



GM's compact eBike, as opposed to its collapsible version (see page 3)

## It's Not Your Grandfather's Bike

They're talking about a brand new day for GM – creating a new brand to promote eBikes.

"Since committing to an all-electric future, General Motors is developing revolutionary, flexible electrification technologies that will enable our team to dream beyond the traditional vehicle and give our customers the freedom of movement that they seek," said Jennifer Cathcart, GM Marketing and Innovation manager for eBikes.

"Today, our team brought one of those dreams to life when we

revealed two innovative, integrated and connected eBikes – one folding and one compact – without a brand."

GM wants customers to be involved from the start, so the company is asking enthusiasts from around the globe to help name the eBike brand using [www.eBikeBrandChallenge.com](http://www.eBikeBrandChallenge.com). The deadline is Nov. 26.

The challenge participant responsible for the selected eBike brand name will receive \$10,000 and nine other participants responsible for runner-up

submissions will each receive \$1,000.

"We're going to launch the eBikes in the year 2019," Cathcart said. "We will present more details about the eBikes when we get closer to the launch date."

CONTINUED ON PAGE 3

## MCC Stages Event For the Love Of Your Pet

More than 500 animal lovers visited 40 informational booths and interacted with animals of all kinds at Macomb Community College's 15th annual People, Pets and Vets on Nov. 3.

Highlights included live spay and neuter surgeries and a teddy bear clinic where children could bring in injured stuffed animals for loving repair.

The event was sponsored by Macomb Community College and the Michigan Veterinary Medical Association, said Sean Patrick, manager of Media Relations at MCC.

The special event allowed those attending to interact with animals of all kinds including household pets, reptiles, exotic

## Cadillac Elevates New 2019 V-Series to a Pedestal

It's finally here. Details of Cadillac's 2019 Pedestal Edition ATS-V Coupe and CTS-V Super Sedan have been made available to the public.

The vehicle is designed to celebrate the successful first 15 years (2004-18) of its Cadillac V-Series sub brand, said Cadillac spokesman JL Lavina.

The limited-run models are also meant to bid a grand farewell to the third generation of ultra-high-performance V-Series models, and open the next major chapter in the sub-brand's story.

In total, 300 Pedestal Editions will be built for sale in the U.S., Canada, and the Middle East.

The special-edition variants are named in tribute to Cadillac V-Series' time spent at the pinnacle of luxury high-performance, said Lavina.

The Pedestal Edition of the Cadillac ATS-V Coupe and CTS-V Super Sedan features a commemorative application of an all-new exterior color – Bronze Sand Metallic, accented with Black Chrome trim and grille surround, V-Series forged light-alloy wheels in After Midnight finish over massive red Brembo brake calipers.

The Carbon Fiber Package, standard on every 2019 ATS-V,



2019 Cadillac Pedestal Edition of the CTS-V Super Sedan

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## UD Mercy Seeks to Shake Up Student Awareness of STEM

In what can only be described as earth-shaking news, the Michigan Science Center is created an exhibit about earthquakes designed by University of Detroit Mercy students.

The entire exhibit is the result of a collaboration between University of Detroit Mercy, Ford Motor Company Fund (Ford Fund), Detroit Cristo Rey High School and the Michigan Science Center.

The exhibit explores the science behind earthquakes through a table exhibit especially designed by Detroit Mercy dual enrollment students from Cristo Rey. Engineering students and faculty worked together with educators

at the Michigan Science Center, which is located in Detroit next to the Detroit Institute of Arts.

They all got together to develop the concept, said Dave Pemberton, spokesman for University of Detroit Mercy, and later the prototype for this interactive display.

The project was made possible by a grant from the Ford Fund's Ford Community Corp. (FCC).

Through a partnership with Detroit Mercy's Institute for Leadership & Service, FCC aims to support faculty and students who are interested in developing a service-learning project to meet the needs of a nonprofit organization or target population in the metro Detroit area.

"I'm very thankful Ford Fund gives us the support to do projects like this because it's a great opportunity," said Detroit Mercy graduate Nynke Van Der Goot, who was one of the lead Engineering students on the project. "All the students involved in the project learned a lot. For me, it gave me real-world experience. It's also great that we can make a difference in the community."

Van Der Goot and Detroit Mercy student Jonathon Mittelstaedt created the proposal to develop a project for the Michigan Science Center. Once the proposal was approved, Van Der Goot and

CONTINUED ON PAGE 2



Van Der Goot, left, discusses earthquake machine with Byrd.

## Baby's Loss is Cancer Research's Gain

Sometimes it's just nice to be able to help. In summer 2006, Dr. Jim Osborn and his wife Amy Jo welcomed their newborn son, Austin (middle name Hatcher), into the world. Within weeks, their bright, cuddly baby boy began to show signs of an illness, and days later, they would learn he had inoperable brain cancer.

Just two weeks later, young "Hatch" died. Devastated, the couple decided to honor their son by helping other parents of children stricken with cancer – and through their loss, the Austin Hatcher Foundation for Pediatric Cancer was born.

The Osborns registered the charity the following December with the mission to help raise awareness of pediatric cancer and to provide support for families struggling to cope with its effects and treatment. Leveraging Jim Osborn's experience as an

orthopedic surgeon guided them to a holistic approach to supporting cancer survivors – healthy lifestyle education, psycho-oncology and diversionary therapy coupled with industrial

arts as a form of reparative therapy.

As longtime motorsports enthusiasts, the Osborns turned to

CONTINUED ON PAGE 4



Ford donated a 2019 Explorer to the Austin Hatcher Foundation.

## Volvo to Focus on Design, Technology, Electrification

by Jim Stickford

Volvo is transforming. Those were the words spoken by Anders Gustafsson, senior vice president of the Americas and president and CEO of Volvo Car USA at the Automotive Press Association gathering Nov. 8.

Speaking at the Gem Theater in Detroit about the future of the Volvo brand in the United States, he said, "We are known for the safety of our vehicles, but we are now focusing on design, technology and electrification."

He told reporters at the Nov. 8 gathering that the great thing about the United States is that it's not really so much a country as a continent when it comes to Volvo developing a brand strategy.



Gustafsson

That was important to consider because Volvo used to be a Eu-

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Author Visiting  
Warren Library

Author Susan Whittall is coming to the Civic Center branch of the Warren Library on Thursday, Nov. 15, at 6 p.m. to talk about her book, “Joni on Joni: Interviews and Encounters with Joni Mitchell.”

Books will be available for purchase and signing, said Warren librarian Paul Konkolesky.

Space is limited so those interested in attending should call 586-574-4564 to reserve a spot, said Konkolesky.

GM Honors Nation’s Veterans at Tech Center Ceremony

Several hundred GM employees attended a special Veterans Day event honoring our nation’s military at the VEC building.

The Nov. 8 gathering began with the presentation of the colors. The color guard from the nearby U.S. Army TACOM command posted the colors.

This was followed by a talk from Steve Hill, GM vice president of U.S. Sales, Service and Marketing.

GM spokeswoman Jasmin Saleh said that he is also the executive champion for the GM Veterans Employees Resource Group.

Hill spoke about the three pillars of veterans’ needs – job, vehicle and home. He then shared information about how GM helps veterans by means of the annual gala that supports the Stephen Siller Foundation.

The money raised to help the foundation goes toward the construction of “smart” homes, Hill said.

These homes are designed around the needs of veterans who have had limbs amputated. Hill then talked about GM’s Military Discount Program and the company’s Hiring Heroes initiative.

Combined these efforts and programs help veterans meet the pillars of their needs, Hill said.

In addition to Hill’s speech, a \$1,500 check was presented to the GM Vets Returning Home initiative by David Small, UAW president of Local 160; Tony Churchill, UAW Local 160 Veterans Committee chairman; Steve Rawa, financial Veterans Committee chairman at Local 160; and Shannon McClintock, a designer and member of GM’s Veterans Affinity Group at the Tech Center.

Pablo Estrada, Jr., a brigadier general for the Michigan National Guard as well as a senior manufacturing engineer, spoke about



Hill spoke of GM’s efforts to help create “smart” homes for amputees.

the guard and its missions around the world.

He was followed by Keith Natrass, head of GM Military and Veterans Affairs, who spoke about the company’s support of

the military and its history of military defense over the past 100 years, including reinventing mobility on the battle field with new technology (fuel cell) GM products.

Ford Works With Students to Develop Earthquake Device

CONTINUED FROM PAGE 1

Mittelstaedt, along with Detroit Mercy Associate Professor of Mechanical Engineering Nassif

Rayess, taught a class with dual enrollment students from Detroit Cristo Rey, who were tasked with creating an idea for the project.

Dual enrollment is a special program at Detroit Mercy, which allows high school students to take classes at the university for college credit.

The students toured the Michigan Science Center and developed several different ideas before settling on the Earthquake Table, Pemberton said. Soon after, Van Der Goot, Mittelstaedt and Professor of Mechanical Engineering Jonathan Weaver built the prototype, which was recently tested at the Michigan Science Center.

“It’s amazing,” said Van Der Goot, who graduated in May and now works as a product engineer at The Woodbridge Group.

“When we started, it was just an idea, a very vague idea, but I really wanted to see a new exhibit in the Science Center.

“Now the prototype is here

and it’s really a feeling of accomplishment.”

The Earthquake Table allows Science Center guests to create structures and then test how they would hold up to simulated earthquakes. Guests can learn different techniques used in modern buildings to ensure their structures are sound.

“Users learn how to build a stable structure so it doesn’t shake as much,” Van Der Goot said. “For example, if you use triangles, you can build a more stable structure than just having squares. It gets people interested in earthquakes and maybe the science behind earthquakes.”

The project is in its final stages after being tested by Science Center patrons, with plans for it to become a permanent exhibit.

“I think they came up with a really great design,” said Cassie Byrd, chief learning officer at the Michigan Science Center. “The nice thing about the exhibit is its simplicity. It’s gotten us excited about how we might incorporate

more community-built exhibits into our galleries.”

Van Der Goot said the dual enrollment students really enjoyed the class, and she’s hopeful it will encourage them to pursue a career as an engineer.

“Sometimes high school students think engineering is all math,” Van Der Goot said. “I thought maybe it will be cool for the students to do something that’s more real life, then maybe they’d get more interested in engineering. It can motivate them to think, ‘Oh, engineering is fun. There’s a lot of cool stuff that goes into engineering.’ Because there are not enough engineers in the world right now.”

For more information on the Ford Community Corp., visit <https://www.udmercy.edu/about/mission-vision/lead-serve/ford-community-corps.php>.

For more information on Detroit Mercy’s engineering program visit <https://eng-sci.udmercy.edu/academics/engineering/index.php>.

Tesla Names New  
Head of Board

BANGKOK (AP) – Tesla said Nov. 8 that its new board chair replacing Elon Musk will be a technology and automotive industry veteran, Robyn Denholm of Australia’s Telstra.

The appointment to the full-time position takes effect immediately though Denholm will leave Telstra, Australia’s biggest telecoms company, after a six-month notice period, Tesla said.

An Australian, Denholm is Telstra’s chief financial officer and head of strategy and already has served on Tesla’s board as an independent director. She has worked at Sun Microsystems and held finance management posts at Toyota in Australia.

“I believe in this company. I believe in its mission and I look forward to helping Elon and the Tesla team achieve sustainable profitability and drive long-term shareholder value,” Denholm said in a statement.

Musk agreed to vacate his post as board chairman as part of a settlement with U.S. regulators of a lawsuit alleging he duped investors with misleading statements about a proposed buyout of the company.

The settlement with the Securities and Exchange Commission allowed Musk to remain CEO of Tesla but required him to relinquish his role as chairman for at least three years.

Musk cited Denholm’s long experience in the tech and auto industries as strong advantages and said in a statement that he looked forward to working with her.

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## Macomb County Aids Local Retailers During Holidays

The holiday shopping season is here and Macomb County is working to help local retail businesses serve their customers in an effort to support independently owned and operated retailers this season.

To that end, the Macomb County Department of Planning and Economic Development (MCPED) is partnering with First State Bank and the Sterling Heights Regional and Macomb County chambers to launch the Shop Local Macomb campaign.

This is the second year of the campaign, which encourages holiday shopping at small businesses in Macomb County, said John Paul Rea, director of MCPED.

"Shopping local is one of the easiest things we can do to support our independently owned businesses," said Rea. "These retailers help us build vibrant cities and towns by attracting visitors and new residents. Which means that spending money at these businesses during the holiday season has an impact far beyond sales figures."

Shop Local Macomb and its corresponding social media competition will officially launch on Nov. 23.

Rea said that in the interim, campaign organizers are asking independently owned and operated retail businesses in Macomb County to submit their

Shop Local Saturday (Nov. 25) deals and other holiday discounts to a digital portal here: <http://bit.ly/ShopLocalMacomb>.

There is no charge to submit and all information collected will be promoted on MakeMacombY-ourHome.com and a variety of other mediums.

Anecdotally, businesses that participated in this manner last year saw an increase in foot traffic on that Saturday, Rea said.

"We heard from many businesses after the Shop Local Saturday event last year, and those that had the extra promotion through our outlets experienced a greater number of shoppers than they had in years prior," said Melanie Davis, president of the Sterling Heights Regional Chamber of Commerce. "So submitting your deals and discounts is an easy and free way to spread the word about your business and get new customers."

These efforts are part of larger efforts by Macomb County to help local businesses and keep money made in the county stay in the county, Rea said.

Businesses interested in sharing their holiday deals through the online portal are asked to do so by Friday, Nov. 16, Rea said.

Additional information regarding the Shop Local Macomb campaign and its social media competition will be announced shortly.

## This Is Not Your Grandfather's Bike

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Cathcart said the eBikes were designed by GM engineers at the Tech Center in Warren. While they have experience designing drivetrains and electric systems, they are used to doing that for automobiles and not eBikes.

"It's a heck of lot simpler to design an eBike," Cathcart said. "There are a lot fewer moving pieces that need to go together. They may be simpler, but look at the eBikes that were designed. One is foldable and one is compact. They are innovative and have many safety features. We'll release more details in 2019. But I will say that we will take the eBike to the next level."

GM has many iconic brands, Cathcart said. And GM wants its eBikes to have their own "iconic" brand voice. And one way to help make that happen is to get its buyers engaged in the brand right off the bat.

"We want to tap into the creativity of our new customers," Cathcart said. "And I must say we've been astounded by the number of people who have submitted ideas on the brand's new name. We have had a lot of engagement with the public."

"As an avid cyclist and urban commuter, I know how great it feels to get where I'm going easily and to show up sweat-free," said Hannah Parish, director of General Motors Urban Mobility Solutions. "We blended electrification engineering know-how, de-



One version of GM's new eBike is foldable for easy storage.

sign talents and automotive-grade testing with great minds from the bike industry to create our eBikes. Now we want to expand our thinking beyond the company walls and hear from people who like to move and have rad ideas."

Here's what GM is looking for, Cathcart said. Simple, smart and bold concepts capable of bringing the eBike brand to life and fun ideas capable of being understood around the world. People who enter name ideas should explain why that name is a good one in about 100 to 150 words.

"This is part of GM's larger vision for the future – a future with zero crashes, zero emissions and zero congestion," Cathcart said. "We are solving transportation needs. In this case we've come

up with two eBikes that are truly innovative and are designed to be an answer to hardship for people who live in cities."

GM will announce the winners in early 2019. Details are available at [eBikeBrandChallenge.com](http://eBikeBrandChallenge.com).

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# Loss of Baby is Gain for Cancer Research

CONTINUED FROM PAGE 1

to their friends at SEMA and the racing community to help them create the Hatcher Foundation's Education Advancement Center. The group includes professional therapists, arts and crafts programs, and an automotive program, where kids can take part in building custom show cars.

This past summer Ford donated a brand-new 2019 Ford Explorer Sport to the Austin Hatcher Foundation for the kids to customize into an eye-catching show vehicle, Sherwood said. The high-performance Explorer was part of the Ford display at this year's SEMA show in Las Vegas.

"We merged motorsports with therapy in an effort to make recovery fun and not sterile," said Jim. "There's a lot of science and amazing technology in both the recovery therapy and motorsports industries, so with a little adaptation, they work very well together to improve recovery and long-term quality of life."

"Some kids got to work on the upholstery, some on the racks and some on the lights," said Johnathan Myren, Austin Hatcher Foundation's Industrial Arts Director. "It serves as a diversion from the things they're going through, and we see progress in terms of their cognitive function and fine motor skills."



Ford donated a 2019 Explorer to the Austin Hatcher Foundation.

"One of the things that happens to kids undergoing chemo or radiation therapy is they lose dexterity, so they need occupational therapy to help restructure their sensing," said Jim. "Diversionary therapy is exactly what it sounds like. It gives you something fun to distract you from the things going on."

A number of aftermarket suppliers donated parts and services for the build, including BF-Goodrich, Yakima, RIGID lights, Paragon Wheels, Borla Exhaust, Hypertech, Traxda and Wizards Products, Sherwood said. Wastegate Technologies and Wrap Artists created and in-

stalled the custom wrap, with Top Notch Customs LLC and Fully Loaded Interiors providing powder coating and custom leather interior.

"I have to thank Ford Motor Company for allowing us to participate in this project," said Jim. "It's been awesome to see the kids working on this, and to hear the excitement in their voices when they finally got to see the finished product."

After SEMA, the Hatcher Foundation plans to use the Explorer to support its Healthy Lifestyles program and later will auction it off to help fund survivor support programs.

# Volvo to Focus on Design, Technology, Electrification

CONTINUED FROM PAGE 1

ropean automaker but is now owned by the Chinese, run by Swedes and has just completed a large manufacturing plant just outside of Charleston, S.C.

Volvo had previously announced that the company will have electric powertrains for all of its vehicles by the year 2020. While the internal combustion engine will not totally disappear, the company is focusing its efforts on EVs.

And for that to work, Volvo must pay attention to the residual values of EVs, Gustaffson said.

These types of vehicles haven't done well on the used-car side of the equation.

It's vitally important that Volvo's new vehicles, especially the ones that are EVs, keep their residual value.

The company is growing in the U.S. The recently-reported October sales showed that 2018 numbers were 26 percent up from 2017. But Volvo still has only about 1 percent of the U.S. market.

Gustaffson said Volvo's success in the auto industry is determined by residual values and that "you can't pay the bills" just by trying to grow market share, but rather by coming up with new ways for consumers to use Volvo vehicles.

That's why the brand has launched its "Care by Volvo" subscription service, Gustaffson said. Now people interested in Volvos can buy a car, lease one or use Care by Volvo's subscription service.

Care by Volvo differs from leasing in that customers don't have to negotiate a price.

Subscription prices are the same across the country, and thanks to Volvo's concierge service, consumers don't have to make a down payment. They just pay one monthly fee – that includes premium insurance no matter where a person lives – maintenance and excess wear coverage.

They can upgrade to a new Volvo in as little as 12 months – and they have a 15,000-mile allowance per year.

The service can be signed up via a smart phone app.

This program helps Volvo because cars that come back at the end of their subscription contracts can go through the company's resale infrastructure. This helps with residual prices and makes sure there's a market for Volvo EVs.

"Subscription service is about loyalty," Gustaffson said. "Our dream is that 'Care for Volvo' is launched for the used-car side of retail sales as well as for the new-car side. So when a car is returned, it can be used again. That helps with residual prices and makes Volvos more valuable."

When asked about the effect tariffs might have on Volvo, and how a new Congress would affect the company, he said that the company will "do what it has to do" but that given its worldwide reach, and the fact that they will be making cars in South Carolina, he wasn't too worried.

"We can handle tariffs," Gustaffson said. "But all OEMs, including those here in your lovely city and in Europe and Asia, will be affected. I think that things will be handled using common sense."

"As to the new Congress, I can only run the company based on what I know today. So it's too early to tell how a new Congress will affect things."

Gustaffson said it was important that Volvo hire the best workers (for the Charleston plant) it can find and that the company's inclusive work culture would be very attractive to prospective employees.

He said that Volvo has set a "university" where Volvo retailers and prospective employees can be educated in the corporate culture and obtain the skills they need to make Volvo a vibrant brand in the U.S.

Gustaffson said Volvo has always been a safety leader and being number one means that others try to surpass you.

But that competition has always fueled Volvo's efforts and that all new technology, he said, whether AV or EV will be created around the concept of safety being built into every design.

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# Cadillac Honors the History of the V-Series

CONTINUED FROM PAGE 1

is also featured in the Pedestal Edition list of content for the CTS-V super sedan.

The interior of the Pedestal Edition features the racing-derived and fully-integrated Performance Data Recorder video-data system with COSWORTH Toolbox driver analysis software, the Rear Camera Mirror (CTS-V only) and the next-generation Cadillac user experience infotainment system.

Since 2004, the V-Series sub brand has developed and proven Cadillac's performance credentials on both the street and race track, said Lavina. Key moments include in 2004 the first-ever CTS-V sedan adding a new formula for high-performance to the Cadillac catalog, putting the world on notice that the then-102-year-old luxury brand would serve enthusiastic drivers through authentic engineering and design, Lavina said.

2004 also saw the first-ever CTS-V securing the V-Series' first racing victory in the Speed World Challenge sprint racing series at Sebring International Raceway.

In 2008, the new, second-generation CTS-V with 556hp set a then-record lap time for sedans of 7:59.32 on the famous Nürburgring Nordschleife race track in Germany.

In 2012, after making its debut in 2011 as the CTS-V.R Coupe race car, Cadillac won four races in the Pirelli World Challenge (PWC) series and was able to se-



The Pedestal Edition features the latest in infotainment technology.

cure both the Driver and Manufacturer Championships.

In 2015, the third-generation Cadillac V-Series models debuted with a surprise: the ATS-V arrived as a Coupe and Sedan with the first-ever V-Series V6 powerplant: the LF4 Twin Turbo V6 engine with 464 horsepower, providing better all-around performance than the second-generation CTS-V and a top track speed of 189mph.

Meanwhile, the third-generation CTS-V raised the bar, said Lavina, in its own category with a new design as well as lightweight architecture, and a "staggering" 640 horsepower engine.

Looking to the next chapter of growth and development for the V-Series, 2019 will see Cadillac release the first-ever Cadillac CT6-V super sedan.

The CT6-V is the largest V-Series model to date and possesses a Cadillac-estimated 550 horsepower, thanks to its all-new Cadillac Blackwing Twin Turbo V8 engine, and spectacular traction, said Lavina, as the first-ever V-Series model with all-wheel drive.

Complimenting the all-wheel-drive system are all-wheel steering and a limited slip differential.

Ordering for the 2019 Cadillac V-Series Pedestal Edition began the first week of November, with production commencing later this month.

MSRP pricing for the 2019 ATS-V Coupe Pedestal Edition starts at \$77,090, and \$102,590 for the 2019 CTS-V Pedestal Edition, Lavina said.

Both prices include destination freight charges but exclude tax, title, license and dealer fees.



Aiden Anderson fed a goat at MCC's 15th annual People, Pets & Vets.

# MCC Uses Hands-On Way to Promote Veterinary Classes

CONTINUED FROM PAGE 1

birds and large animals. The free event featured more than 50 information booths offering a wide variety of information on animal care and disease prevention in addition to information on veterinary careers.

Attendees got to learn about animal behavior, child safety, pet first aid, puppy socialization, pet home hospice, common pet toxins, animal eye care and emergency care as well as alternative treatments – in-

cluding acupuncture and herbal remedies.

Representatives were on hand from local animal rescue groups and Leader Dogs for the Blind. Also available was information on miniature pony rescue, therapeutic horseback riding and veterinary rehabilitation therapy.

Accredited by the American Veterinary Medical Association and the American Animal Hospital Association, Macomb's associate degree program teaches students about animal handling, restraint and conducting examinations.

# BMW Sees 3Q Profits Decline by 24 Percent

by DAVID McHUGH  
AP Business Writer

FRANKFURT, Germany (AP) – Germany luxury automaker BMW said Nov.7 that its net profit fell 24 percent in the third quarter.

The company spent more on new technology and faced market disruptions due to other companies failing to get vehicles certified in time for new European Union emissions tests.

Net profit fell to 1.40 billion euros (\$1.6 billion) from 1.84 billion euros in the year-ago quarter.

The figure was short of the 1.61 billion euros foreseen by analysts surveyed by financial information provider FactSet. Revenues rose 4.7 percent to 24.74 billion euros.

The Munich-based automaker said it was increasing its investment in the new technologies such as autonomous and electric cars that are expected to transform the industry in coming years.

Research and development expenses in the first nine months of the year rose by 400 million euros to 3.8 billion, and are due to total 7 percent of sales for the year.

BMW managed to get its cars certified under tougher new emissions tests, but Daimler and Volkswagen both had to sell off uncertified vehicles ahead of the Sept. 1 deadline, leading to pressure on prices.

The company also faced headwinds from warranty actions and trade tensions. It had 679 million euros in charges for recalls and service actions, dominated by the recall of 1.6 million vehicles in Europe and Asia to fix an emissions control component that can cause the vehicle to catch fire.

New Chinese import taxes on cars, imposed in retaliation to new U.S. tariffs on Chinese goods, also hit BMW because it makes cars in the U.S. and exports them to China.

The company's single largest plant is in Spartanburg, S.C.

BMW said the tariff conflict had undermined consumer confidence.

The profit margin on sales, a key earnings metric, fell sharply to 4.4 percent from 8.6 percent for the automotive business. BMW also makes motorcycles and has a financial services business.

"Our forward-looking approach has absolute priority,"

said CEO Harald Krueger, as the company spends to expand in electric vehicles and autonomous driving as well as offering transportation as a service that doesn't involve owning a car.

The company has agreed to form a joint venture with Daimler combining the two companies' efforts in smartphone apps for taxis, parking locator services and car sharing.

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While electric cars seem like a recent development, early auto pioneers experimented with

With electric vehicles in the rear-view mirror and all but forgotten, the rare 1899 Olds electric was uncovered in a Lansing

Seven people have pleaded guilty in the federal probe, including Fiat Chrysler's former senior labor negotiator. The indictment alleged there was a conspiracy between some company officials and senior members of the union to use money from a training center for travel, clothes, booze and other luxuries. The union's FCA negotiator, General Holiefield, died in 2015.

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