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GM Foundation's \$75,000 **Donated to Help in Warren**

by Jim Stickford

High school students and the needy – all from Warren – benefitted from funds donated last week by the GM Foundation's Plant City Grants program.

Officially presented at GM's Warren Transmission Plant Nov. 6, the funds – totaling \$75,000 – were presented to eight local charities.

Pickard said the Plant City Grants program is designed to help local charities in the 45 cities where GM has facilities and workers across the country.

"The greatest thing about this program is that it allows the local employees at the various GM sites to make the decision as to which groups receive funding," Pickard said. "These groups have an impact on the community and many of them have GM employees involved with them.'

Pickard said the GM Foundation is based in Detroit and foundation decision-makers can't know which local programs could help communities that could be hundreds or even thousands of miles away from the

to make an impact in local communities.

"That's why we let the local employees decide which groups to donate to. They're the ones involved on the ground.'

In 2014, the GM Foundation will donate \$1.7 million to 209 different groups in 45 communities, Pickard said.

The eight groups that received funds on Nov. 6 were chosen by Foundation president Vivian the workers at Warren Transmis-

> Mike Dulaney, Warren Transmission plant manager, said that the presentation ceremony symbolized the pride that Warren Transmission workers have in their plant and in the community that is home to the facility.

"This is our community and it's an honor to have a role in helping these groups," Dulaney said.

On hand were representatives from the eight local charities -

- Family Youth Interventions. which help homeless and near homeless people in a time of cri-
- Winning Futures, a group that supports high school students to develop life skills through a year-long mentoring program;
- "We started this program in 2011," Pickard said. "We wanted Metropolitan Detroit, which has



Representatives from eight local charities gather at Warren Transmission Plant to celebrate GM donation.

a site-based mentoring program that helps teenagers on a one-onone basis;

- Macomb Science Olympics, which has a mission of encouraging student interest in STEM learning and careers;
 - Warren Lions Club, which

has eye exam programs and helps purchase glasses for those in need;

- Judson Center, which helps 6,500 families and children across metro Detroit;
- Council, which has received sup-

port from GM for two decades and helps educate students on the importance of clean water through hands-on learning proj-

· Warren Symphony Orches-• Clinton River Watershed tra, which educates Warren's students on music.

Lower Gas Prices Fuel Rise in October Sales

By TOM KRISHER and DEE-ANN **DURBIN** AP Auto Writers

DETROIT (AP) - Falling gas prices improved buyers' moods and boosted sales of SUVs and trucks in October.

GM, Toyota, Chrysler, Nissan, Volkswagen and Honda all reported sales gains last month. Of major automakers, only Ford and Hyundai saw declines.

Industry sales rose 6 percent over last October, according to

Autodata Corp.

gasoline fell 33 cents to end October at \$3 a gallon, according to AAA. Gasoline is now the cheapest it has been in four years, and the decline accelerated a trend toward SUVs and trucks that has been going on all year.

"Gas prices coming down added a little bit of fuel to the fire, but that fire was already roaring," said Alec Gutierrez, a senior analyst with Kelley Blue

Small SUVs have been the fastest-growing segment in the U.S. this year, and now make up The national average price of one out of every four vehicles

sold, says Jesse Toprak, the chief sales analyst for the car-buying site Cars.com.

But gas prices fueled sales of bigger SUVs. Kelley Blue Book saw renewed interested in the mammoth Hummer H1 last month, for example. Sales of the recently redesigned Lincoln Navieight-passenger gator 38 percent, Chevrolet Tahoe sales rose 6 per-

Gas prices also convinced small business owners to go

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Analyst John Krafcik

King Cobra 'Has Serious Bite'-Ford's Allison

Ford enthusiasts got a taste of excitement at the 2014 SEMA show in Las Vegas last week when Ford Racing unveiled a special 2015 Mustang GT built exclusively with Ford Racing performance parts.

The "King Cobra," introduced Nov. 5, has some serious bite, said Jamie Allison, director of Ford Racing.

Built to be a high-performance street-and-drag-strip car, the King Cobra can be replicated by any Mustang owner with the help of Ford Racing's extensive parts catalog, Allison said.

"At Ford Racing, we like to push cars to their absolute limit," said Allison. "This is something we have been doing for 113 years and why we were so excited to get our hands on the allnew 2015 Mustang.

"We wanted Mustang enthusiasts to be able to open up the Ford Racing parts catalog and get one of everything and see King Cobra package is it. But



2015 Mustang GT "King Cobra"

none of this great work would be possible if Team Mustang had not built the best production Mustang yet.'

This one-off concept is a showcase for Ford Racing's first performance packages available for what they could get. We think the the 2015 Mustang, Allison said. It is equipped with Ford Racing's

"Drag Pack," "Handling Pack," and "Super Pack" supercharger kit that helps the King Cobra produce 600-plus horsepower.

The Drag Pack includes heavyduty half-shafts, and a rear subframe kit with pre-installed high-

CONTINUED ON PAGE 7

TrueCar President Suggests Chrysler, VW Combine Forces

by Jim Stickford

Let the rumors begin.

John Krafcik, president of the automotive shopping site True-Car, said his company's analysis of the current North American car market suggests that some sort of agreement between Chrysler and the Volkswagen Automotive Group to combine forces and portfolios makes sense.

He shared his observations at an Automotive Press Association event held at the Detroit Athletic Club on Nov. 4.

This idea, Krafcik said, is derived from the way TrueCar looks at the overall automotive market. Instead of looking at the

market through the lens of number of vehicles sold, the company looks at it with the idea that what matters is total dollar amount of revenue generated from different vehicle market segments

"We divide the market," Krafcik said, "into four super segments - cars, pickup trucks, utility vehicles and premium vehi-

In 2009, the North American automotive market broke down as total revenue of about \$292 billion. Pickups and utilities accounted for about 44 percent of the market.

"Fast forward to 2014 and fully

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Ford Recalling 202,000 Cars, Vans and Trucks

By TOM KRISHER AP Auto Writer

DETROIT (AP) - Ford is recalling more than 202,000 cars, vans and trucks in North America in five separate recalls to fix gas leaks, air bag sensors, stalling and other issues.

The company says the problems have caused one accident. but it's not aware of any injuries.

The biggest of the recalls announced Nov. 4 affects about 135,000 F-150 pickups and Ford Flex family haulers from the 2014 model year. Faulty passenger seat weight sensors can stop air bags from inflating in crashes.

Dealers will widen a gap between the seat frame and track, and then recalibrate the sensors. Also covered are some 2009-14 F-150s that were serviced for seat track problems this year.

The recalls are examples of how automakers are moving faster to report and correct safety problems in the wake of large penalties paid to the U.S. government by General Motors and Tovota.

GM was fined \$35 million for its slow response to the ignition switch recall and Toyota paid a \$1.2 billion penalty to settle a criminal charge.

So far this year, automakers have issued more than 550 recalls affecting more than 52 million vehicles. That shattered the old full-year record of 30.8 million recalled vehicles set in 2004. GM alone has issued 75 recalls totaling more than 30 million vehicles this year.

The other Ford recalls:

• About 38,600 Ford Crown Victoria, Mercury Grand Marquis and Lincoln Town Cars from 2005 to 2011. They're being recalled for a second time to fix problems with steering shafts that can separate. Improper repairs can cause loss of steering.

Dealers will inspect and replace the upper intermediate steering shaft if needed. They also will inspect lower steering column bearings and install bearing retainers if needed. Ford says it knows of one crash from this problem.

• About 27,600 Transit Connect small vans from 2014 for potential fuel line leaks. Fuel and vapor lines may have been routed incorrectly in vans with 2.5liter engines. The lines can rub and possibly cause leaks over time. Ford says it's not aware of any fires. Dealers will inspect and reroute the lines if needed.

• About 90 Transit large vans from 2015 with 3.2-liter diesel engines. A bracket that holds the fuel filter to the frame can detach, causing engine stalling. Dealers will reinforce the underbody structure.

• About 960 F-150 pickups from 2014. A brake pedal position switch may not be set right. This could delay illumination of brake lights and require increased effort to shut off the cruise control. Dealers will reinstall the switch.

Feds Fine Hyundai, Kia \$100 Million for Overstating Gas Mileage on Window Stickers

WASHINGTON (AP) - Korean automakers Hyundai and Kia will pay the U.S. government a \$100 million civil penalty to end a twoyear investigation into overstated gas mileage figures on window stickers on 1.2 million vehicles.

The penalty, announced Nov. 3 by the Justice Department and the Environmental Protection Agency, is the first under new rules aimed at limiting the amount of heat-trapping gases cars are allowed to emit. Those regulations are a cornerstone of plans to combat global warming and are achieved largely through improving vehicle fuel economy.

The payment could also serve as a precedent for other automakers who overstate mileage in violation of the Clean Air Act. Attorney General Eric Holder said the settlement shows the need for car companies to be forthcoming about their compliance with emissions standards.

Under the settlement, Hyundai-Kia will forfeit greenhouse gas credits worth more than \$200 million because the 13 affected vehicles will emit about 4.75 million more metric tons of greenhouse gases than the automakers originally claimed. The credits could have been sold to other automakers who aren't meeting emissions standards.

Hyundai-Kia must also audit test results on current models, and set up an independent group to certify future test results, at a cost of around \$50 million.

Officials said the misrepresentations put other car companies at a competitive disadvantage, especially since fuel economy is the "number one factor that consumers think about when they're going to buy a car," said EPA Administrator Gina McCarthy.

"That tilts the market in favor of those who don't play by the rules and it disadvantages those that actually do play by the rules." McCarthy said at a news conference. "And that's simply not fair, and it's also not legal."

The companies, which are both owned by Hyundai and generally sell different versions of the same models, denied allegations that they violated the law. Hyundai blamed the inflated mileage on honest misinterpretation of the EPA's complex rules governing testing. Both companies said they are paying the penalties - \$56.8 million for Hyundai and \$43.2 million for Kia - to end the probe and potential litigation.

All automakers do their own mileage tests based on EPA guidelines, and the agency does audits to make sure they are ac-

In the past two years, the EPA has stepped up audits of automaker tests. Just two weeks ago, the agency told BMW to cut mileage estimates on four of its Mini Cooper models. Ford and Mercedes-Benz also had to cut numbers on their window stickers. EPA officials wouldn't comment on whether the agency is investigating the other automak-

In November of 2012, the EPA ordered Hyundai and Kia to redo the window stickers on cars that made up about one-third of their model lineup. Generally, gas mileage was overstated by one or two miles per gallon. But the EPA's tests found the highway mileage of one vehicle, the boxy Kia Soul, was 6 mpg too high. Both automakers started a program to reimburse automakers for the difference between their

mileage tests and the EPA's lower numbers.

The EPA and Justice, in an agreement filed in federal court, clearly said the automakers violated the law. But the agencies said they reached the agreement because it was fair and in the public interest. The government alleged Hyundai and Kia "chose favorable results rather than average results from a large number of tests."

But in a statement, Hyundai blamed the problem on the EPA's regulations.

The company said that some EPA mileage tests are done on a dynamometer, which is a treadmill for cars. To calculate wind drag, friction in the engine and transmission, and tire rolling resistance, automakers do tests on a track, measuring how long it takes for cars to "coast down" to a stop. That test yields a number that is programmed into the dynamometer.

But Hyundai said automaker interpretations of the tests vary because regulations don't specify exactly how to do the tests. Tire rolling resistance, engine warm-up, winds and other factors can vary between EPA tests and those done by automakers, the company said.

"It was our regulatory interpretation within this broad latitude that was responsible for the ratings restatement," spokesman Jim Trainor said.

McCarthy, however, said that the carmakers' testing protocol was "systemically flawed" and "inconsistent with normal engineering practices and inconsistent with how any other company has been doing this."

Model Car Builders Schedule Show At MCC Nov. 16

The Detroit Area Auto Modelers Club is holding its late fall show on Sunday, Nov. 16, at the Macomb Community College Sports & Expo Center from 9 a.m. to 3 p.m.

The event, said club president Tom Tilton, is open to the public for a \$5 entry fee.

"We call this event the 'Motor City NNL 10," Tilton said. "NNL means 'nameless national luminaries.' It's a name that club members came up with as a bit of a joke.

"A bunch of guys in Ohio wanted to get together and show everyone what they were doing with their model cars and what they were working on without having to enter some sort of contest where their models might be judged."

The Detroit Area Models Club has been around for about 30 years, Tilton said. Its members come from metro Detroit and northern Ohio. The club is based on their love of model cars.

The theme of the upcoming show is "50 Years of the Mustang," Tilton said. The subtheme is "100 Years of Dodge." Tables will be dedicated to models of Mustangs and Dodges through the years.

"We'll have 250 vendor tables with models, model kits, die cast cars and other toys for sale," Tilton said.

"Any money left over will be donated to charity.

"We try to give back to the community. We like to help our members when we can. One member recently died of complications from cancer and we're trying to help his widow with some of the expenses."



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'I've Been Able to Do More with One Leg Than I Ever Thought I'd Do with Two'

by Jim Stickford

U.S. Army veteran Melissa Stockwell doesn't let a "little" thing like losing a leg to an IED in Iraq prevent her from participating in Iron Man triathlons.

Stockwell spoke at GM's Veterans Day Recognition event that was held in the AEC building at the Tech Center on Nov. 7.

Alaina Maten, who is a project purchasing buyer for GM, organized the event.

A first lieutenant in the Michigan Army National Guard," Maten said, "We hold this event every year. I planned it with the help of the Warren chapter of the GM Employees Veterans Resource Group and the GM's People with Disabilities group.

"This year is a big year for female leadership at the company, what with Mary Barra. So when it came time to pick a speaker, we wanted a woman in a leadership role who could speak about being a veteran."

So they invited Stockwell, who lives in Chicago, to be a speaker. They also invited the River Rouge school district's Junior Reserve Officers Training Corps to attend and hear what Stockwell had to say.

Stockwell said she always loved America and would always talk with people in uniform. So when she went to the University of Colorado in Boulder as a communications major, she saw the school's ROTC contingent marching and thought that might be something that would interest

During her sophomore year, she joined the ROTC program. It was a surprise to her parents.

When I told them, there was silence," Stockwell said. "Then my father said, 'They have women in the Army?' My family always thought that my love of the military was a phase that I would outgrow."

The 9/11 attacks occurred during her senior year at Colorado.

"I remember watching the news while at my ROTC courses that Tuesday," Stockwell said. "My instructor told us this was a day that would change our lives and it was now a matter of when not if – we would be deployed."

After graduation from college in 2002. Stockwell said, she was commissioned as an officer for what she thought was to be four years of active duty in the Army. After training in Fort Hood, Texas, she was deployed to Iraq.

On April 13, 2004, while in Iraq, first lieutenant Stockwell was doing a "ride-along" because she would be commanding the supply convoy the next day. She was positioned behind the driver and when they went under an underpass, the vehicle hit an IED.

Stockwell said this was early in the war and the Humvees weren't armored. She noticed that the windshield was cracked and then she noticed she was bleeding. Fortunately, there was a combat medic in the convoy who was able to provide life-saving medical attention right away.

"In my mind, I couldn't understand why everyone was running around trying to take care of me," Stockwell said. "It wasn't until they put a tourniquet on me that I understood how serious the wounds were."

She was flown to the Green Zone and an American hospital, then to Germany and operated on and it was there she was told that she lost her leg.

Her father was in Vienna on business and her sister was in Slovakia, so they were able to get to the German hospital within a day. Her mother was at Walter Reed Army Hospital in Washington, D.C., when she arrived there.

It was at Walter Reed where she recovered and learned to walk again. She gave her stump the nickname, "little leg."

"On my first day trying to learn how to walk with a prosthetic leg, I saw a man who had lost two legs and an arm walking," Stockwell said. "He was showing me it could be done.'

Stockwell said people would visit Walter Reed and help the wounded pass the time. She remembers meeting Tom Hanks and having a really great talk. She also met Ozzy and Sharon Osbourne.



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After being medically discharged from the Army in 2005, Stockwell went to Century College in Minnesota to get a degree in prosthetics.

Stockwell said that before she was in the Army, she was a gymnast and always dreamed of getting a perfect 10 at the Olympics.

That never happened, but while she was at Walter Reed, she was approached by Wounded Warriors and asked if she would want to go on a ski trip in December of 2005.

"I couldn't even get out of bed, but I signed up," Stockwell said.

After getting out of the hospital, Stockwell decided to train full-time for the Paralympics as a swimmer. She qualified for the team and swam for the U.S. in the 2008 Paralympics in Beijing two weeks after the 2008 Olympics. Though she didn't win a medal, she was chosen to carry the U.S. flag in the closing ceremony.

She enjoyed the experience and she found her love of athletics renewed. Since leaving the Army, Stockwell has participated in several triathlons – running-bi-



Stockwell at GM's Veterans Day event

cycling-swimming events and the ultimate triathlon – the Iron Man, where participants endure a rigorous test.

Stockwell, who works for Scheck and Siress Prosthetics in Chicago, is expecting her first child - a boy - in three weeks. She said she helps amputees with their prosthetics and finds the work very satisfying.

She considers her helper dog Jake a part of the family. She trained with him in New York and he does things like fetch her crutches when she takes off her leg at home.

Stockwell is a member of the board of directors of Wounded Warrior Project and a co-founder of dare2tri, which is a triathalon club for athletes with disabilities.

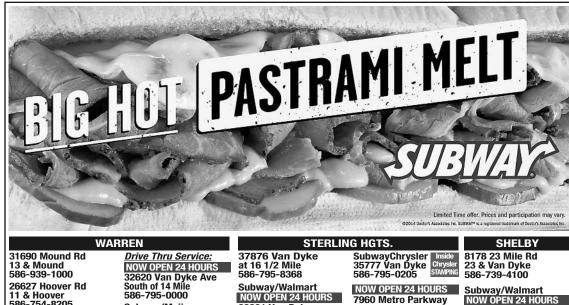
"I am proud of my story," Stockwell said. "Life is too short not to be proud of who you are."

She calls April 13, 2004, her "life day," a term many veterans

"I've been able to do more with one leg than I ever thought I'd do with two," Stockwell said. "I say don't let setbacks swallow you up. Don't be afraid of change embrace it."







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Detroit Carmakers 'Have Really Made Strides In Improving' - Consumers Digest Editor

by Jim Stickford

Detroit's automakers came out on top in a Consumers Digest list of automotive "Best Buys" for the 2015 model year.

Consumers Digest selects "Best Buys" by identifying vehicles that deliver the most value for the money within their segment.

Value is determined by purchase price and ownership costs, as well as comfort, performance and utility, among other factors, said Rich Dzierwa, Consumers Digest editor.

The automotive editors at Consumers Digest drive "Best Buy" contenders in a range of circumstances and conditions to evaluate vehicle characteristics such as acceleration, ride quality, fuel economy, fit-and-finish, styling, and interior ergonomics.

We made a total of 44 recommendations across 12 categories," Dzierwa said. "A number of Detroit vehicles, including the Chevy Traverse, the Buick Enclave and the GMC Acadia did very well. Overall, of the 44 vehicles we recommended, 23 of them were from the domestic manufacturers.

The magazine's 2015 Automotive Best Buys are:

- Top three subcompacts Chevrolet Sonic, Fiat 500, Ford
- Top three compacts Ford Focus, Honda Fit, Mazda3;
- Top seven family cars -Chevrolet Impala, Chrysler 200, Ford Fusion, Lincoln MKZ, Honda Accord, Hyundai Sonata, Kia Op-
- Top four luxury cars Audi A6, Buick LaCrosse, Cadillac ATS Sedan, Hyundai Genesis Sedan;
- Top five sporty cars -Chevrolet Corvette, Ford Mustang, Mazda MX-5 Miata, Scion FR-S/Subaru BRZ:
- Top three hybrids Ford Fusion Hybrid, Lincoln MKZ Hybrid, Honda Accord Hybrid;
- Top three minivans Chrysler Town & Country, Dodge Grand Caravan, Honda Odyssey;
- Top three compact SUVs -Ford Escape, Mazda CX-5, Subaru



2014 Chevy Cruze

- Top three midsize SUVs -Honda Pilot, Hyundai Santa Fe, Jeep Grand Cherokee;
- Top five full-size SUVs -Buick Enclave, Chevrolet Traverse, GMC Acadia, Dodge Durango, Mazda CX-9;
- Top three luxury SUVs Acura MDX, Acura RDX, BMW X5;
- Top two pickups Ford F-150, Ram 1500.

"The 200 puts Chrysler solidly in the U.S. family sedan picture," said Dzierwa. "The 200 sedan's recognition as a Consumers Digest Best Buy in its launch year speaks well of Chrysler Group's efforts recently."

Dzierwa said that Chrysler really started to show on the magazine's list starting around 2012 and 2013.

"Chrysler has been impressive for the past three or four years," Dzierwa said. "Things really started to take off when Fiat entered the picture but even before that, Chrysler was working on improving vehicles. It really started with the Jeep Grand Cherokee, which was started before

Dzierwa also said that Ford's Lincoln models are new to a couple of categories and the brand really has made some moves to improve quality that could pay off in the future. In all, the Detroit manufacturers have really made strides in improving their vehicles over the past decade, he said.

"I've been here at the magazine for 11 years," Dzierwa said.

"When I first started, GM and Ford and Chrysler didn't have too many vehicles on our list. But for the last handful of years, that's really changed. It's not only me. I've spoken with our panelists and our writers and they all say that the Detroit automakers have really caught

"It used to be that there'd be a lot of Asian vehicles, a few European ones and a couple of American cars. That isn't the case any-



2015 Town & Country



2014 Ford Fusion

GM Goes GREEN with Student Program

watershed education program in seven new communities across Canada this year, the largest international expansion in the initiative's 25-year history.

The GM Global Rivers Environ-Network Education (GREEN) now comprises 53 GM facilities, including all of the company's U.S. and Canadian manufacturing plants, said GM spokesperson Sharon Basel.

GM GREEN is the longest-running conservation education program by any automaker, impacting 150,000 young people through hands-on learning since its inception in 1989, Basel said.

GM GREEN is meant to encourage community engagement by helping youth better understand their impact on local watersheds, Basel said, adding that it's a collaboration of partners, from the nonprofit Earth Force that manages the program to local schools and conservation groups in communities in which GM op-

"This program is a model for how the public and private sectors can come together to make a meaningful, lasting impact on the environment and in our commu-

General Motors launched its nities," said Lisa Bardwell, Earth Force president and CEO.

> "Through GM GREEN, we are investing in two of our most precious resources - our children and watersheds."

Through GM GREEN, employees mentor approximately 10,000 students each year in water monitoring events, classroom visits and student-driven watershed improvement projects. Students retrieve, test and analyze water samples, then channel findings into a sustainable action plan addressing water quality issues lo-

The new GM GREEN sites span four Canadian provinces:

- St. Catharines Powertrain -St. Catharines, Ontario;
- CAMI Assembly Ingersoll,
- Woodstock Parts Distribution Centre - Woodstock, On-
- GM Cold Weather Development Centre - Kapuskasing, On-
- Pointe Claire (Montreal) Parts Distribution Centre Pointe-Claire, Quebec;
- Langley (Vancouver) Parts Distribution Centre - Langley, British Columbia;

• Edmonton Parts Distribution Centre – Edmonton, Alberta;

"Our commitment to the environment isn't just about reducing the impact of our operations it's about getting the next generation of leaders excited about how they can help preserve natural resources and be a positive force in their community," said Cathy Clegg, GM North America Manufacturing vice president.

"We work hard to serve and improve the communities in which we live and work around the world."

More than 3,200 GM employees have been involved in GM GREEN over the past quartercentury. Additionally, GM and the GM Foundation provide financial support to the national program and local partners.

GM is committed to conserving water throughout its operations, Clegg said. Between 2005 and 2010, the company reduced water use per vehicle produced by 32 percent and committed to another 15 percent reduction by

Employee dedication to community outreach further makes an impact in protecting this critical resource.

Battery Consortium Grants \$2.68 Million for Research

The United States Advanced Battery Consortium (USABC) has awarded a \$2.68 million advanced battery technology development contract to Maxwell Technologies Inc. of San Diego,

The contract, awarded Nov. 3. is for the development of a highperformance, hybrid energy stor- http://www.uscar.org/guest/artiage system for automotive stop- cle_view.php?articles_id=85 start applications.

The competitively bid contract award is co-funded by the U.S. Department of Energy (DOE) and includes a 51 percent Maxwell cost-share.

The 19-month program, said USABC spokesperson Susan Bairlev. will focus on the technological and economic feasibility of adopting a 12-volt hybrid energy storage system consisting of lithium-ion batteries Maxwell ultracapacitors to an automotive stop-start application that meets USABC specifications, Bairley said.

The program goals will include development of an improved capacitor.

USABC is a subsidiary of the United States Council for Automotive Research (USCAR) and is a joint Chrysler-Ford-GM program. Enabled by a cooperative agreement with the U.S. DOE, US-ABC's mission is to develop electrochemical energy storage technologies that support commer-

cialization of hybrid, plug-in hybrid, electric and fuel cell vehicles, Bairley said. In support of its mission, USABC has developed mid- and long-term goals to guide its projects and measure its progress.

For more information, visit the USABC's website

"We are pleased to announce the award of this contract to Maxwell Technologies as part of USABC's broad battery technology research and development programs," said Steve Zimmer, executive director of USCAR.

"These programs are essential to advance the technology needed to meet both near- and longterm goals that will enable increasingly efficient and affordable vehicle electrification."

The U.S. DOE's overarching mission is to advance the national, economic and energy security of the United States, Bairley said.

DOE's Vehicle Technologies Office works with industry, academia and national laboratories to develop advanced transportation technologies that reduce the nation's use of imported oil and increase its energy security.

Electrochemical energy storage has been identified as a critical enabling technology for advanced, fuel-efficient, light- and heavy-duty vehicles.



GM CAMI Assembly mentor Sarah Tea, left, and local students test water quality in Canada.

Lower Gas Prices Fuel Rise In October Vehicle Sales

CONTINUED FROM PAGE 1

ahead and buy pickup trucks, Toprak said. GMC Sierra sales jumped 12.5 percent in October. Ram pickup sales were up 33 per-

Fuel economy is no longer top of mind for most buyers, according to an annual survey taken by J.D. Power and Associates in June. Last year, it ranked No. 3 on the list of reasons why people buy cars. This year, it dropped to No. 6 behind reliability, styling, brand preference, ride and handling, reputation and price.

As a result, hybrid sales are suffering. Sales of Ford's C-Max hybrid dropped 22.5 percent in October, while Toyota Prius sales were down 13.5 percent.

But sales of some small cars rose. Lower gas prices can help first-time buyers and others feel comfortable enough to buy a new car. Sales of the newly redesigned Honda Fit subcompact were up 83 percent in October, for example, while sales of the Nissan Sentra small car rose 56 percent.

"Lower gas prices are actually a tide that floats all ships," said Jessica Caldwell, a senior analyst with the car-buying site Edmunds.com.

General Motors' overall U.S. sales rose just 0.2 percent to 226,819. Chevy Cruze compact car sales were up 51 percent, largely due to increases in fleet sales to governments and rental car companies.

Ford's sales fell 2 percent to 187,897. Its car sales declined 11.5 percent, but SUV sales were up 10 percent. F-Series truck sales were flat. For several months now, Ford has tried to limit pickup sales and keep some balance in the industry.'

trucks in stock as it prepares for the launch of a new F-150 later this year.

Chrysler said its U.S. sales rose 22 percent to 170.480 for its best October since 2001. The red-hot Jeep brand led the way with a 52 percent increase over a year ago.

Toyota said it set an SUV sales record in October thanks to a 22 percent gain for its RAV4 small SUV, and a 30 percent jump in sales of the Highlander mid-size SUV. Toyota's sales were up 7 percent overall to 180,580.

Nissan, Honda and Subaru all reported their best October sales ever. Honda sales rose 6 percent, backed by a 30 percent gain in sales of the CR-V, the nation's top-selling SUV. Subaru benefitted from strong sales of the Outback small SUV, while Nissan got a boost from demand for the Frontier small pickup.

Hyundai's sales dropped 6.5 percent to 50,081. While sales of its Tucson SUV rose 44 percent, that wasn't enough to offset sagging sales of its Sonata and Elantra sedans.

Volkswagen, which has struggled for months with older products, saw sales jump 8 percent in October after the arrival of the new Golf small car.

Sales should remain strong through November and December and close out the year at 16.5 million, up 6 percent from 2013, Toprak says. He says buyers should look for big discounts in small cars as well as full-size trucks and SUVs for the remainder of the year.

"At the moment, the picture is rosy. Sales are doing well, incentive levels appear to be higher but still in check," Toprak said.
"Things are in a pretty healthy

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GM Saves Bats to Help Environment

An adhesive used in production of the 2015 Chevrolet Corvette Stingray may help preserve a threatened bat species in North America.

General Motors found that when processed, the adhesive can serve as a stalactite in artifibat caves, said spokesperson Sharon Basel.

International bat experts from such non-governmental organizations as Bat Conservation International and the Organization for Bat Conservation are reviewing the application.

White-nose syndrome, a deadly fungus appearing on the muzzle and other parts of hibernating bats, has killed more than 5.7 million bats to date in the U.S. and Canada, Basel said. Bats with the disease act abnormally and wake from hibernation too frequently, leading to death.

> "...many bat species could face extinction."

- Rob Mies. **Bat Conservation**

There is no cure for white-nose syndrome, but remedies like nontoxic fungicides and artificial bat caves show promise, Basel said.

Saving bats is important because they contribute to the overall health of the environment. A single bat eats up to 5,000 insects a night, which means farmers can use fewer pesticides. They are also pollinators that help repopulate plants prevent more bats from contracting white-nose syndrome while they're hibernating," said Rob Mies, executive director, the Organization for Bat Conservation.

"Researchers are working around the clock to find a way to stop the transmission from occurring in caves. This disease is occurring at a rapidly escalating rate and if a solution is not found soon, many bat species could face extinction."

Artificial stalactites give hibernating bats more surface area from which to hang, thus spreading them out around the cave, Basel said.

Creation of the stalactite is simple. Robots that apply a structural adhesive that helps join Corvette body parts are purged regularly to keep the adhesive applicator clean and free of dried material. This dried gunk is shaped just like a stalactite, and its use in artificial bat caves avoids sending it to landfills.

Bat projects have been a part of GM for several years, examples of GM's industry-leading 26 certified wildlife habitat programs and penchant for creative recycling, Basel said.

The company also creates bat houses out of scrap Chevrolet Volt battery covers that can hold up to 150 little brown bats each. John Bradburn, GM global manager of waste reduction, came up with the reuse idea, transforming the difficult-to-recycle material into nesting structures.

So far, 232 of these bat houses have been installed on GM properties and in other private and public lands in the United States. A tweak of the design has led to 368 specially designed structures to serve wood ducks, owls, bluebirds and scaly-sided mer-



Battery cover is now a bat house.

gansers – an endangered species. "We think of waste as just a resource out of place and work

hard to keep materials in use,' said Bradburn.

"Just like our stalactite concept or our bat houses, we seek out creative reuse projects that touch other elements of sustainability such as community engagement and wildlife preservation."

GM often works with local youth through schools, clubs and recreation centers to put the finishing touches on the nesting boxes, Bradburn said.

"It's important to get kids involved in these projects, helping them to see things not as they are, but what they can be," said

TrueCar President Suggests Chrysler, VW Combine Forces

CONTINUED FROM PAGE 1

half of industry revenue comes from pickups and utilities," Krafcik said. "Cars are about 33 percent, even though they account for about 43 percent of units sold. Remember, the average price, and I am talking about average, is about \$40,000. The 2014 F-150, which is at the end of a very long product cycle, goes on

average for \$42,000.' And these numbers reflect total revenue of about \$520 billion, Krafcik said, which he and his colleagues at TrueCar believe are a better proxy of industry profitability.

"Our thesis is that if the industry average mix, in terms of total revenue, is 20 percent pickups, 30 percent cars, 30 percent utilities and 20 percent premiums, that is a good footprint for an automaker's portfolio.

Krafcik said an examination of automakers' portfolios shows how some sort of merger or cooperative agreement could help create a combined, more balanced portfolio for both Chrysler and Volkswagen.

He said that Volkswagen Automotive Group (VAG) has a very unbalanced portfolio. In 2014, VAG should have sales of about \$21 billion. Of that sum, about \$13 billion comes from premium vehicle sales.

"When people hear 'Volkswagen Automotive Group' they tend to forget that VAG includes Audi and Porsche," Krafcik said. "VAG has no trucks in its portfolio and not much revenue from utilities.

"If you look at Chrysler, its revenue should be about \$66 billion this year. Of that, \$12.7 billion comes from cars, \$17.8 billion from pickups, \$34 billion from utilities and only \$1.5 billion from premiums. That's mostly Maserati."

Krafcik said he has no insider information on Chrysler's future plans, but noted that company CEO Sergio Marchionne has said in the past that there is room for more mergers in the auto industry's future and that Chrysler likes to keep its options open.

Krafcik likened Chrysler to an atom with a nucleolus looking for a covalent bond.

'That's all the chemistry I know, but if you combine VAG with Chrysler, you end up with a much more balanced portfolio,' Krafcik said.

"If you look at Ford in 2014 with \$20 billion in revenue from cars, \$32 billion in pickups, \$27 billion in utilities and \$4 billion in premiums, those numbers add up even better than Chrysler's. But Ford, for various reasons, would never look for some sort of merger."

Krafcik said that of the Detroit automakers, GM's portfolio is the most balanced and Toyota has an even more balanced portfolio.

"Really, by breaking the market down into four segments, you create a Rorschach test of the industry," Krafcik said. "The guestion becomes how do you get the ideal mix of vehicles. It's very difficult and no automaker - either foreign or domestic - has the perfect balance.

"But it makes sense for VAG and Chrysler to combine forces. VAG gets access to the U.S. pickup market and Chrysler gets access to the premium market. It's not perfect, but no automaker is perfect."

Achieving this balance is difficult, Krafcik said, because during the recent economic crisis, automakers did a pretty good job of shedding excess production capacity. So companies need great production flexibility, he said, to shift one plant from, say, cars to utilities.



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GM Delta Plant worker puts together an Acadia in Lansing.

GM Will Invest \$63 Million to Expand Lansing Delta Plant

General Motors will start construction by the end of the year on a \$63 million expansion of the Lansing Delta Township facility.

The expansion will add nearly 263,000 square feet to the facility that produces the Chevrolet Traverse, GMC Acadia and Buick Enclave large crossovers.

"This announcement is the latest example of our ongoing efforts to strengthen key plant capabilities," said GM North America Manufacturing Vice President Cathy Clegg.

"We're committed to producing the highest quality and safest vehicles in the market, which will help us earn customers for life. This is why facility investment is so important.

The expansion is part of the nearly \$300 million in Michiganbased investments that GM CEO Mary Barra referenced in a speech last month at the Detroit Economic Club.

Opened in 2006, Lansing Delta Township Assembly is GM's newest plant in North America, blending best practices and the newest technology in one facility, said Clegg. It was the first automotive manufacturing facility in the world to be a Gold Certified Leader in Energy and Environmental Design (LEED).

'UAW members have a proud history of building quality vehicles in the Lansing Delta Township plant and they look forward to the changes and upgrades made possible by what workers and management are able to achieve by working together," said UAW Vice President Cindy Estrada, who directs the union's national General Motors Depart-

"The investment in the plant and in UAW Local 602 members means workers will have an updated environment in which they can continue delivering quality workmanship for years to come.

The expansion will add roughly 28,000 square feet to general assembly and more than 181,000 square feet to the body shop for the newest generation of robotics and lean flexible tooling.

A 54,000-square-foot addition to the paint shop will allow use of improved sealers and coatings to increase corrosion resistance.

A view of Lansing Delta Township by the numbers:

- Year opened: 2006;
- Employees: 3,295 (3,058)hourly, 237 salaried);
- Union: UAW Local 602;
- Facility size: 3.4 million square feet, including the stamping facility.

Since 2009, GM has announced nearly \$11.2 billion of investment in U.S. facilities, including approximately \$1.1 billion so far this year.

"GM's major investment is yet another exciting chapter in the story of Michigan's economic turnaround," Gov. Rick Snyder said.

"We've maintained a laser-like focus on creating an environment in which job providers can grow and thrive. That means more and better jobs for families and long-term opportunities for our children.

"We appreciate GM's ongoing commitment to Michigan and its contributions to the overall vigor of our auto industry. This announcement is great news for mid-Michigan and our entire

King Cobra 'Has Serious Bite' - Ford Racing's Jamie Allison

CONTINUED FROM PAGE 1

performance bushings to improve traction and put optimum power to the ground under hard acceleration.

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Super Pack is a 2.3L Twin Vortices Series (TVS) supercharger assembly, co-developed and cobranded by Ford Racing and ROUSH Performance.

Accompanying the supercharger is a six-rib belt drive system, intake manifold, electronic throttle body, air inlet system, fuel rail and high-flow fuel injectors, complete air-toliquid intercooler system and the Ford Racing performance computer calibration.

Ford Racing recently took an early version of the King Cobra

package on a 2015 Mustang to Michigan's Milan Dragway, where the car proved its performance capabilities with a "stunning" quarter-mile elapsed time of 10.97 seconds, Allison said.

Ford Racing chose the name King Cobra for this parts package because of its long association with high-performance Ford vehicles.

The King Cobra moniker was first introduced by Carroll Shel-The key component of the by in 1963 for the high-performance Cooper Monaco sports racing cars he built with midmounted, 289-cubic-inch Ford V8 engines.

> Ford used the name again in 1970 for an aerodynamic prototype NASCAR stock car, based on the Ford Torino that never raced.

> The most well-known King Cobra was an option package that could be equipped to a 1978 Mustang II, which was the first Mustang to sport the "5.0" designation for the metric equivalent of the V8 engine's 302-cubic-inch displacement.



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Big or Small, SUVs Rule the Roost

By DEE-ANN DURBIN AP Auto Writer

DETROIT (AP) - Once a hulking symbol of American excess, sport utility vehicles are quickly becoming the world's favorite way to get around.

It's a surprising rebirth for a vehicle that was the subject of obituaries when gas prices spiked in 2008.

Automakers won back customers by making smaller, more fuel-efficient SUVs that also appealed to newly wealthy buyers in Asia and South America and former skeptics in Europe.

Indian drivers want SUVs to navigate rough roads. In China, they're a status symbol. European and American Baby Boomers buy SUVs because they're easier to climb in and out of. Upwardly mobile Brazilian families like their spaciousness.

Cheaper subcompacts like the Renault Duster are bringing in customers who couldn't afford SUVs before.

Earlier this year, SUVs overtook four-door sedans for the first time as the most popular vehicle for individual buyers in the U.S. By 2018, analysts expect China to be the biggest market for SUVs in the world.

The SUV genie is out of the bottle. They've been discovered by enough people that you'll never put them back," says Karl Brauer, a senior analyst with the car buying site Kelley Blue Book.

Global SUV sales rose 88.5 percent between 2008 and 2013, to 15.7 million, according to IHS Automotive. That was three times faster than auto sales as a whole. By 2016, IHS predicts annual SUV sales will total 20.1 million, or about one of every five vehicles sold.

Automakers are finding some surprising converts. France where environmentalists used to roam the streets slashing SUV tires – is second only to China in the growth of SUVs.

Parisian Laurent Azoulai, 58, bought an all-electric subcompact SUV – the BMW i3 – in July.

"I used to have Mercedes and Renaults but I liked this because I only need it for city driving," he said. "It's small, and it's electric, and I can't stand pollution.'

Shrinking the SUV - and making it more fuel-efficient - was the key to saving it. In 2008, less than half of SUVs sold worldwide were small, and customers had fewer choices. Twenty percent were large SUVs like the eightpassenger Cadillac Escalade. which defined the segment decades ago but had limited outside audiences North America.

Seeing the unmet demand, companies started making small SUVs that were even more nimble and efficient. Subcompact SUVs like the Chevrolet Trax which is shorter than a Toyota Corolla – were born.

It worked. Sales of small and subcompact SUVs like the Toyota RAV4, Buick Encore and Ford EcoSport have more than doubled worldwide since 2008. New subcompact SUVs from Jeep, Honda, Fiat and others will arrive in showrooms soon and keep the growth going. Small SUVs now make up 58 percent of all SUV sales worldwide.

The new crop of tiny SUVs is small enough to appeal to buyers in emerging markets but nice enough for downsizing buyers in Europe and North America. That's good for automakers, who save money by designing one vehicle that suits many different customers.

Owners who switch have a hard time going back to cars. Mo Mard, 56, a retired investment banker who lives in O'Fallon, Mo., drove a 2003 Toyota RAV4 for 11 years. Six months ago, she traded it in for a Honda Accord

sedan, thinking she'd like something a little sleeker.

She was immediately sorry. Mard missed sitting up high, and she wanted more room for her garage sale treasures. She also found it harder to ferry around her 90-year-old mother, who has trouble getting in and out of cars. In September, she traded the Accord for a Honda CR-V.

"I'm back up higher, so I feel better," she says.

With smaller size comes better fuel economy, another lure for buyers. The Trax is expected to get 34 mpg on the highway, better than many midsize cars. The diesel-powered version of the Ford Escape, called the Kuga, gets better fuel economy than a Toyota Prius hybrid.

Three decades ago, bare-bones SUVs like the Toyota 4Runner

and Ford Bronco were mostly used by off-roaders. They had more utility – and less refinement - than most drivers needed.

The seven-passenger Ford Explorer, introduced in the 1991 model year, changed that by emphasizing style and comfort.

The Explorer - prematurely laid to rest by some critics last decade - is now Ford's most-exported vehicle. Ford expects to make around 280,000 Explorers this year at its 90-year-old plant in Chicago.

Around 40,000 of those will be exported to Canada, Mexico, China, South Korea and the Middle East. Last year, Ford started making Explorers in Russia to meet growing demand there.

"It's the common link," IHS analyst Carlos DaSilva says. "It's the car everybody wants.'



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