler, executive director of Ford's connected vehicle platform and product.

"With Waze, our customers get the benefits they're accustomed to with the added luxury of experiencing them on a bigger screen.

In addition to the ability to report on heavy traffic, accidents and fuel prices, Ford's integration of Waze includes recent app updates such as talk to Waze, which lets you control the app via voice command. Butler said. Features also include route support for high-occupancy vehicle

additional navigation options and more accurate arrival times.

"We're excited drivers of Ford SYNC 3-enabled vehicles will now be able to use Waze for iOS right from their dashboard, getting access to features like planned drives, alternative routes, talk to Waze voice commands and more," said Jens Baron, product lead, in-car applications, Waze.

"They'll also benefit from the best routes and most accurate ETAs, thanks to our global community of drivers on the go who update the map in real-time helping our mission to one day eliminate traffic."

To deliver optimal driving directions and traffic updates, Waze uses crowdsourcing to gather information about road conditions from all of its users. People simply type in their destination and drive with the app open to contribute data to Waze's community of users.

At the same time, people can take a more active role by sharing reports from the road, including notifying the community of accidents, hazards or route changes that were previously un-

By working together, said Butler, the aim is for people to help each other improve the quality of their commute. Waze can help commuters avoid congested roads in favor of other routes, or see when their friends are expected to arrive at their destination. Users can even help each other save a few dollars by sharing fuel prices as they travel, allowing people to navigate to the cheapest nearby station.

To access Waze on AppLink in your Ford vehicle, Butler said drivers will need SYNC 3 software version 3.0 or greater installed in their vehicle. They will also need iOS 11.3 and the Waze app downloaded on their phone. Ford.com has a complete set of instructions.

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#### 2018 Summer Jazz Series

2018 marks Prestige Automo- said. Prestige Mercedes-Benz of tives fifth season of free community concerts sponsored by Gregory Jackson, owner and operator of the Prestige Automotive Group based in Metro-Detroit

The Jazz on the River summer concert series features 13 bands with performances held every Thursday night June 7 to Aug. 30 from 7 to 10 p.m. at the Roberts Riverwalk Hotel in downtown Detroit. Rain location is inside the banquet area located onsite.

"Please join us as we participate in the revitalization of the riverfront by bringing jazz and music arts to the area for all to enjoy," Jackson said.

The concert series highlights a variety of jazz-influenced genres from Big Band Jazz, Latin, Funk, Soul, and more. The summer concert lineup will feature different local and international favorites each week, Jackson

St. Clair Shores, Prestige Courtesy Ford of Okemos, and Prestige Cadillac of Warren will put the new Mercedes-Benz, Ford, and Cadillac vehicles on display.

The June 7 concert will feature music by the band 313 Detroit Live. Phil Denny will perform at the June 14 concert and Ralphe Armstrong will be the featured player at the June 21 concert.

The Band Straight Ahead plays on June 28, followed by Walter White on July 5 and Larry Lee & The Back in the Day Band on July 12. Daryl Beebe plays on July 19 and The Sun Messengers perform on July 26.

The Aug. 2 concert features Charles and Gwen Scales. 313 Detroit Live returns on Aug. 9. BF Legacy Jazz plays on Aug. 16, Ed Stone and the Flow Masters on Aug. 30. LL7 Latin Jazz finishes the series on Aug. 30.





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