



This 2017 Chevrolet Silverado HD set a Guinness World Record last month for pulling the biggest flag.

## With American Flag Flying Behind It, Chevy Silverado HD Sets World Record

They have world records for just about everything, including “World’s Largest Flag Pulled by a Moving Vehicle.” And Chevrolet on Sept. 28 set that Guinness World Record. Chevy did it with a 2017 Silverado HD powered by a new, more powerful version of the Duramax 6.6L V8 turbo-diesel engine, said

Chevy spokesman Monte Doran . With an SAE-certified 445 horsepower (332 kW) and 910 lb.-ft. of torque (1,234 Nm) – a 19 percent increase over the current Duramax 6.6L – the new engine produces the most torque ever in a Chevrolet vehicle, for exceptional pulling power and effortless trailering and hauling.

That includes flying nearly 3,200-square-foot flags. “This is something we first did for the Indy 500 this year,” Doran said. “We used a 30- by 50-foot flag for the driver introduction before the race started. And it was a huge hit with consumers.

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On-the-Go H2O system collects, filters and pumps water to cupholders.

## Ford Employees’ Creative Efforts Pump Out Ideas

It’s not exactly turning water into wine. When Doug Martin read about a billboard in Lima, Peru, that advertised a system that turned humidity into drinking water for the local population, an innovative idea struck: What if cars could be a source of water? And that was the beginning of a great idea, said Ford spokesman Alan Hall. Condensation from vehicle air conditioners, which usually just drips to the pavement below, could be used in much the same way. Hall said Martin, a powertrain controls engineer, worked with colleague John Rollinger to bring the idea to life, creating a prototype system that collects, filters and pumps the condensation directly to a faucet located inside the car. Martin and Rollinger’s innovation is one of a growing number of inventions created by Ford

employees in recent years. The increase in innovation – as measured by invention disclosures – is expected to reach a company record in 2016, topping last year’s record of more than 6,000. The number of inventions isn’t the only figure increasing at Ford. The number of individual Ford employees creating inventions has reached record levels since the start of 2015, with more than 3,500 first-time inventors submitting new innovations, Hall said. “The significant increase in first-time inventors is a result of our push to drive innovation in all parts of our business,” said Raj Nair, Ford executive vice president, Product Development, and chief technical officer. “At the same time, we’ve ramped up global innovation challenges, where we seek new ideas compa-

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## XT5 Cited as Tough, Safe

The 2017 Cadillac XT5 crossover with optional front crash prevention has earned a rating of 2016 Top Safety Pick+ (TSP+) by the Insurance Institute for Highway Safety (IIHS). The rating is the highest rating a vehicle can earn from the IIHS. To qualify for a TSP+ rating, a vehicle must earn good ratings in the five crashworthiness tests – small overlap front, moderate overlap front, side, roof strength and head restraints – and an advanced or superior rating for front crash prevention. “Passenger safety was one of our top priorities when we engineered the XT5,” said Paul

Spadafora, XT5 chief engineer. “We equipped the XT5 with Cadillac’s full set of driver awareness and driver assistance systems to aid collision avoidance. Just as importantly, we designed an advanced structure that is both stiffer and lighter, for excellent crashworthiness. This included a revised front structure that specifically targets the challenging offset barrier scenario.” IIHS editors wrote of the 2017 XT5 that it “earns good ratings in all five of the Institute’s crashworthiness evaluations. When equipped with optional front

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The 2017 Cadillac XT5, shown here, is being safety-tested by IIHS.

## World Mobility Leaders See a Bold Future Where Private Cars Leave Big Cities

by Jim Stickford

A lot of bold statements were made at the recent World Mobility Leadership Forum held last week at the Detroit Westin Airport Hotel, including one prediction that perhaps as soon as in a decade, privately-owned cars would disappear from big cities. The statement was made by Emily Castor, director of Transportation Policy for Lyft. She was just one of several speakers at the conference who talked about the future of the automotive industry in general,

and autonomous transportation in particular. Hans-Werner Kaas, a senior partner and head of the Detroit office of McKinsey & Company, a 90-year-old firm that advises both businesses and governments, said that the key thing to remember about the new concepts of mobility is that they must work as services. If people are to give up ownership of private vehicles, he said, the services that replace them – Uber, Lyft, public transportation, etc. – must work on very basic levels.

First, the technology making any new services possible must be reliable and be operable in a safe way. Second, the experience of using new ways of traveling must be pleasant. Finally, it must be affordable, Kaas said. “A redefined mobility experience and shared vehicle experiences will depend on maintaining the independence that ownership provides people,” Kaas said. “They will want that experience to be preserved.” He said this in an exclusive

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(From left) Mal, Sheikha, Gulash and Fernandez talk about creating an ideal mobility ecosystem for the future.



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## Cadillac's XT5 Awarded Top Safety Rating

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crash prevention, it earns a superior or advanced rating, depending on the package selected.

"When equipped with both Front Automatic Braking and Low-Speed Front Automatic Braking, the SUV earns a superior rating for front crash prevention.

"In the 12 mph IIHS track test, it consistently avoided a collision. In the 25 mph test, it avoided a collision in four out of five runs and slowed but didn't stop completely in the fifth.

"When equipped with low-speed autobrake only, the XT5 earns an advanced rating. It avoided a collision in the 12 mph test, while in the 25 mph test, the impact speed was cut by 9 mph.

"Both front crash prevention packages also include forward collision warning that meets National Highway Traffic Safety Administration criteria."

The 2017 XT5 is standard with seven airbags, said Cadillac spokesman Donny Nordlicht. On-Star's suite of emergency services, including Automatic Crash Response, is available. The XT5 also offers numerous advanced safety systems included in the Driver Awareness and Driver Assist Packages.

The Driver Awareness Package includes the Safety Alert Seat, Forward Collision Alert, Lane Keep Assist with Lane Departure Warning, front pedestrian detection, Front Automatic Braking and IntelliBeam headlights (automatic high beam). It is available on the XT5 Luxury trim level and is standard on XT5 Premium Luxury and Platinum.

The Driver Assist Package includes adaptive cruise control, Automatic Safety Belt Tightening, Automatic Park Assist, Automatic Collision Braking and Front and Rear Automatic Braking. It is available on the XT5 Premium Luxury and Platinum trims.

# Chevrolet, Partners Working to Create Better Trailering

Each year, approximately 1.2 million horse, boat, RV and work trailers are sold in the United States.

These trailers are primarily pulled by fullsize trucks and SUVs, said GM spokesman Nick Richards.

He said Chevrolet believes there is an opportunity to help trailer manufacturers and industry leaders better understand the future direction of truck and trailering technology.

To that end, Richards said, Chevrolet is partnering with the Recreational Vehicle Industry Association (RVIA) and the National Association of Trailer Manufacturers (NATM) to create a more integrated trailering experience for trailer owners.

"Our owners are often towing something – from an RV to construction equipment – that is more valuable than their truck," said Tim Herrick, General Motors



Trailer capacity for trucks like this 2017 Chevrolet Silverado 2500 matter.

future truck executive chief engineer. "Unequivocally, they tell us that they are looking for a better towing experience. Safer, easier, with more integration between their trailer and their truck."

By working directly with the industry, Herrick said Chevrolet will help trailer manufacturers develop technologies that improve combined trailer and truck safety and industry safety stan-

dards. The partners will also work to increase communication between truck and trailer to provide the driver with more information and help alert customers to prevent trailer tampering or theft.

"This partnership with Chevrolet is part of the trailer industry's continued commitment to improving safety," said Pam Trusdale, executive director, NATM.

"We are confident that we can collectively improve not only the towing experience for consumers but also public safety, which is why NATM is excited about working with Chevrolet."

"Safety and ease of use are key considerations for families that use RV trailers," said Bruce Hopkins, RVIA vice president of Standards.

"We're pleased to partner with Chevrolet and NATM on this project to create a safer, simpler and easier towing experience."

## The Science Behind Your Car's Chirps, Bells and Whistles

by TOM KRISHER  
AP Auto Writer

DEARBORN, Mich. (AP) – Whether it's the pleasant greeting when you slide into the driver's seat or a loud, annoying beep that warns you of an imminent crash, there's science behind the noises that your car makes.

Nearly all automakers have engineers and others assigned to special groups that make sure musical greeting sounds are pleasant and that warnings like forward collision alert are so annoying they get a driver's attention fast.

"It's critical," said Sean DeGennaro, a vehicle harmony engineer at Ford Motor Company in Dearborn. "If we get it wrong, you

don't know that you have low tire pressure, you don't know that you're low on fuel, and all of a sudden you're stuck on the side of the road."

As recently as a decade ago, there wasn't much research behind the chirps, bells and chimes inside cars. Most automakers had a dedicated speaker for the sounds, and some even used the crude noise from electrical relays for turn signal clickers and other alerts. But as more features have been added in cars and trucks, the number of sounds has grown, and their functions have become more important.

The average car has 10 to 15 different sounds for anything from keys in the ignition with the door open to seat belt reminders. Some luxury vehicles, or even

mainstream cars with a lot of advanced safety features, can have as many as 20 noises. That's only going to grow as more safety features are added on the way toward self-driving cars.

Teams at automakers, some with music backgrounds, come up with the sounds for the various devices. Then they are often tested with real drivers to find out if they're annoying enough for emergencies and soothing enough for greetings. And the cars have to be programmed so the sounds coincide with dashboard text alerts.

On Ford and Lincoln vehicles, the sounds run through the audio system to produce chords, said DeGennaro. The frequencies of major chords tend to be more soothing, while minor chords can

be annoying. "It's up to us to pick the right frequencies that can deliver either the harsh or positive sound that we want," said DeGennaro, an engineer who sang in the choir and took music theory classes in high school.

It's then up to field tests with real drivers. Ford, General Motors and other automakers play different frequencies for drivers in tests and ask them to rate how pleasant or annoying they are. Sometimes, they want annoying, as in the case of the shrill staccato beeps that warn GM drivers to brake because they're nearing a collision.

Currently, GM can only do two single-frequency tones played over the audio system speakers, but it's testing more sophisticated sounds across the globe.

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11 lucky children recently got to live their soccer dreams with Manchester United, thanks to Chevrolet.

## Chevrolet Promotes Brand With Soccer

As part of its mission to inspire fans of all ages to make the most of life's possibilities through football, for the third year in a row Chevrolet hosted 11 children in Manchester, England, in late September as mascots for Manchester United's match versus Leicester City.

The children – ages 8 to 13 from China, Colombia, Mexico, South Korea, the United Arab Emirates and the United States – met with Manchester United players and the club manager, said GM spokesman Craig Daitch. They also got to attend Manchester United's football school and tour the club's stadium in the days ahead of the Sept. 24 match.

Chevrolet selected these special children, Daitch said, because they were able to embody the spirit of play and have demonstrated how embracing football in a positive way has changed their lives.

"Football inspires the kind of passion in people around the world that can transcend cultural and political differences and unite communities in a transformative way, and for our children, it is a game that teaches them that anything is possible through hard work and dedication," said Tim Mahoney, chief marketing officer, Global Chevrolet. "The 11 children chosen to be mascots this year truly embody the 'never give up spirit' that is at the core of everything we do at Chevrolet. We are proud to honor these remarkable children."

The highlight of their once-in-a-lifetime experience, Daitch said, was walking onto the Old Trafford pitch with Manchester United's first team with each player wearing a matched shirt that had the name of each child printed on the back of the shirt.

And, Daitch said, the event got even better. Moments before the match, Manchester United players removed their shirts and presented them to the mascots, replicating one of the game's most sporting traditions.

It is common in soccer, Daitch said, for players to exchange their shirts after a match.

As part of its Beautiful Possibilities program, Daitch said, Chevrolet helps children to have greater, reliable and safe participation in football by working with local nonprofit organizations to revitalize and transform communities, including building 10 pitches to date in countries including China, South Korea and the United States.

During recent pitch revitalization projects, Chevrolet worked

with local nonprofits to identify children for an opportunity to participate in this week's special experience. Chevrolet also crowdsourced its fan community, asking fans to nominate the 11th member of its Starting XI – the winner came from Mexico.

"Chevrolet's mascot moment is becoming a fine tradition in the Old Trafford calendar, an initiative that complements what the club stands for," said Manchester United Group Managing Director Richard Arnold.

"While we are proud of our global reach, we recognize that when our players take to the field, children around the world dream big, hence Sir Bobby Charlton famously described Old Trafford as the 'Theatre of Dreams.'"

"Thanks to Chevrolet, these 11 children will have an unforgettable, inspirational day. Our players will be proud to walk through the tunnel with some of our youngest fans, wearing their names and sharing their pride for football."

In addition to its Beautiful Possibilities program, Daitch said that since 2012 Chevrolet has brought play to an estimated 45 million youth in under-

privileged and underserved communities around the world.

The brand has distributed more than 1.6 million ultra-durable footballs from One World Play Project in more than 90 countries.

Chevrolet, the official sponsor of One World Play Project, has committed to distributing 2 million One World footballs, which the mascots used to make penalty kicks at halftime during the Sept. 24 match.

This is the third consecutive year Chevrolet has brought children from around the world to Manchester to participate as mascots, an experience the brand plans to continue, Daitch said.

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## Silverado HD Pulls Giant Flag, Sets World Record

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You could hear the roar of the crowd before you could actually see the flag coming. What we then decided was to see if it could be certified as a world record.

"The people at Guinness said the flag had to be larger than 250 square meters to be a record. We decided if you're going to go, go big. This flag is 296 square meters.

"It was an amazing thing to watch the flag go around. It gives you goose bumps seeing an American flag this big flapping in the breeze as it's being pulled by a truck."

"The Duramax 6.6L's 445 horsepower and 910 pound-feet of torque are dramatic numbers, deserving of a dramatic introduction," said Sandor Piszar, Chevrolet Truck marketing director.

"And it's all the more fitting to introduce it on the eve of the State Fair of Texas, in the country's largest truck market."

The United States flag flown by the Silverado HD for the record-setting drive measured nearly 40 by 80 feet, with an area of 3,186 square feet, Doran said.

To set the record, the truck had to travel 100 meters (328 feet) without the flag touching the

ground. The Silverado more than exceeded that requirement, completing four laps around the Texas Motor Speedway's 1.5-mile oval.

Chevrolet actually created two flags for the event, Doran said, the U.S. flag used for the world record and a State of Texas flag to commemorate the start of the 2016 State Fair of Texas. Both flags will be on display at the State Fair through Oct. 23.

Unique 40-foot riggings on the trucks were designed to fold rearward, enabling the Silverado HDs to quickly enter and exit the track, Doran said.

That design requirement made it impossible to enable a driving roll-out of the massive flags. Instead, a team of 20 people launched and retrieved the flags, ensuring they did not touch the ground.

"The new Duramax delivers impressive output, but what customers will appreciate the most is an improved driving experience," said Eric Stanczak, Silverado chief engineer.

"It delivers quicker acceleration in virtually all measures, more confidence when trailering up a steep grade, better engine braking on descent and more refined noise levels cruising on the highway."

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# Ford Employees' Creativity Pumps Out Ideas

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ny-wide and then – coupled with input from employees – see how we can further those ideas.”

Ford innovations highlighted recently at the company's annual “Further with Ford Trends” conference include a passenger-centric, remote-control SYNC system that could give ride-sharing passengers control of the infotainment screen; and a transportable device that can move people and objects short distances where cars aren't accessible.

Martin's idea to turn cars into a source of water boils down to the reality that fresh water is a scarce resource.

“All that water going to waste should be recovered to serve a purpose,” said Martin. “The real vision is that this idea could eventually help people who don't have easy access to water, in remote locations such as the Australian Outback, for example.”

As an explanation for his work on this project, he said, “I'm trying to make my twin daughters proud, and make the world a better place for them.”

To test his idea, Martin discovered that a car can produce more than 64 ounces of water per hour, the equivalent of nearly four water bottles. Naturally, this means fewer roadside stops to pick up bottled water on a road trip, a nice convenience, along with fewer plastic bottles filling trash heaps.

But the benefits extend much further, potentially curbing the global water crisis, which, according to the World Health Organization, affects one in 10 people and leaves hundreds of millions without clean drinking water.

Innovation comes easily to Martin, who holds roughly 70 auto-related patents. After graduating with bachelor's and mas-

ter's degrees in electrical engineering from the University of Michigan in Ann Arbor, he came to work for Ford. He's been with the company for 22 years.

This Ford innovator envisions a day in which people might say, “I can't believe we used to waste all that water.”

Hall said this idea is just one of the many great ideas generated by Ford employees.

For example, when the question came up about empowering the passenger in a ride-sharing service who typically has little control over the journey, a few Ford employees had an answer.

For Ford's Oleg Gusikhin, Omar Makke and Jeff Yeung, the challenge was easily addressed through their experience working with Ford SYNC.

“By rethinking mobile connectivity from the passenger's perspective, we saw how we can use smartphones to give riders control through SYNC without the need to be directly paired via Bluetooth,” said Gusikhin.

Ultimately, this thinking spawned a new software invention – SYNC Remote Control – Hall said. With the support of Ford's Perry MacNeille and Jack Van Hoecke, the idea evolved in a matter of months into a remote function that allows passengers to control SYNC features like radio and climate settings.

When a passenger gets into a ride-sharing car, he or she taps a mobile device that automatically opens an app interface that gives him or her control of the radio and climate.

Eventually, any controllable feature, like the passenger seat and more, could be added. It works, because it uses open-source software to connect the rider's phone to SYNC through the driver's phone – without additional pairing.

The software includes a translation feature for when driver and rider don't speak the same language. The rider simply types what he or she wants to say into the phone, and SYNC conveys it in the language of the driver.

“You don't have to talk long to Gusikhin, Makke, Yeung and the support team to tell they're as excited as anyone about a future in which the smartphone becomes the main way to not only order, but also manage, your ride,” Hall said.

“Effectively, your smartphone becomes your car, helping personalize and control your journey in a way that's familiar to you.”

In another example, Kilian Vas, a Ford systems engineer in Cologne, Germany, knows that the last part of any urban commute can be tricky.

“You've just stepped off the train, or drove into and parked in the city, and you still need to walk or bike to your destination,” Hall said.

So when Ford issued an innovation challenge for a device to help people handle city life and get around town, the forward-thinking Vas couldn't help but answer. For many, his innovation – a four-wheeled electric pedestrian assistant called Carr-E – is a welcome alternative to getting around the city.

Carr-E's multipurpose functionality separates it from other electric personal transportation devices. In addition to carrying riders, Carr-E can be used to transport heavy objects. Users simply place the object on the device and it will follow an electronic transmitter they keep in their possession.

Vas was inspired to create the device's compact, circular design, Hall said, when he noticed the empty space inside the spare



This Carr-E device is one of Ford's many new inventions.

wheel well of his car. Commuters can easily store it in a vehicle, then pull it out and use it in places where cars aren't permitted or practical.

“Innovation is really important for me,” said Vas, who collaborated with colleagues Daniel Hari and Dr. Uwe Wagner, and worked with designers from Ford of Europe and prototyping specialists from RWTH Aachen University to create Carr-E.

“I was inspired by Ford's expansion into both an auto and a

mobility company, as well as our founder Henry Ford's dedication to transforming transportation.”

Vas has been innovating since coming to Ford three years ago with a bachelor's degree in automotive engineering and a master's in mechanical engineering, both from the University of Applied Science Dortmund, Hall said.

Vas's first innovation at Ford, a head restraint that folds to allow space for a child seat and has foldable wings for napping, was patented.

## Free Adult Dental Care

Dr. Krista L. Wortman will be providing adults with free dental care on Saturday, Oct. 8.

Wortman's efforts are part of a larger effort by the organization Dentistry From The Heart, said group spokeswoman Michelle Sotil.

“In 2001, Dentistry From The Heart started with Dr. Vincent Monticciolo as a way to giving back to the community and provide aid to the growing number of Americans without dental in-

surance,” Sotil said. “Dentistry From The Heart has grown to include over 200 annual events nationwide and around the world. More than 80,000 people have now been served. Free extractions, fillings and cleanings are offered.”

Wortman's practice, called Summit Family Dental, is located at 8136 21 Mile Road in Shelby Township, Sotil said.

Those interested in setting up an appointment should call 586-726-0606. The contact is Denye.

Dentistry From The Heart is based in New Port Richey, Fla., Sotil said, and is a worldwide nonprofit organization dedicated to providing free dental care to those in need. The work is done by dentists and hygienists volunteering time and resources.

## Chrysler Orders Large Recall of 2010-2014 Cars

DETROIT (AP) – Fiat Chrysler Automobiles said Sept. 15 it's recalling more than 1.9 million vehicles worldwide because their air bags might not deploy in a crash.

The recall affects certain Chrysler, Dodge, Jeep and Lancia vehicles from the 2010-2014 model years. Most are in the U.S., but 224,860 were sold in Canada and Mexico and 284,051 were sold outside North America.

FCA says an airbag and seat-belt control module with a certain wiring design may not deploy the air bags or tighten the seat belts if the vehicle is involved in a frontal crash. That could increase the risk of injury.

FCA says it's aware of three deaths and five injuries that may be related to the issue.

FCA will contact owners and replace the defective parts for free. The vehicles involved are:

- 2010 Chrysler Sebring;
- 2010 Chrysler Cirrus;
- 2011-2014 Chrysler 200;
- 2010-2012 Dodge Caliber;
- 2010-2014 Dodge Avenger;
- 2010-2014 Jeep Patriot;
- 2010-2014 Jeep Compass;
- 2012-2013 Lancia Flavia.

The recall is unrelated to General Motors Co.'s recent recall of more than 4 million vehicles with faulty air bag and seat belt modules. In that recall, a software glitch, not a wiring problem, was the issue.

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The winning team, Integrity Tool & Mold Inc., throws all their weight into the final pull in charity competition.

## FCA Says, ‘Pull Your Weight for Charity’

The transport carrier was loaded with six Ram 1500 pickup trucks and the folks pulling the carrier were loaded with muscle.

The scene took place along the banks of the Detroit River in late September.

More than 375 competitors took to Riverside Drive in front of Fiat Chrysler Canada’s Windsor headquarters to participate in the fourth annual Ram Tough Truck Pull for United Way. The competition was sponsored by the FCA Foundation.

Participants rose to the challenge of hauling the Fiat Chrysler transport carrier loaded with pickup trucks weighing nearly 80,000 pounds, a distance of 100 feet in the shortest amount of time, said Fiat Chrysler spokesman Liam Price.

This year’s event comprised a record-high 25 different teams competing for the sought-after Guts and Glory Cup, up from the 18 teams that competed in 2015, Price said.

The 2016 Ram Tough Truck Pull championship team, “Integrity Tool & Mold Inc.,” took home the trophy with a com-

bined time of 56.90 minutes over three pulls.

The event raised a cumulative donation of nearly \$77,639 (and counting) to support the United Way/Centraide Windsor-Essex County as part of their annual fundraising campaign, Price said.

Since the Ram Tough Truck Pull’s inception in 2013, the event has generated more than \$181,000 toward local outreach programs.

The funds raised by the Ram Tough Truck Pull will help United Way in taking bold action against poverty across Windsor and Essex County. United Way projects include:

- Healthy and fresh food so kids and families don’t go hungry;
- Emergency Assistance to help people get through tough times when there’s nowhere else to turn;
- After-school programs to give kids a safe place to go and get homework help;
- Programs that help kids graduate through mentorship and support, and counseling programs that reduce stress for parents.

“To pay homage to our Ram trucks,” said Reid Bigland, president and CEO, FCA Canada, “we are proud to award the coveted Guts, Glory, Ram Cup to the winning team. This cup symbolizes the hard work, strength and teamwork that is needed to overcome obstacles.”

“This is our fourth year sponsoring the Ram Tough Truck Pull through the FCA Foundation. By underwriting the cost of the event for United Way, 100 percent of the funds collected are used to help those in need in Windsor-Essex.”

FCA Canada employees will also begin the annual internal United Way Fundraising Campaign in October, Price said. In 2015, more than \$1,176,000 was donated by employees and retirees in Windsor-Essex County – the largest amount in the region.

## ‘Brexit’ Auto Issues Abound

PARIS (AP) – This should be a fine time for British carmakers, with sales on the rise, but for one major storm front – the impossible-to-predict ramifications of the country’s vote to leave the European Union.

As British industry leaders showed off their wares Sept. 28 beneath the Eiffel Tower ahead of the Paris Motor Show, Britain’s EU exit remains a vexing concern because it’s not clear how the complex and highly globalized auto trade will be affected.

“Being part of the single market is fundamental to the current strength we’re enjoying,” said Mark Hawes, head of Britain’s Society of Motor Manufacturers & Traders. “Our biggest concern is

about competitiveness of the sector.”

The British automotive industry has attracted record investment in recent years, including more than 3 billion pounds in 2015, he said next to a stand of the latest models of Jaguar, Aston Martin and other U.K.-made cars. But the growth “could be jeopardized because of that uncertainty,” and if Britain’s departure from the EU single market results in high tariffs or too much new regulation.

Most expect “Brexit” to be disruptive, and to raise costs for companies, but the hard talk negotiations between Britain and the EU on issues of tariffs and labor could take years to resolve.

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# Is Premium Gas Worth It?

DETROIT (AP) – There is no sense paying a premium for premium gasoline if your car is designed to run on regular, according to research by the automobile club AAA.

Some drivers occasionally like to treat their cars to higher-octane fuel in the belief it boosts performance. But premium blends can cost around 50 cents a gallon more than regular.

AAA says it's just money out the tailpipe – lots of it. In a national survey on gasoline use, AAA said 16.5 million U.S. drivers spent \$2.1 billion they didn't need to in the past year on premium gasoline.

Many think premium means quality. But AAA researchers found that while it has more octane, it didn't increase horsepower or fuel economy, decrease emissions or clean engines any better than regular gas in cars that are designed by the manufacturer to run on 87-octane regular.

"Drivers see the 'premium' name at the pump and may assume the fuel is better for their vehicle," said John Nielsen, AAA's managing director of automotive engineering.

However, if your owner's manual specifically says to run your car on 93 octane premium or 89 octane mid-grade gas, you should do it to make it perform optimally, according to the researchers. More luxury and performance brands are using turbocharging or supercharging to get better performance out of smaller engines, and those may require premium gas, Nielsen said.

AAA researchers joined with the Automobile Club of Southern California to test V8, V6 and four-cylinder engines, coming up with the same results each time, Nielsen said.

Seventy percent of U.S. drivers own vehicles that require regular

gas, while 16 percent are required to use premium fuel. The rest, about 14 percent, must use at least mid-grade gas or have an alternative fuel such as electricity, AAA says.

People also waste money on gasoline in another key way, according to AAA. Earlier this year, the association studied fuel quality at a number of gas stations to see if some were better than others.

Researchers found that brands that meet the industry's "Top Tier" standards had better additives that prevented ash deposits on valves and cleaned engines better than non-Top Tier brands. And the Top Tier gasoline usually costs about the same as other brands, the association said.

Researchers found that ash deposits could cause cars to hesitate, run rough and make the engines run less efficiently, Nielsen said.

Generally, the major brands meet the Top Tier standards, including BP, Exxon, Mobil, Amoco and Shell. But lesser-known brands also are in there, such as Holiday, Costco and Kwik Star.

## Chrysler Granted State Incentives

LANSING, Mich. (AP) – Michigan is giving Fiat Chrysler nearly \$4.6 million in incentives to retool a suburban Detroit factory so it can make Ram pickup trucks as part of a plan to add 700 jobs.

The Michigan Strategic Fund approved the performance-based grant Sept. 27, saying the automaker could have built a new assembly plant or moved production to other existing plants. The incentive is part of Fiat Chrysler's previously announced investment in July of \$1.5 billion to retool its Sterling Heights Assembly Plant.

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