# **Tech Center News**

WARREN, MICHIGAN

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MAY 25, 2015

## **Detroit 3 Looking for Next Generation of Auto Designers**

by Jim Stickford

The auto industry is always looking for a few good men and women with the skills to create the next great car. Which is why representatives from Ford, Fiat Chrysler and GM were at the 2015 Automotive Design and Engineering Career Expo, which was held at Macomb Community College on May 20 and 21.

The Expo got its start back in 2006 when Harry Istok – a teacher in the Utica Community School System – and GM Design Sculpting manager Greg Cummings first set up a special display showing off just what car designers do.

As the years went on, Ford and Fiat Chrysler also sent vehicles and people to talk about car design to what became an annual event.

This year, for the first time, the expo was held at MCC's Warren campus.

"Harry Istok and Greg Cummings approached us and asked if they could hold their event here," said Robert Feldmaier, director of the Center for Advanced Automotive Technology at MCC. "I said yes. The center is funded is one of 42 advanced technical centers, or ATC, across the country. ATCs receive their funding from the National Sci-

agriculture. We are automotive and our purpose is to help educate the next generation of automotive technicians. So the expo is something perfect for us. And, at the very least having it in our ple's heads. They've been lucky in the past with weather, but this year it's been cold outside.'

Feldmaier said that by connecting with high school and middle school students today,

things like marine biology or expo center puts a roof over peo- they can be made aware of their education options and learn just what schools like MCC and the Center for Creative Studies can do for them in the future.

CONTINUED ON PAGE 2



ence Foundation. Some are for GM's Greg Cummings with students Tyler Trout (left) and Anthony Theut. at MCC.

2016 Camaro Made to be Sleeker, Sportier and Skinnier Sometimes things are absolute-

ly worth the wait. The sixth-generation Chevrolet Camaro revealed May 16 "offers higher levels of performance, technology and refinement and is designed to maintain the sporty car segment leadership earned over the past five years," said GM spokesman Monte Doran.

The Gen Six Camaro provides a faster, more nimble driving experience, enabled by an all-new, lighter architecture and a broader powertrain range, Doran said. Six all-new powertrain combinations are offered, including a 2.0L Turbo, an all-new 3.6L V6 and the

LT1 6.2L V8, which is SAE-certified at 455 horsepower and 455 lb-ft of torque - for the most powerful Camaro SS ever. Each engine is available with a six-speed manual or eight-speed automatic transmission.

Camaro's leaner, stiffer platform and slightly smaller dimensions are accentuated by a dramatic, sculpted exterior, Doran said. Meticulously tuned in the wind tunnel, the exterior contributes to performance through reduced aerodynamic lift for better handling while enhancing efficiency.

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The sixth-generation Camaro has been introduced to the public.







### **Club GM Cadillac Raffle Helping** March of Dimes

Club GM is holding a raffle to help the March of Dimes, with the prize being a 2015 Cadillac ATS.

The vehicle was donated by UAW-GM, and 100 percent of the proceeds is going to the March said Club of Dimes, GM spokesman and chairman Ardin Hammel.

The cost of a single ticket is \$30, Hammel said, but the discount price for three tickets is \$60.

The drawing takes place on June 10, athe UAW-GM Center for Human Resources on 200 Walker Street in Detroit.

Hammel said tickets may be purchased at the Club GM store locations - first floor of the VEC building at the Warren Tech Center, open from 11 a.m. to noon Monday through Friday; and Building B at the GM Powertrain global headquarters in Pontiac next to the GM powertrain museum.

This store is open from 11 a.m. to 1 p.m. Monday, Wednesdays and Friday.

For more information on the raffle and how to buy a ticket, call Katie Murphy at 586-441-8670. Or you can contact via at katherine.murphy@gm.com by email.

### **Record 34 Million Recalls for Takata Air Bag Defects**

Under pressure from U.S. safety regulators, Takata Corp. has agreed to declare 33.8 million air bags defective, a move that will double the number of cars and trucks included in what is now the largest auto recall in U.S. history.

The chemical that inflates the air bags can explode with too much force, blowing apart a metal inflator and sending shrapnel into the passenger compartment. The faulty inflators are responsible for six deaths and more than 100 injuries worldwide.

The agreement adds more than 18 million air bags to existing recalls, covering both the passenger and driver's side. The recalls of passenger-side air bags, previously limited to highhumidity states along the Gulf Coast, are now expanded nationwide by 10.2 million vehicles. A nationwide recall of driver's side air bags was expanded to include an additional 7.9 million vehicles. "We know that owners are worried about their safety and the safety of their families," said Mark Rosekind, head of the National Highway Traffic Safety Administration, as he announced the agreement. "This is probably the most complex consumer safety recall in U.S. history." Safety regulators sparred with Takata for the past year over the size of the recalls and the cause of the problem. For the most part, the air bag maker refused to declare the inflators defective even questioned the and

2015 Chevrolet Sonic

2015 Fiat 500

2015 Ford Fiesta

## Fiat Chrysler Leads KBB's 'Cool Cars Under \$18,000' List

Its hard to define cool, but, Kel- 2015 Jeep Renegade is an all-new *ley Blue Book* knows cool when it sees it.

Kelley Blue Book's KBB.com (www.kbb.com) named several vehicles from Ford, GM and Fiat Chrysler to the list of the 2015 "10 Coolest New Cars Under \$18.000." KBB named the Jeep Renegade, the Chevy Sonic, the Ford Fiesta and 2015 Fiat 500 to the list.

In its review of the 2015 Renegade, KBB editors wrote, "the

model from the iconic off-road brand. That alone would make the Renegade a big deal, but its importance goes beyond just being The Next New Thing. This baby Jeep is the brand's Next Big Thing. The Renegade marks Jeep's foray into the emerging subcompact crossover-SUV segment, where it competes with the also-new Honda HR-V, Mazda CX-3 and Chevrolet Trax. Like those vehicles, the Renegade is practi-

cal, efficient and offers surprising safety and tech features. Its small size makes it at home in crowded cities, and its sub-\$19,000 starting price is highly attractive."

KBB editors also had nice things to say about the 2015 Ford Fieasta. They wrote, "The 2015 Ford Fiesta is part of the elite segment of the subcompact market that includes the Honda Fit, Tovota Yaris and Chevrolet Sonic. Sailing into its last year before a full redesign, there aren't a lot

of changes. That's OK, as we're smitten with its slick European looks, excellent fuel economy, and fun-to-drive nature.'

Editors also had kind things to say about the 2015 Sonic, writing "Chevrolet's 2015 Sonic subcompact sedan and hatchback are not the division's smallest cars (that accolade goes to the tiny Spark micro car), yet as the old saying goes, good things come in

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### **Thinner than Egg Shell? Not Really**

One can never be too careful. At least that is the lesson GM spokesman Daniel Flores learned when he released some information about the Design Dome located at the GM Tech Center in Warren

On May 14, GM officials announced that the company planned on investing \$1 billion to improve the infrastructure at the Tech Center as well as build some new ones.

Included with the press release announcing the decision was a fact sheet listing some general information about the Tech Center, including this one - "The Design Dome is 65 feet high with an aluminum shell a mere threeeighths of an inch thick - thinner than an egg shell."

This information was printed in the Tech Center News and there is only one problem - it's not true.

'The information was taken from a fact sheet that was printed in the 1970s," Flores said. "About an hour after the fact sheet was released to the press, I received a telephone call from an engineer. He said he didn't know where we got the information, but the aluminum in the Design Dome was not thinner than an eggshell. Overall, I've heard from several people pointing out that fact. What can I say, it was the 1970s, a lot of things went wrong then. It just shows again, that you can never be too careful when sending out facts."

### **KBB 'Cool Cars Under \$18,000**

CONTINUED FROM PAGE 1

small packages. In the Sonic's case, that include a roomy interior, excellent fuel economy and an affordable price tag.'

And KBB editors said that the Fiat 500 was something of a surprise. They wrote, "Many didn't expect a small Italian subcompact to do well in the U.S., but the 2015 Fiat 500 coupe and softtop cabriolet have confounded

CONTINUED FROM PAGE 1

Cummings said that he's been involved with the expo long enough that he's been able to hire a couple of students who visited it in the early years.

"I also keep in touch with some students who are now in college," Cummings said. "That's one of the main goals I have keeping in touch with students and guiding them to an automotive career that they and their parents might not even be aware of.'

Gabrielle Schulte, a public relations spokeswoman for Fiat Chrysler, said Fiat Chrysler supports efforts like the expo because it's important.

"I think it's a very big deal, connecting with middle school and high school students," Schulte said. "We want them to become aware of their options before they wander off to college. We want them to explore their options and put them on a path to automotive design."

Joe Dehner, head of Ram and Mopar Design, spoke to students at the expo. He said that one question he always gets from students is can a car designer make a living?

"I tell them that someone with a four-year degree can make about \$65,000 right out of school," Dehner said. "So, yes it's possible to make a good living making art and using your art skills. We turn simple sketches into design programs that cost hundreds of millions of dollars. I know people who put our renderings up on the walls of their living rooms. We have an impact and their is real enthusiasm for what we do."

And, Dehner said, it's important for Chrysler to be at events like the expo

"The toughest nut to crack," Dehner said, "is outreach, staying in touch with students. We're doing better, especially with the local students who are in our backvard. There are two great schools for automotive design right here in metro Detroit -Lawrence Tech and the Center for Creative Studies. But I also keep in touch with students from out of the region. I get emails and requests at random from people all over the country. I am 'penpaling' with a kid in Arizona who's very interested in automotive design as a career."

Michael Arbaugh, chief designer at Ford, said events like the expo matter because it can save students a lot of time.

graduated from Arbaugh Grosse Pointe High School in in the auto industry.



Chrysler's Joe Dehner shows off a model of the Dodge Viper at MCC.

1982. He wanted to be an auto designer, but his counselors at high school and college didn't alwavs know the best way for him to achieve his goal.

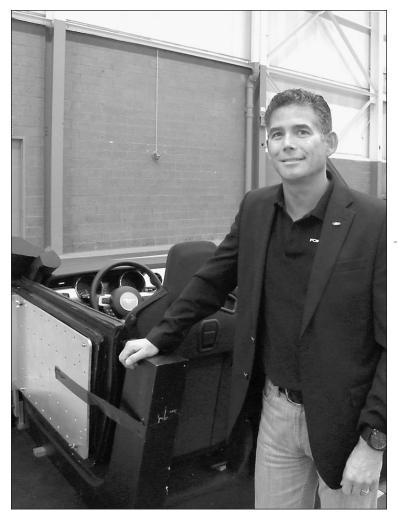
So, Arbaugh said, his education wasn't as focused on auto design as it might have been. He went to Michigan State and it took him about seven years to learn what he needed for auto design because he was more focused on engineering than he needed to be.

But there was a plus side to that, Arbaugh said. All that extra engineering learning has come in handy in coming up with designs that better take into account limits set engineering requirements.

Quran Buchanan, an electronic math modeler at Ford also spoke to students, telling them that he got his degree from MCC and that the skills he learned at the school have served him well.

"I've worked at Ford for 22 years," Buchanan said. "And in all that time, I've never been laid off. Getting my degree from MCC has given me 'critical' skills."

Buchanan said he was glad to come to the MCC event because it gave him the chance to meet with teachers there and advise them on their programs and how they can help students get the skills they need to get a good job



Michael Arbaugh of Ford talked about the value of academic guidance.

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the critics.

"Smaller than the Mini Cooper and Ford Fiesta, the 500's primary attraction are its playful attitude, impressive list of colors and features, attractive price and good fuel economy."

Of course, those not interested in cute also have a friend in the 500, that being the performanceoriented Abarth model. Even environmentalists have a seat at the table, thanks to the all-electric Fiat 500e."





## **Tech Center News**

MAY 25, 2015

COVERS THE TECH CENTER AND THE IMMEDIATE AREA

## 2016 Camaro: Sleeker, Sportier and Skinnier

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A driver-focused interior integrates class-leading control technologies, including a new Driver Mode Selector, configurable instrument cluster and a customizable ambient lighting feature.

"Redesigning the Camaro is thrilling and challenging all at once, but the secret is to offer something more," said Mark Reuss, General Motors executive vice president of Product Development. "For Camaro enthusiasts, it retains iconic design cues and offers even more performance. For a new generation of buyers, the 2016 Camaro incorporates our most innovative engineering ideas with finely honed performance and leading design.

Only two parts, Doran said, carry over from the fifth-generation Camaro to the new Gen Six: the rear bowtie emblem and the SS badge

To make it not only the best Camaro ever, but one of the best performance cars available. Chevrolet focused on three pillars of development.

Performance.

• Vehicle mass has been reduced by 200 pounds or more, depending on the model, creating a more nimble, responsive driving experience.

• Most efficient Camaro ever, with a new 2.0L turbo SAE-certified at 275 hp and 295 lb-ft - and delivers more than 30 mpg on the highway (GM-estimated), and 0-60 mph acceleration well under 6 seconds.

• Efficient performance in a new 3.6L V6 featuring direct injection, continuously variable valve timing and – for the first time – Active Fuel Management (cylinder deactivation), offering an SAE-certified 335 hp and 284 lb-ft of torque, for the highest specific output of any naturally aspirated V6 in the segment

• The most powerful Camaro SS ever, with a new 6.2L LT1 direct-injected Small Block V8 rated at 455 hp and 455 lb-ft of spirated V6 in the segment

• The most powerful Camaro SS ever, with a new 6.2L LT1 direct-injected Small Block V8 rated at 455 hp and 455 lb-ft of torque.

 Magnetic Ride Control active suspension available on Camaro SS for the first time.

 With improved handling and performance, the Camaro SS delivers better lap times than the fifth-generation's track-focused Camaro 1LE package.

Technology:

• New Drive Mode Selector, which tailors up to eight vehicle attributes for four modes: Snow/Ice, Tour, Sport and - on SS models - Track settings.

• Segment-exclusive, Interior Spectrum Lighting that offers 24 different ambient lighting effects on the dash, door panels, and center console.

Design:

• More athletic-looking, sculptured exterior that complements the tighter, leaner architecture and offers all-new, modern lighting signatures, including lightemitting diode (LED) technology.

 Greater emphasis on customer personalization with wider range of choices, including 10 exterior colors, five interior color combinations, lighting options and a full complement of dealeravailable accessories available at launch - including wheels, stripe packages and additional accessories.

 Aerodynamically optimized design that is the result of 350 hours of wind tunnel testing, reducing drag on LT models and improving downforce on SS.

• New, interior with shifter-focused center console, intuitive controls, flat-bottom steering wheel, and higher quality materials throughout.

• Unique control rings around the air vents used for temperature and fan speed adjustments, eliminating the need for conventional buttons.

"We have had the incredible

opportunity to meet literally thousands of Gen 5 Camaro owners who provided direct feedback on what they loved about their car and what they wanted for the next-gen Camaro," said Al Oppenheiser, Camaro chief engineer. "As a result, the 2016 Camaro builds on what made the current Camaro such a success with more power, more agile handling and more technology. We expect it will set the new benchmark in the segment, and give a new generation a reason to fall in love with Camaro.'

The Gen Six Camaro goes on sale later this year, offered in LT and SS models and will be built at Lansing Grand River Assembly.

The new Camaro enjoys lightweight architecture and chassis systems, Doran said.

Approximately 70 percent of the architectural components are unique to Camaro. Through extensive computer-aided engineering, structural rigidity was increased by 28 percent, while the body-in-white mass was reduced by 133 pounds.

In their quest to make the 2016 Camaro as lean as possible, engineers and designers evaluated every aspect of its architecture already the most mass-efficient ever created by GM - and supporting elements, saving grams here and pounds there that contributes to the car's lower curb weight.

As a result, the total curb weight for Camaro has been reduced by more than 200 pounds.

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The 2016 Camaro is brand new right down to its interior.

Significant weight savings came from using an aluminum instrument panel frame instead of steel, which saved 9.2 pounds. The use of lightweight components, including aluminum front suspension links and steel rear suspension links with lightening holes, in the new five-link rear suspension system contributed to a 26-pound reduction in the overall suspension weight.

With this architecture and more powerful engines, the Gen powerfully, dives into corners quicker, and accelerates faster than ever.'

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The Camaro features a new. multi-link MacPherson strut front suspension with Camaro-specific geometry, Doran said.

The double-pivot design provides a precise feeling of control, including more linear and communicative feel from the quickratio electric power steering system. At the rear, a new five-link independent suspension yields outstanding wheel control and reduces "squat" during accelera-

"From every angle, you'll never mistake this for anything but a Camaro," said Tom Peters, design director. "We've taken that iconic design and amplified its proportions to reflect a more dynamic driving experience - like the T-shirt on a muscular

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Macomb County Says Swim Safe the summer months ap-

As proach, extra precautions when engaging in swimming activities should be taken.

According to the Center for Disease Control and Prevention, drowning is the leading cause of injury death for children 1 to 4 years of age.

Keeping swimmers safe in the water is as simple as using approved life jackets/floatation devices, providing supervision water. close to swimmers and making sure everyone knows how to swim. When not in use, pools should has been reminding citizens to be secured with a barrier such as

locks/alarms on gates.

chlorine and other disinfectant levels in pool water to kill illnesscausing bacteria.

Children should wear appropriate swim diapers when necessary to keep the pool clean.

Additionally, take kids on frequent bathroom breaks and remind children not to swallow the

SAVE \$50 fencing or pool cover and use Remember to maintain proper

Last week was Healthy and Safe Swimming Week. The Macomb County Health Department

be safe.

### Arlington Manor Apartments Welcomes GM Expansion to Warren.

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## **Traverse Tells its Passengers to Buckle Up**

There's no excuse not to buckle up.

So you're running late to get the kids to soccer practice. You properly buckle them in the second row of your Chevrolet Traverse, jump into the driver seat, turn the ignition and pull away. Then you hear it. That unmistakable bing-bing chime reminding YOU to buckle up. There's a very good reason for the sound, said GM spokeswoman Rebecca White. It saves lives.

May 18 marked Michigan's 15th year as a state where failure to wear a safety belt is reason enough alone to be pulled over by law enforcement.

To commemorate the primary safety belt law and kick off a new year of safety belt enforcement efforts, Chevrolet is teaming up with the National Highway Traffic Safety Administration and the Michigan Office of Highway Safety Planning to support the Click It or Ticket campaign and will display the Click It or Ticket logo on the General Motors Renaissance Center office and hotel complex towers, White said.

In addition, OnStar advisors will remind drivers at the end of non-emergency calls to buckle up. The fine for failing to wear safety belt in the front seat can be as high as \$65 in some parts of Michigan.

Since Michigan's primary safety belt law was enacted 15 years ago, safety belt use has increased - it's currently about 93 percent - and crash fatalities have decreased about 35 percent, White said.

"Our goal is the safety of our customers," said Jeff Boyer, vice president, GM Global Vehicle Safety.

"With vehicles like the madein-Michigan Chevrolet Traverse that offer available features like



Forward Collision Alert, Lane Departure Warning and the industry's first Front Center Air Bag we prove that safety is of the utmost importance to us, both in our state and around the world."

The Traverse received a 5-star Overall Vehicle Score for safety, the highest awarded in NHTSA's New Car Assessment Program. Its industry-first Front Center Air Bag provides protection for both the driver and front passenger in the event of a side-impact collision.

"But the safety belt is the primary restraint for occupant protection," Boyer said, noting that if the first belt reminder is ignored, the cycle will repeat two more times.

"The reminder chime may be seen as a repetitive indication to buckle up, and we're OK with that because that's what it's designed to do."

According to the Insurance Institute for Highway Safety, safety belts saved an estimated 345 lives in Michigan in 2013, the most recent data available, White said.

For drivers and front-seat passengers, using a lap and shoulder belt reduces the risk of fatal injury by 60 percent in an SUV, van or pickup, and by 45 percent in a car

MAY 25, 2015

"Efforts to increase seat belt use in Michigan have been successful due in large part to the support of our traffic safety partners," said Michael L. Prince, director of the Michigan Office of Highway Safety Planning. "We thank General Motors for the company's steadfast commitment to encouraging drivers and passengers to buckle up."

General Motors is responsible for many improvements to the safety belt.White said.

Today, in the event of a crash, front safety belt pretensioners can help reduce slack in the seat belt.

Safety belt load limiters, combined with frontal airbags, can help limit the belt's force on the occupant's chest. And dynamic locking latch-plates may help also improve lower torso restraint and reduce force to the occupant's chest.

Since November 2014, Chevrolet Cruze vehicles sold to fleet customers offer the Seat Belt Assurance System, which won't allow the car to drive until seat belts are fastened.

## **GM Becomes Custodian of Cemetery in Hamtramck**

HAMTRAMCK, Michigan (AP) -Beth Olem Cemetery is like many aging, final resting places, with assorted tombstones in varying condition, sizes and styles, encircled by a brick wall and iron gate.

Yet surrounding it on all sides is an unusual neighbor: a massive automotive plant.

The serene, green oasis is enveloped by the steel and concrete structures and grounds of General Motors Co.'s Detroit Hamtramck Plant, which makes Chevrolet Volts, Cadillacs and other cars. To maintain plant security, public access to the cemetery is limited to a couple of days a year - typically Sundays nearest to the Jewish holidays of Rosh Hashanah and Passover and some special requests. This year, the opening around Passover was postponed a month until this past Sunday,

grave of her great-grandfather, Chlavno Cantor, who died in 1909. The connection was made through her daughter, Olivia Brodsky, who was working on a college genealogy project, then confirmed by an elderly male cousin.

"He said it was in the Cadillac plant," said Susan Brodsky, standing next to the headstone that read "Cantor" in English and the rest in Yiddish. "At first, I'm sitting there going like, 'Where? Where? What is he talking about?' Then I started Googling `old Jewish cemeteries in Detroit' and it was pretty obvious. ... This was it."

The cemetery's existence isn't widely known, but those searching online can find some information. Local historic and Jewish organizations as well as a weekly Jewish publication occasionally write about it, and some learned



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when a couple of dozen people showed up.

The 2.2-acre, 1,100-grave Jewish cemetery with burials ranging from the late 1860s to the late 1940s, has survived through historical quirks. The biggest was an agreement ironed out about 35 years ago to preserve the cemetery when GM got Michigan Supreme Court approval of its contentious bid to demolish roughly 1,500 homes and businesses, several churches and a hospital so it could build a new plant.

Visitors who clear GM security and drive about a mile around the plant are welcomed by an iron arch with partly rusted letters that reads, "BETHOLEM CEMETERY.'

Given the passage of time and infrequent access, cemetery officials say visitors with no connection to the deceased outnumber descendants. Still, Sunday's guests included Susan Brodsky, who saw for the first time the

about the cemetery opening from those websites and social media.

In the early 1860s, members of what's now called Congregation Shaarev Zedek secured the burial ground, according to a 1992 article published by the Jewish Historical Society of Michigan. Beth Olem's bucolic setting soon gained industrial neighbors as the auto industry ascended at the turn of the 20th century. The Jewish community moved in subsequent decades, and the cemetery had fewer burials as other cemeteries opened.

Ralph Zuckman is executive director of Shaarey Zedek's Clover Hill Park Cemetery, a suburban Detroit cemetery overseeing Beth Olem, which is also spelled Beth Olam and means "house of the universe." He said the synagogue shared oversight with other congregations in the 1980s but assumed full responsibility when it came time to negotiate with General Motors.

## **GM's Green Factory Builds** Green Car – Chevy Spark EV

Creating a green car goes be- its Baltimore plant by achieving a yond just building a vehicle. It extends down to even how that vehicle is built.

Chevrolet recently began selling the Spark EV to Maryland commuters able to take advantage of the state's robust charging infrastructure. Now the car's electric motor and drive unit are being manufactured in Maryland under a rooftop solar array in a newly LEED-certified building, said GM spokeswoman Sharon Basel.

The greening of the General Motors Baltimore Operations complex included the addition of 580 kilowatts of solar to the roof of its e-Motor building. Together, Basel said, with a 1.23-megawatt solar array on its grounds, 6 percent of the facility's electricity comes from renewable sources. Maryland-based Empower Energies installed the solar system.

The U.S. Green Building Council certified the building as LEED Silver for environmental upgrades such as the solar array, installing light-emitting diode, or LED, exterior lighting and using compact fluorescent lighting in production areas.

Employee efforts to further reduce the building's carbon footprint, Basel said, led to its surpassing the voluntary U.S. Environmental Protection Agency's ENERGY STAR Challenge for Industry, which requires a 10 percent reduction in energy intensity within five years. Baltimore joins 70 achievers in GM, which is the global leader of the challenge.

"Improving the energy efficiency of our nation's plants and buildings is critical to protecting our environment," said Jean Lupinacci, acting director of EPA's Climate Protection Partnerships Division. "GM is addressing this in

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15.5 percent reduction in energy intensity and is leading the way by making the buildings where we work, play and learn more efficient.'

Greg Martin, executive director of Global Public Policy, said the company views its sustainability activity as a way to improve the communities where it does business.

"We believe reducing our environmental footprint is good for the climate and good for our business," said Martin. "Wherever we can, we are reducing our energy use, powering our plants with renewable energy and conserving resources.'

Maryland Energy Administration recognized Baltimore Operations with its Game Changer award for a smart microgrid charging technology created and managed in partnership with TimberRock Energy Solutions and On-Star, Basel said. A solar array and solar EV charging canopy traps the power of the sun to create energy, which is used to charge the facility's fleet of Chevrolet Volts or stored in an integrated storage system that can support the grid.

"We believe the future is electric, and strive to ensure our manufacturing process reflects the clean efficiency of these vehicles," said plant manager Bill Tiger. We're always looking for better ways to power our future.'

The facility supports community-based organizations committed advancing environmental to awareness and education. Employees mentor local students in watershed quality and improvement projects and Baltimore Operations maintains a wildlife habitat certified by the Wildlife Habitat Council.









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#### determine precisely what is causing Takata's inflators to explode, but action needed to be taken immediately.

ed acceleration.

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conduct a recall.

could climb.

agency's authority to order it to

Takata and 11 automakers that

use its air bags, including Honda Motor Co. and Toyota Motor

Corp., will have to sort out which

vehicles are covered by the ex-

panded recalls. NHTSA said the

number of affected air bags

Before Takata, the largest re-

call in U.S. history was in 1980

when Ford Motor Co. had to fix

21 million cars and trucks with

automatic transmissions that

could slip into reverse. The Taka-

ta recall dwarfs last year's highly

publicized recall of 2.6 million

General Motors small cars for de-

fective ignition switches and Toy-

ota's recalls of 10 million vehi-

cles for problems with unintend-

Rosekind said the agency and

auto industry are still trying to

Takata's air bags use ammonium nitrate to inflate in a crash. But the chemical, which can be used to make bombs, is volatile. So far, testing has found that airborne moisture can get into the inflators and cause the ammonium nitrate to burn hotter than it should, Rosekind said.

He urged car owners who get recall notices in the mail should immediately make an appointment to get their cars fixed. Owners can key in their vehicle identification number at https://vinrcl.safercar.gov/vin/ to see if their car is part of the recall. The number is stamped on the dashboard near the driver's side windshield and also can be found on state auto registration documents.

It may take weeks before all the identification numbers are

entered into the database.

**Takata Recalls Hit 34 Million** 

On Feb. 20, NHTSA began fining Takata \$14,000 per day for failing to fully cooperate in the investigation.

That fine accrued to more than \$1.2 million before it was suspended Tuesday due to Takata's cooperation, NHTSA officials said. Other civil penalties are still possible, they said.

Still, it likely will be months or longer before Takata and other companies can manufacture all the needed replacement inflators. Inflators will be allocated to older cars and to high-humidity areas first, where people are most at risk, the agency said. The expansion will cost Takata millions of dollars.

Takata CEO Shigehisa Takada said in a statement that the action is a "clear path" to restoring the trust of automakers and drivers

"We are committed to continuing to work closely with NHTSA and our automaker customers to do everything we can to advance the safety of drivers," he said.

According to a statement released by NHTSA late last year, the following Detroit automaker vehicles have been recalled because of Takata airbag problems:

- 2003 2008 Dodge Ram 1500;
- 2005 2008 Dodge Ram 2500;
- 2006 2008 Dodge Ram 3500; 2006- 2008 Dodge Ram 4500;
- 2008 Dodge Ram 5500;
- 2005 2008 Dodge Durango;
- 2005 2008 Dodge Dakota;
- 2005 2008 Chrysler 300;
- 2007 2008 Chrysler Aspen;
- 2004 Ford Ranger;
- 2005 2006 Ford GT;
- 2005 2007 Ford Mustang; 2003 - 2005 Pontiac Vibe;
- 2005 Saab 9-2X.

This is a partial list and the NHTSA has stated that more vehicles will be named in the upcoming weeks.



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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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## **Full Throttle Restores Classic for Raffle**

Grace Centers of Hope, one of southeast Michigan's oldest and largest homeless shelters, is selling tickets for a chance to win a classic 1956 Oldsmobile Holiday Four-Door Hardtop during its annual Charity Car Raffle.

A total of 5,000 tickets will be available for purchase for a chance to win the white and turquoise restored car that is valued at \$25,000. Tickets are \$25 each with proceeds supporting the nonprofit's One-Year Life Skills Program for homeless men and women, said Schmitz.

"Many of the men and women we serve lack the skills, education, hope, spirituality and confidence to empower their own success," said Grace Centers of Hope CEO Pastor Kent W. Clark. "Our programs help return people to mainstream society with the tools necessary to gain a better foothold on life. That is why fundraising events like our charity car raffle are so important because the monies raised support programs that positively change individuals' lives."

The car was given a complete frame off restoration and mostly kept in its original condition with just a few exceptions. They include a modern Chevy 350ci fuel injection V8 with a turbo 350-auto transmission, a dual circuit brake master and cylinder booster system, upgraded front disc brakes, and mag wheels to give the car a more aggressive stance, Schmitz said. The car's interior was completely refurbished in an impressive blend of new and old that includes an original style with modern materials.

It took more than three years and 5,500 volunteer hours to bring the car to its current condition. Full Throttle, a group of roughly 45 members of the Troybased Kensington Community

### Tebis America Launches New Software System

Tebis America, a Troy-based software company specializing in CAD/CAM systems for design and manufacturing servicing the tool, die, mold, aerospace and automotive manufacturing industries, has announced the launch of its newest version 4.0 software.

The new release, said Tebis spokesman Ed Szykula, features a new visual design, intuitive access to the functions through self-explanatory icons and more feedback for the operator all without sacrificing tried and proven features.

"Our goal was to offer our customers a new user interface that provides excellent possibilities for interaction and is highly functional, as well as easy to work with. We're confident that Church, took on the job to overhaul the Oldsmobile. The group takes in, repairs and then donates vehicles to people in need within the church. It also provides free repairs to church member's cars and undertakes long restoration projects to benefit local charities.

"We are so very grateful to Full Throttle for their time and expertise on this project," said Clark. "This year's raffle would not have been possible without their help and the wonderful generosity of the anonymous church member who donated this beautiful car to benefit Grace Centers of Hope."

The drawing for the 1956 Oldsmobile Holiday Four-Door Hardtop will take place on Friday, Sept. 25 at the "Night of Hope" fundraiser at the Reserve, 325 S. Eaton, Birmingham. The event, which will be held from 6:30 p.m. to 10 p.m. and will feature a strolling dinner, live music, dancing and a silent auction. Tickets for "Night of Hope" are \$85 and will benefit the Children's Program at Grace Centers of Hope. Charity Car Raffle ticket holders do not need to be present to win.

The Oldsmobile also will be on display and tickets available for purchase at a number of events throughout the summer. For more information on the car, or to purchase a ticket for the Charity Car Raffle or Night of Hope fundraiser, visit www.gracecentersofhope.org or call 1-855-HELP-GCH. The purchase of a Charity Car Raffle ticket does not qualify as an eligible tax deduction.

Grace Centers of Hope provides a comprehensive range of programs and services to help in-



This classic Olds will be raffled off to raise money for Grace Centers.

dividuals and families overcome issues of homelessness, addiction, neglect, physical abuse, poverty and spiritual emptiness. One hundred percent of the nonprofit's revenues are generated through private support,

fundraising initiatives and its four thrift stores. Last year, Grace Centers of Hope provided more than 45,000 nights of stay for men, women and children who sought help from the nonprofit organization.



we have succeeded," said David Klotz, CEO of Tebis America.

The user interface features color blending of modern colors as well as an updated typography that characterize the interface's appearance. The familiar Tebis blue will continue to be used in the future to highlight the selected functions. Klotz said. The dark color scheme used for the display is designed to optimize daily work on the monitor, be easy on the eyes, and facilitate individuals' work, thanks to improved contrasts.

The status bar has been considerably reduced to provide maximized space for graphics, while the dialog design has been revised and adapted to align with verified knowledge and experience regarding ergonomics.

The new interface provides users with considerably more feedback than the previous version, Klotz said. Tebis Version 4.0 is expected to launch this summer. **TECH CENTER NEWS - WARREN** 



\*Prices are plus tax, title, plate, CVR and doc fee. Lease payments are plus tax. Amount due at lease signing includes \$995 down payment, 1'st month payment, 6% tax on rebates and down payment, CVR, doc, license plate, title and acquisition fees. Leases include 10,000 miles per year. Advertised payments based on Tier 1 credit approval. Must qualify for security deposit waiver. Prices and payments include Buick/GMC lease loyalty or Buick/GMC conquest incentive (see dealer for eligibility requirements). Pricing for Michigan residents only. Pricing subject to GM program changes. Pictures may not represent actual vehicle. Vehicles subject to prior sale. Prices good through 05/25/2015 unless manufacturer changes programs. Better than employee pricing applies to new Buick Regal and all demo vehicles.