Tech Center News...

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MAY 11, 2015

New Job Sets Will Determine GM's Future

No one truly knows what the gy developers. future will bring, but that doesn't mean you shouldn't try to plan ahead.

As smartphones get more sophisticated, watches connect us to the world and our homes grow more automated, cars will advance in ways customers cannot imagine. Already, said GM spokeswoman Rebecca White, people are developing and bringing products to the mainstream that the public doesn't even know it wants.

So the question becomes, White said, "what will be the jobs that bring the technology that improves our lives to market?"

"In the automotive industry we have the opportunity to make our technologies impact real change," said Gary Smyth, executive director, global research and development at General Motors. "Not many other industries can embrace the future so holistically: We have battery chemists, electrical engineers, manufacturing experts, software developers and social media operators all in one industry, working at making our lives easier and more productive."

Ten years from now, Smyth said, the workplace may depend less on location than connectivity, such as eco-friendly workstations that offer collaborative environments catering to technolo-

GM employees of various experience levels and backgrounds see these as the Top 10 jobs of 2025, Smyth said.

• Electrical engineers – Battery, hybrid and plug-in vehicles are becoming mainstream. The internal combustion engine isn't going anywhere soon, but the industry is developing alternative ways to make a car move. Electrified vehicles are more powerful and achieve greater range, and as more customers try these alternatives, demand can only be expected to grow. Over the next 10 years, more engineers will be needed to explore and develop

electrified vehicles.

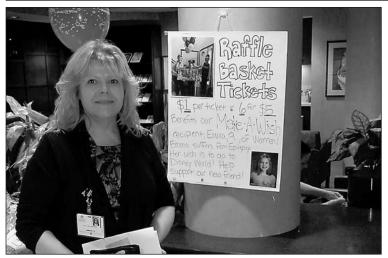
• Analytics expert - Data is everywhere and can help diagnose what in a car needs attention before it becomes a problem and help pick the best route to a destination. With smart data, the car and the driver will work together for a more efficient future. Analysts will be needed to create algorithms to decipher how this data can best help drivers.

• Interaction designers - Operating all the technology in the car needs to be designed with an artistry that makes it easy to use. A driver can be going 60 mph on

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GM is making the future happen right now.



Kimberly Ellis helped raise money for a Make-A-Wish patient.

St. John Macomb Raises \$10,000 for 'Make-A-Wish'

by Jim Stickford

Talk about going above and beyond the call of duty. The nurses at St. John Macomb – Oakland in Warren have raised more than \$10.000 for Make-A-Wish Michigan, allowing two sick children to have the experience of a lifetime.

For the third year in a row, St. John Macomb-Oakland Hospital's Professional Nurse Practice Council (PNPC) partnered with various hospital departments to

raise money for a worthy cause, said Kimberly Ellis, Health Unit Coordinator at St. John Macomb.

The first year, PNPC raised money to fight Lupus. Last year and this year, they raised money for the Make-A-Wish foundation.

"This is our 3rd year doing this," Ellis said. "Last year, PNPC members chose Make-A-Wish and because of that success and the gratitude that was felt by all

CONTINUED ON PAGE 2



The press gets a look at the first Shelby GT350 model in 45 years.



Dave Pericak points out the GT350's two-piece cross-drilled

LTU, Johnson Controls Do **Battery Research, Testing**

with Lawrence Technological University (LTU) to test and develop advanced battery systems in vehicles aimed at helping automakers meet increasing fuel economy and emissions standards, said Johnson Controls spokeswoman Nicole Koremenos.

"The world's leading supplier of automotive batteries and one of the nation's top engineering schools will unveil the new Johnson Controls Vehicle Engineering Systems Lab, including a dynamometer, during a ceremony in the hub of America's auto industry on May 8," Koremenos

A dynamometer is used to test vehicles in different controlled driving environments and accelerates understanding of how best to manage battery energy and power transfer in the vehi-

"The work we are doing with LTU is important because we can develop, optimize and validate battery systems inside the complete vehicle environment to meet our customers' future needs," said MaryAnn Wright, vice president of engineering and product development for Johnson Controls Power Solutions. "Johnson Controls is constantly investing in its applied research and development capabilities to stay ahead of the evolving needs of the auto industry and to remain a global leader in the battery business.'

Wright said that Johnson Controls is a global multi-industrial company, and will use the lab to test its recently announced 12-

Johnson Controls is partnering volt Lithium-ion battery in its prototype Advanced Start-Stop vehicle.

The technology can improve fuel economy and emissions by up to 8 percent. The company's 48-volt Micro Hybrid system, which gets up to 15 percent fuel economy, is also part of the research and development with

The partnership, which began in 2014, Wright said, also focuses on developing the next generation of engineers by involving them in the research projects and teaming them with LTU faculty and Johnson Controls technical experts.

"These partnerships provide a strong talent pipeline for scientists and engineers interested in careers that will shape the way we drive our vehicles and use natural resources," Wright said.

"The partnership with Johnson Controls is part of a broader effort by Lawrence Tech to respond proactively with innovative academic research programs to the needs of our corporate partners and students," said Virinder Moudgil, president of Lawrence Technological Univer-

"We are helping these corporate partners develop marketbased solutions while providing students with real-world experiences and skills.'

Johnson Controls serves customers in more than 150 countries, Wright said.

In 2015, Wright said, Corporate Responsibility Magazine recognized Johnson Controls as the #14 company in its annual '100 Best Corporate Citizens' list.

Ford Mustang Shelby GT350 Returns; Set to Deliver with Power, Performance

by Jim Stickford

Ford's Performance Division is no joke. It makes money for the company and produces product that is both excellent and gets noticed by the car-driving public.

And Ford Performance's latest vehicle - a Ford Shelby GT350 Mustang – really delivers.

'We do believe in pushing the envelope," said Dave Pericak, director of Ford Performance. "It is something that we've always done and will continue to do. The new 350 will be made in Flat Rock and will go on sale this fall. Performance is part of the 350's DNA. This is the vehicle that jump started the pony wars of the late 1960s and has developed into the ultimate performance vehicle. When you take that vehi-

cle out on the track, when you really push the car, you will get to the point where you chicken out before the car reaches its limits. It's that powerful."

Jim Owens, Shelby marketing manager, said that the 350 has a storied history. It was first built in California in the late 1960s. The last California version was built in 1969. Then production moved to Michigan. The last Michigan 350 was built in 1970. He was glad to see that Ford was bringing the 350 back.

Eric Zinkosky, Vehicle Dynamics technical specialist for Ford, said that one "cool thing" about the development of the new Ford Shelby GT350 is that the company really came through in terms rotors and 380-millimeter rear roof resources.

"If I said I needed a better

brakes, then I got better brakes," Zinkosky said. "The real secret of making the car fast is the brakes.

Reducing unsprung mass is key to improving responsiveness, but a balance must be struck between taking mass out of a suspension and delivering truly capable braking performance, Zinkosky said.

The Shelby GT350 features the most track-credible brake system ever offered on a production Mustang, consisting of two-piece cross-drilled iron rotors with aluminum hats - the largest rotors Ford has ever put on a production Mustang.

Massive 394-millimeter front

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GM Employees Name Top 10 Jobs of Future

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the freeway and the information and technology within the car needs to be accessed intuitively so the driver can keep his hands on the wheel.

- Web programmer The car is not a smartphone or a tablet or whatever is going to come next, but it will be a platform that allows the next big thing to easily connect to the vehicle and its occupants. Software is playing an increasingly important role in the vehicle, and coders and developers are only going to be in more demand.
- · Autonomous driving engineer - GM envisions a world without crashes and a key step toward that direction is the introduction of vehicle-to-vehicle technology on the 2017 Cadillac CTS that allows the car to "talk" to other cars that are equipped with V2V technology. After that will come Super Cruise, a semiautonomous driving technology in the Cadillac CT6 range-topping luxury sedan. Within these fields there will be sensor experts, radar developers and all types of engineers needed to make these vehicles and those that follow them a reality.
- Customer care experts It's not just about cars being made by car people who deliver them to the masses. With social media, direct interaction with companies big and small is direct and near instantaneous. Social care experts provide the listening ear and resolution to problems that can help make customers for life.
- Sustainability integration expert - Proof points of a sustainable business model can be seen throughout GM. Already, the company has 122 plants and facilities that send no garbage to landfills. A variety of other environmentally friendly programs from using alternative energy sources like solar and wind - to just finding ways to use less of everything opens employment opportunities for people who understand the best ways to apply these goals to the business.
- Industrial engineer Vehicles are mass-produced products. The best companies discover and apply the most efficient production techniques. The future for this position will challenge engineers to build complex vehicles in ways that are sustainable and efficient.
- 3D Printing engineer The uses and capabilities of 3D printing in the development, design and engineering world are just beginning to be fully realized. A part mockup that once took weeks to create can now be printed in a matter of hours. Faster prototyping doesn't just save time; it can lead to more options to be tested and better end products.
- · Alternative propulsion engineer - Diesels, battery electrics, fuel cells. There is no single answer to the future of propulsion. Refining and developing new ways for cars to move will also drive job creation.

St. John Macomb Nurses Raise \$10,000 for 'Make-A-Wish'

CONTINUED FROM PAGE 1

in helping a child in need, we chose Make-A-Wish for this vear's donation too.'

To make the project a success and ensure the baskets were ready for display during the celebration of Nurses Week, the PN-PC members start in December, Ellis said.

"Our hospital team became engaged and supported the PNPC with the event by participating in putting together baskets from the different units in each hospital," Ellis said. "We were hopeful that we could raise the \$5,000 needed for the trip, and were pleasantly surprised to discover over \$10,643 was raised.

Ellis said that PNPC worked with the Make-A-Wish Michigan people, and that they chose the child whose wish would be granted.

"We wanted someone local," Ellis said. "The child they picked for us is named Emma. She is nine years old and two brother, Jacob and Matthew. Emma suffers from epilepsy.'

Ellis said that it is her under-

standing that Emma has multiple seizures every day and it is possible that one serious enough could cause death.

"I've been told that Emma loves the Disney princesses," Ellis said. "So, naturally, her wish is to go to Disney World and meet the Disney Princess Sophia the First.'

For those without young children, Ellis said, Sophia was a poor girl whose mother married the local king. This made her a new princess who enjoys all kinds of adventures and a completely new lifestyle as a newlyminted princess. The show in on the Disney Junior Channel.

"Anyone with young kids know the show," Ellis said. "Emma will go to Disney World, along with her mother and two brothers, on May 24. The kind people at Make-A-Wish even stopped by Emma's home to present her with her Disney kit, which contained, among other things, a set of Disney Princess dolls.'

Ellis said that the original goal was to raise \$5,000, and because they managed to double that figure, Make-A-Wish told them that

Emma receives her Disney Princess kit from Make-A-Wish.

wish come true.

"We just learned about this," Ellis said. "We don't have all the details yet, but we have found out that the child is from Sterling Heights."

Ellis said that the PNPC people at the hospital want to do anoth-

they can make another child's er project for next year, but haven't started the work yet.

> "We don't know what we're going to do next year," Ellis said. "We might do something for Make-A-Wish, but we might decide to raise money for another cause like Lupus, which we did in our first year. But that's in the future.'

Volvo Gives BorgWarner's Turbo Systems Top Ratings

BorgWarner was honored by Volvo Cars with an Award of Excellence in the category "Cost Competitiveness" during a ceremony held recently at Volvo Cars in Gothenburg, Sweden.

BorgWarner delivers a variety of leading turbocharging technologies to Volvo Cars, including regulated two-stage (R2S) systems for diesel engines and turbochargers with a modular design for gasoline engines, said BorgWarner spokeswoman Erika Nielsen. These leading technologies are engineered to improve fuel economy, reduce emissions and increase performance in numerous engines.

"We are very pleased to receive this prestigious award from Volvo Cars. It honors BorgWarner's collaboration with Volvo Cars and our primary objective to provide customers with lead-

• Fully Renovated

ing turbocharging technologies," said Frédéric Lissalde, general manager, BorgWarner Turbo Systems. "Our customers expect us to launch flawlessly and offer first-class quality as well as the best possible service at a competitive cost. At BorgWarner, we passionately pursue excellence, constantly optimizing our manufacturing standards and improving quality. I would like to thank our employees for their unmatched dedication.'

BorgWarner's R2S turbocharging technology for diesel engines combines two turbochargers of different sizes, Nielsen said. At low engine speeds, the entire exhaust gas flow is directed to the high-pressure bocharger, resulting in a quick rise in boost pressure.

At higher engine speeds, the wastegate valve opens, and the

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exhaust gas is redirected to the larger low-pressure turbocharg-By optimizing the full engine

speed range, the R2S turbocharging system helps improve fuel economy and reduce emissions while enhancing performance. The turbochargers for Volvo

Cars gasoline engine platform are fitted with a wastegate to prevent charge pressure at a very high engine power.

To provide a high degree of commonality between engine parts in a compact design, Borg-Warner engineers developed a sheet metal turbine housing with a virtually identical external geometry suitable for use in all



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GM Honors Vet as Part of 500M Celebration

That's a lot of cars. GM's made were notified that they were re- to give our customers a beautiful half-billion vehicles over 106 years, and that equals billions in commerce, payroll, investments and infrastructure in communities all over the world. For customers, these vehicles played roles in weddings, family vacations, graduations, new businesses and countless milestones along life's journey, said GM spokeswoman Katie McBride.

Globally, more than 500 million General Motors-branded vehicles have been built - the most of any automaker by far, McBride said, and the company is putting its customers at the center of the accomplishment.

GM CEO Mary Barra and GM North America and Global Chevrolet President Alan Batev celebrated the milestone May 4 with customers, employees and dealers at the Fairfax (Kansas) Assembly plant, and surprised Iraqi war veteran Trent Brining with a "key" to a 2016 Chevrolet Malibu. Production of the midsize sedan begins at the plant later this year.

Brining, a retired Army corporal and Purple Heart recipient, was seriously injured in 2005 after being struck by a rocket-propelled grenade while patrolling a suburb of Baghdad, and has undergone 23 surgeries to his arms and legs. The grandson of a Purple Heart recipient, McBride said Brining is one of five customers

ceiving a new, regionally built GM-branded vehicle.

Brining is from Overland Park. Kan. and his 2008 Chevrolet Silverado actually helped Brining meet his wife, Samantha, McBride said. He is now a financial relationship specialist for a local credit union; they have a 17month-old son.

Barra on May 4 also announced that in the third week of May, all U.S. GM salaried and represented employees and retirees can share a one-time Customer Appreciation Discount. The discount can be combined with other incentives.

"During 2015, we expect to sell more than 1,000 new vehicles per hour, 24 hours per day," said Barra. "This adds up to nearly 10 million vehicles, the most in our history. I look at this extraordinary volume as 10 million opportunities to prove what kind of company we are and to say thank you.

Batey, at the same time, announced GM will invest \$174 million in the Fairfax plant for new equipment and technology to support production of the 2016 Malibu and improve customer satisfaction. One enhancement a "Shake and Rattle" booth - simulates any road condition a customer might experience - and identifies sources of noise so they can be fixed.

"Every element of the 2016 who, within a two-day period, Chevrolet Malibu was designed

and high-quality sedan with technologies that will make their lives easier and safer," said Batey. "It will all come together here at Fairfax, and the men and women who work here can hardly wait to get started."

COVERS THE TECH CENTER AND THE IMMEDIATE AREA

In the week prior, GM announced it will invest \$5.4 billion over three years to build the next generations of future vehicles in the U.S., including \$783.5 million in three facilities in the state of Michigan and the \$174 million announced today.

Since June 2009, GM has announced U.S. facility investments of approximately \$16.8 billion. About \$11.4 billion of that has come since the 2011 UAW-GM National Agreement. In total, these investments have created 3,650 new jobs and secured the positions of approximately 20,700



GM CEO Mary Barra, center, receives tour of GM Fairfax Assembly.

announced facility investments totaling about \$36.7 billion. This \$12.7 billion in other global reincludes the U.S. facility invest- gions outside GM North America.

Globally since 2009, GM has ments plus \$5.75 billion in Mexico, \$1.5 billion in Canada and



MSU to Offer Home Seminar

MSU Extension is offering a tension (MSUE) brings educafree "Make Macomb Your Home, Homeownership Seminar" focusing on consumer protection during the home-buying process, aid county spokesperson Mickie Boczkowski.

Attendees will learn how to finance a home, decide between various types of loans, understand the closing process and much more. Research has shown that people who attend pre-purchase housing education are more likely to make on-time payments and are less likely to default on their loans.

This two-part session will be held from 6 p.m. to 9 p.m. on Wednesday, May 20 and 27 at the Warren Community Center, 5460 Arden, Warren. The class is free and open to the public. Registration is required. For more information or to register, call Mickie at 586-469-7614.

Michigan State University Ex-



tional programs to residents, empowering them to improve their lives and community, Boczkowski said. County-based MSUE staff, in concert with on-campus faculty members, offer programs focused on children, community and economic development.

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GM Fund Donates \$100,000 to Aid Nepal

In the wake of the 7.8 magnitude earthquake that struck Nepal, the General Motors Foundation is providing grants totaling \$100,000 to American Red Cross and World Food Program USA. Funds will aid emergency management officials with recovery relief efforts in the recently devastated region.

In addition, General Motors International will donate \$50,000 to the India Prime Minister Relief Fund, for relief efforts directly supporting Nepal's most immediate needs, said General Motors Foundation president Vivian Pickard.

"The sense of purpose to move quickly and answer the call to help when disaster strikes is embedded in General Motors and its Foundation," Pickard said. "We extend our condolences to the thousands of families and com-

munities impacted by this devastating earthquake.

"We hope that by partnering with these organizations we can do our part to help bring some measure of comfort during these difficult times."

GM has also set up global employee donation portals for those that wish to contribute funds to the Red Cross or World Food Program efforts, Pickard said.

Earlier this year, the GM Foundation committed \$50,000 to Habitat for Humanity's 2015 Jimmv & Rosalynn Carter Work Project, which is set to take place in the Majheri Patan community near Pokhara, Nepal in Novem-

Habitat for Humanity is committed to realigning the project to vital rebuilding needs in the country

Since 2004, the General Motors Foundation has provided approximately \$8.6 million to global disaster relief efforts.

Included in this amount is \$7.5 million in financial support to the Red Cross through the Disaster Responder Program to help communities prepare and respond in the event of emergency situa-

Additionally, General Motors employees across the country have donated hundreds of volunteer hours collecting and distributing emergency supplies and providing blood donations and funds where needed, Pickard

Anyone interested in providing support to the disaster relief efforts can visit www.redcross.org or www.wfp.org for more information on how one can help with relief efforts.



The New Ford Shelby 350GT Mustang hits the road this fall.

Shelby 350GT Returns With Power and Performance

CONTINUED FROM PAGE 1 another 1.9 pounds of weight.

tors are a floating-type and are pin-driven to the aluminum hats to greatly reduce heat transfer to the bearings. These rotors are clamped by six-piston fixed Brembo calipers with integrated caliper bridges at the front and four-piston units at the rear. Dedicated ducting assists in cooling the brakes front and rear for maximum performance.

"These cars can be driven by any driver on any track in the world - with virtually no fade," remarks Brent Clark, vehicle dynamics supervisor.

And as long as you're going to have new brakes, why not have new wheels and tires to help improve performance, Clark said.

Shelby GT350 makes use of extra-stiff 19.0-inch cast aluminumalloy wheels – 10.5 inches wide in front, 11.0 inches in the rear clad in Michelin Pilot Super Sport tires with GT350-specific sidewall construction, tread face and compound. The custom tires are designed to deliver maximum grip on the road or for weekend track days.

The Shelby GT350 raises the standard even further, Pericak said. It wears carbon fiber wheels, making Ford the first major automaker to introduce this innovative wheel technology. The hand-laid wheels are 19.0 inches in diameter – 11.0 inches wide at the front and 11.5 inches at the rear, each fitted with custom formulated Michelin Pilot Sport Cup 2 tires. Combined, these wheels eliminate approximately 50 pounds of unsprung weight compared to the aluminum-alloy wheels and Michelin Pilot Super Sport tires on Shelby GT350.

Handling is the performance playground of Shelby GT350, and the car's suspension is heavily revised to maximize cornering performance.

And adding to the performance of the GT350 is a newly-de- are on again," Pericak said. "And signed chassis, said Adam Wirth, Ford is partaking in all of that. Ford Chassis - Hydraulic Steering technician.

The new platform is the strongest in the history of the Mustang brand, with torsional stiffness increased 28 percent over the previous model, Wirth said. That stiff structure ensures the suspension geometry remains consistent even under the loading caused by hard driving. Shelby GT350 takes that philosophy further – with added bracing to increase overall stiffness.

A new lightweight aluminum tower brace connects the shock towers and firewall, and improves front end stiffness. When a lower hood was called for to improve aerodynamic performance. Ford Performance re-engineered the grille opening reinforcement with a carbon fiber composite structure that is 24 percent lighter than the base Mustang while maintaining the

stiffness of steel, Wirth said. It is finished so well a beauty cover is not needed – eliminating

The Shelby Mustang features all-new aluminum front knuckle, hub and bearing assemblies that are stiffer and lighter than the standard parts, Wirth said. Rigid bushings are fitted to the control arms and subframes for improved steering feedback. Heavyduty bearings are added for increased lateral stiffness. Front and rear antiroll bars are increased in diameter for improved body control. In an example of obsession to detail, one side of the rear suspension features a new counter-wound rear spring and matching rear control arm so the left and right sides are mirror images - perfecting

wheel motion. The star of the Shelby GT350 suspension is the first-ever Ford application of continuously variable MagneRide dampers, Wirth said. The dampers are filled with a hydraulic fluid impregnated with iron particles. When an electric current is passed through the fluid, near-instantaneous adjustment of the suspension performance can be made. With wheel position sensors monitoring motion thousands of times per second combined with other vehicle data, changes can be made to each corner every 7 milliseconds for optimum handling performance.

Tireless calibration and tuning has resulted in an integrated driver control software which monitors wheel position, steering angle, damper temperature, signal quality, vehicle position and much more. This advanced software rides on top of the car's drive modes and provides a degree of suspension performance never before seen in a production Mustang. This system is not just designed to make the car handle better, but to instill greater confidence in even the best driver, Wirth said.

"The horsepower wars between the Detroit automakers But at the end of the day, the winner is the consumer. We make each other better."

"When we started working on this car, we wanted to build the best possible Mustang for the places we most love to drive challenging back roads with a variety of corners and elevation changes, and at the track on weekends," said Raj Nair, Ford group vice president, Global Product Development. "Every change we made to this car was driven by the functional requirements of a powerful, responsive powerplant, nimble, precise handling and huge stopping power."

The big question, Pericak said,

is "where do we go from here?" "We can all do horsepower," Pericak said. "The key to getting the most out of your car is performance. Is the vehicle able to take all that power and harness it so it can be used by the driver. That's what we went for – usable performance. And I think the GT350 delivers that in spades."





Continental: Electric Autos Have Public Image Problem

"green" image among drivers in the U.S., but so far they barely evoke any emotions, and this is a problem when trying to get the public to accept and even purchase these vehicles.

At least that is what a recent Continental Mobility study concludes, said Continental spokeswoman Mary Arraf.

The company's study states that a clear majority of respondents see fully electric-driven vehicles as environmentally friendly (71 percent), Arraf said.

But the perception of image factors that play a key role in the purchase decision is low, such as driving pleasure (31 percent), attractive design (38 percent), and sportiness (27 percent).

In addition to the higher purchase price compared to conventional vehicles, the unbalanced image dampens drivers' expectations as to when they will actually purchase such a vehicle.

For the Mobility Study, the international automotive supplier Continental had the market and social research institute infas conduct a representative survey of drivers in the U.S. and Germany, and a qualitative survey in France, Japan, and China, Arraf

The Mobility Study was also supported by interviews with experts in the automotive industry and supplemental research.

Compared to the 2011 Continental Mobility Study, significantly fewer drivers in all age groups expect to use a fully electric car in the medium term (four to 10 years), Arraf said.

The expectation figures fell from 33 percent to 24 percent among those 16 to 30 years old, and from 31 percent to 21 per-

Electric cars have a special cent among those 31 to 59 years old.

The reluctant attitude amongst drivers 60 and over - of all the groups, a population segment featuring an affinity for cars as well as high-purchasing power decreased from 46 percent to 21

At the same time, there was a strong increase over the past three years in the number of drivers in all age groups who would switch to an electric car only if vehicles with internal combustion engines were no longer available (16 to 30 years old: from 2 percent to 12 percent; 31 to 59 years old: from 1 percent to 14 percent).

The increase has been particularly strong in the group of 60 vears and older (from 2 percent to 26 percent).

"After several booming years, the purely electric car is currently facing image problems," said Jose Avila, Continental executive board member and head of the Powertrain division, commenting on the findings of the study.

However, with hybridization the combination of ultra-modern combustion engines with electric motors - he sees a solution.

"Increasing hybridization, including 48-Volt technology, will clear the way for electromobility," Avila said.

allows a reasonable cost/benefit ratio and gives drivers their first experience with electromobility.'

The degree of electrification should be aligned to the car and the driving profile, Arraf said. With innovative solutions Continental is making future powertrain systems environmentally friendly and affordable, all under the motto "Clean Power."





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This Weeks SPECIALS!

2015 **EQUINOX** "LT"

• 2 Yr/24,000 Scheduled Maintenance INCLUDED! • 2.4L DOHC Engine! • 7" Color Touch Screen MvLink Radio!

• Remote Vehicle Entry! • Rear Vision Camera! • OnStar w/4G LTE w/built-in Wi-Fi hotspot! Tilt and Telescopic Steering Column! • 17" Aluminum Wheels!

 32 MPG on the Highway! NO SECURITY
The Best Price PERIOD!

Was \$27,180 Sale Price 22,556'

NO SECURITY
PERIOD!

TAX, TITLE AND
PLATE FEES EXTRA!

24 MONTH LEASE • 10K PER YEAR:

2015 CRUZE "LT"

2 Yr/24,000 Scheduled Maintenance INCLUDED!
 ECOTEC 1.4L "Turbo" DOHC WT Engine! • Automatic Transmission!

 OnStar with 4G LTE with built-in Wi-Fi hotspot! • AM/FM/XM Radio w/CD! • 16" Aluminum Wheels! Rear Window Defogger!

 Remote Keyless Entry • 38 MPG on the Highway was \$20,920 Sale Price \$16,599*

NO 1ST PAYMENT OR SECURITY DEPOSIT REQUIRED. TAX, TITLE AND PLATE FEES EXTRA! PERIOD! 24 MONTH LEASE - 10K PER YEAR:

Stock#F22017

Deep Tinted Glass!

The Best Price...

Stock#F23253

May is Military Appreciation Month!...Active Duty and Veterans Get Special Pricing!

2015 MALIBU "LT"

• 2 Yr/24,000 Scheduled Maintenance INCLUDED! • 2.5L DOHC VVT Engine! • 7" Color Touch Screen MyLink Radio! OnStar with 4G LTE with Built-in Wi-Fi hotspot!

• Tilt and Telescopic Steering Column! • Cruise Control! · Remote Keyless Entry! Aluminum Wheels! 36 MPG on the Highway!

NO 1ST PAYMENT Was \$24,560 Sale Price 19,555 PERIOD!

NUTST PAYMENT OR SECURITY

DEPOSIT REQUIRED.

PERIOD!

PLATE FEES EXTRA!

24 MONTH LEASE - 10K PER YEAR:

2015 SILVERADO "L

• 2 Yr/24,000 Scheduled Maintenance INCLUDED! 4x4 • DBL CAB • ECOTECH 4.3L V6 Engine! • Color Touch Screen MyLink Radio!

 Cruise and Tilt! • OnStar with 4G LTE with built-in Wi-Fi hotspot! Automatic Transmission!
 Power Locks/Windows · Remote Keyless Entry!

Was \$38 925 Sale Price \$31,329*

NO SECURITY
The Best Price...
PERIOD!

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DEPOSIT REQUIRED.
TAX, TITLE AND
PLATE FEES EXTRA! 24 MONTH LEASE • 10K PER YEAR:



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24 MONTH/10K PER YEAR

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EMPLOYEE \$389

36 MONTH/10K PER YEAR



PRE-OWNED

\$23,994 2012 CTS Base • Stk#X90170 \$31,394 2013 XTS Base • Stk#90157 CERTIFIED PRE-OWNED \$36,900 2013 XTS Luxury • Stk#P9231 CERTIFIED PRE-OWNED \$28,989 2013 SRX Luxury • Stk#X90165 CERTIFIED PRE-OWNED *\$25,700* **2013 ATS Luxury • Stk#X90153**

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PRE-OWNED SPECIALS

2009 CTS 1SA • Stk#P9225

\$17,500

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Lessee pays for excess wear and tear charges. All applicable rebates to dealer. Photo may not represent actual vehicle. ATS Coupe/Sedan, SRX & XTS must show proof of current GM Lease. CTS must show proof of ownership or lease of 2003 or newer Cadillac CTX. MRSP's: ATS \$38,240, ATS Coupe \$41,440, CTS \$48,340, XTS \$45,595, Escalade \$82,245, SRX \$38,600. Due at signing ATS \$1,809, ATS Coupe \$2,219, CTS \$3,119, XTS \$2,679, Escalade \$4,869, SRX \$339. See dealer for details. Take delivery by 5/31/2015.



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**See dealer for details and rebate form, which must be postmarked by 6/30/15. Allow 6 to 8 weeks for delivery of debit card.

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Certified Service

Faster Electric Automobile Charge Times on the Way

Electric vehicle charge time matters, so most battery and plug-in hybrid electric vehicle (PHEV) manufacturers in Europe and the United States (US) have been adopting onboard chargers with a power output between 3 to 3.7 kilowatts (kW), according to a study done by Frost & Sullivan, an international consulting firm that analyzes industries and advices customers on planning.

Now, EV manufacturers are moving towards onboard chargers with a power output greater than 6.6 kW to reduce charging time, said Frost & Sullivan spokeswoman Katja Feick. While high-end PHEVs are contributing to this trend, lower-end models in this segment are still using 3.7 kW onboard chargers. Consequently, onboard chargers with power ratings between 3 to 3.7 kW are expected to remain dominant, accounting for 62 percent of sales even in 2020.

New analysis from Frost & Sullivan, Strategic Analysis of the US and European Onboard Chargers Market finds that sale volumes of onboard chargers stood at 304,683 units in 2014 and estimates this to reach 2,235,937 units in 2020, Feick said.

More than 15 major companies supply onboard chargers globally, with Lear Corporation and Panasonic in key positions as suppliers for Chevrolet Volt and Nissan Leaf – the top-selling EVs in Europe and North America, Feick said.

All these companies offer isolated chargers and many including Brusa and Panasonic are investing in R&D to introduce nonisolated chargers.

"Currently, over 60 percent of components required to make onboard chargers are being outsourced due to high in-house manufacturing costs," said Frost & Sullivan Automotive & Transportation senior research analyst Prajyot Sathe. "Tier I suppliers in Europe and the US have mainly been sourcing components such as electromagnetic interference filters, power factor controllers (PFCs), and direct current (DC)-DC converters from tier II suppliers."

While most suppliers have the expertise to manufacture components in-house, they have refrained from doing so due to low demand for onboard chargers, Sathe said.

Suppliers must, however, begin to manufacture DC-DC converters and PFCs themselves, as these components account for the maximum cost of onboard chargers and contribute to higher prices.

"To cope with the current scenario, major vehicle original equipment manufacturers (OEMs) such as Daimler are expected to adopt the component sharing strategy, which will drive production volumes and reduce the cost of components," said Sathe.

"Another strategy vehicle OEMs could consider is entering strategic alliances to pool the technical expertise of partners and decrease manufacturing costs."

By way of high-volume manufacturing and strategic partnerships, onboard charger suppliers in Europe and the US will be able to lower the price of their products, Sathe said.

While the current price of an onboard charger ranges from \$130 to \$230 per kW, prices are likely to fall by 20 to 25 percent within 2020.



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General Motors Offers Military Discounts to Vets

In honor of those who have served in the U.S. military. GM is offering a special deal.

From May 1 to June 30, 2015, all active, reserve, retired and veteran military - regardless of separation date - can receive the GM Military Discount on eligible Chevrolet, Buick and GMC vehicles, said GM spokeswoman Leslie Warnke.

More than 40,000 active and veteran service members took advantage of the GM Military Discount last year, Warnke said, and GM is again offering the most comprehensive military pricing program of any automaker to all 22 million active and veteran service members from all branches: U.S. Air Force, Army, Navy, Marines, National Guard and Coast Guard - and their spouses – during May and June.

GM has supported the U.S. military for 100 years and we continue to be their strong allies," said Steve Hill, GM vice president of U.S. sales and service. "This discount is just one way we're thanking the men and women who've served our coun-

First offered in 2008, the GM Military Discount Program features pricing below the Manufacturer's Suggested Retail Price for eligible vehicles. The expanded eligibility makes it the most comprehensive military purchase program in the auto industry through June 30.

The discount can be combined with most other current incentives. Current USAA Insurance members are also eligible for an additional \$750 discount. Eligible customers must take delivery by June 30, 2015.

GM Chief Diversity Officer and retired U.S. Navy Capt. Ken Barrett said the GM Military Discount recognizes and demonstrates appreciation for those who have served.

"Our support also includes significant employment and training opportunities for our currently transitioning military and philanthropic support for organizations dedicated to serving those who have sacrificed so much," Barrett said.

Learn more at this at the Web gmmilitarydiscount.com and ChevySalutes.com.

U.S. Government Pushes Chrysler Investigation

DETROIT (AP) - The United States government is reopening an investigation into Jeep and Dodge sun visors after reports that some caught fire even after a recall repair.

Fiat Chrysler Automobiles recalled 895,000 2011-2014 Jeep Grand Cherokees and Dodge Durangos worldwide last summer after a government investigation found that a short in the vanity lamp wiring could cause visors to burn.

Fiat Chrysler has been adding a plastic part to the visor to properly guide the wires to take care of the problem.

Fiat Chrysler said the defect was only present in SUVs that were incorrectly reassembled after previous repairs.

But on May 5, the National Highway Traffic Safety Administration said it has reopened its investigation after receiving eight reports that visors caught fire even after the recall repair.

No crashes or injuries related to the issue have been reported to the National Highway Traffic

Safety Administration so far. Fiat Chrysler says it's cooperating with the government on the investigation, said Fiat Chrysler officials.

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EMPLOYEE PRICE **\$21,072***

\$21,997* & FAMILY



NEW 2015

4G LTE WI-FI HOTSPOT, HEATED LEATHER SEATS, POWER FRONT SEATS. HEATED STEERING WHEEL, PASSIVE ENTRY, PUSH BUTTON START,

REAR PARK ASSIST, REMOTE START, 110 VOLT OUTLET, 259 HP TURBO ENGINE, REAR CAMERA, INTELLILINK RADIO, BLUETOOTH, SATELLITE RADIO, 18" ALLOY WHEELS, #F9188220 POWER SEAT, ONSTAR W/TURN BY TURN NAVIGATION & MUCH MORE.

EMPLOYEE LEASE

\$93*/mo

EMPLOYEE

\$28,269*

FRIENDS & FAMILY LEASE

\$176*/mo

& FAMILY

\$28,999*

\$127*/mo

\$166*/mo

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REAR CROSS TRAFFIC DETECTION, 4G LTE WI-FI HOTSPOT. INTELLILINK RADIO. BLUETOOTH. SATELLITE RADIO DUAL ZONE AUTOMATIC CLIMATE CONTROL, ONSTAR W/ TURN BY TURN NAVIGATION & MUCH MORE. #F4130599

\$33*/mo

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FRIENDS &

FAMILY LEASE

\$74*/mo

DEMO 2015 BU

REAR PARK ASSIST, INTELLILINK RADIO, HEATED LEATHER SEATS. 4G LTE WI-FI HOTSPOT, PUSHBUTTON START, REAR CAMERA, USB PORT. BLUETOOTH. REMOTE START. POWER SUNROOF.

POWER SEATS, MEMORY SEATS & MIRRORS, SATELLITE RADIO, ONSTAR W/TURN BY TURN NAVIGATION, DUAL ZONE AUTOMATIC CLIMATE CONTROL, #FF163192 18" ALUMINUM WHEELS & MUCH MORE.

\$199*/mo \$239*/mo

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24 MONTH EMPLOYEE

\$99*/mo

\$141*/mo

EMPLOYEE PRICE

\$**22,863***

\$23,873*

DEMO 2015 AWD SLE-2 GMC ACADIA

ALL WHEEL DRIVE. HEATED SEATS, ROOF RACK RAILS, POWER LIFTGATE. POWER SEAT. INTELLILINK RADIO, REMOTE START.

REAR CAMERA, REAR PARK ASSIST, BLUETOOTH, SATELLITE RADIO, ONSTAR W/TURN BY TURN NAVIGATION,

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24 MONTH EMPLOYEE \$158*/mo

EMPLOYEE PRICE

\$31,035*

& FAMILY

\$32,517*

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5.3L V8 ENGINE. HEATED SEATS. POWER ADJUSTABLE PEDALS. REAR PARK ASSIST, REAR CAMERA POWER SLIDING REAR WINDOW,

LOCKING REAR DIFFERENTIAL. POWER SEAT, REMOTE START.

REAR DEFROST, 110 VOLT POWER OUTLET, DUAL ZONE AUTOMATIC CLIMATE CONTROL, FOG LAMPS, 20" ULTRA BRIGHT WHEELS, 4G LTE WI-FI HOTSPOT, TRAILER PKG & MUCH MORE.

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FAMILY LEAS

\$231*/mo

\$270*/mo

EMPLOYEE

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& FAMILY

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EMPLOYEE

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