Tech Center News...

WARREN, MICHIGAN

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Covers the Tech Center and the Immediate Area

JULY 25, 2016

900 Cars Grace Tech Center in Annual Employee Car Show

by Jim Stickford

The General Motors Tech Center in Warren officially opened up

That fact was celebrated at the annual GM Employees Tech Center Car Show on July 20, which is co-sponsored by UAW Local 160. This year's show was titled "60 Years of Innovation at the General Motors Technical Center".

Mark Reuss, General Motors executive vice president of Product Development, kicked off this year's show.

"There is not another car show like this one," Reuss said, "that celebrates not just GM product, but all kinds of vehicles. I also want to thank UAW Local 160 and all the retirees as well as GM employees who have put in the time and effort to make this show pos-

Reuss said that the Tech Center car show demonstrates the growth that GM has seen in the past few years. In fact, Reuss said, by the time next year's show rolls around, there will be considerable construction taking place at the Tech Center as new buildings are being added to the site, including a updated, modern design center.

"I couldn't be prouder of the company," Reuss said. "Events like this are all about the employ-

the 50th anniversary of the Camaro. GM brought that car out and it kicked Ford's rear end. That's worth celebrating."

Reuss said that one aspect of the Tech Center car show that he particularly likes is that it cele-

ees. And we're also celebrating brates the fact that GM actually makes cars.

> "A colleague of mine, Mark Bradshaw, said that in GM's past the fact that our job is to make cars was sometimes forgotten. Well we remember that fact now and just look at our products.

I've brought my 1963 Chevy Corvette split window coupe. I haven't had the chance to look at all the cars here because there are so many fine examples of Detroit product, but I did see a 1968 Pontiac Firebird that I liked. It had a leather interior, which was

unusual for the time, and it is really beautiful. Seeing these great cars is just fun."

Dave Small, president of UAW Local 160, was also on hand at the show.

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The 2016 Tech Center Employee Car Show enjoyed beautiful weather as those attending got the chance to enjoy the classic vehicles of Detroit's past.

Buick's Betting on SUV Models Pays Off

Buick's move to build SUVs has paid off. Small SUVs represent one of the fastest growing segments in the industry. U.S. sales of small SUVs have tripled since 2011, according to Polk registration data.

Buick Encore sales have accelerated this growth by nearly 30 percent since 2013, said GM spokeswoman Jennifer Korail, despite entries in the segment having more than doubled since the Encore hit showrooms in 2013. Today, one quarter of small SUVs on the road are Buicks.

"The Encore is a pioneering force in a segment hugely popular with customers, with one in four Small SUV owners in the U.S. today driving a Buick," said Duncan Aldred, vice president of Buick Sales, Service and Marketing. "The upcoming 2017 model doubles down on what's made it successful, like extensive softtouch interior materials not offered by the competition."

Through the first six months of



The 2017 Buick Encore has proven to be a great sales success.

than half of all sales coming from that market. In June, it reached 30 straight months of year-overyear sales growth, with more than half of new owners coming from outside GM brands.

When Buick announced it was 2016, the U.S. has become En- discontinuing the Verano, IHS an-

core's top market, with more alyst Tom Libby said that made sense because of the trend of the public preferring SUVs and CUVs.

> "This trend has been going on since the turn of the century, Libby said.

In July, Encore is on pace for

CONTINUED ON PAGE 12

AIAG Adds Harvath, Wagner To Board of Directors

The Automotive Industry Action Group (AIAG) has appointed Courtney W. Harvath, senior director, supply chain, Ryder System, Inc., and Jeffrey S. Wagner, corporate quality director, powertrain, and global quality director, Sealing & Gaskets Business Unit, Federal-Mogul Corporation, to its board of directors.

More than 20 executives from the automotive and transportation OEM and supplier community currently serve on the AIAG board, representing a cross-section of its member companies, said AIAG spokesman Greg Creason.

AIAG's board of directors is responsible for maintaining the organization's commitment to a seamless, efficient, and responsible supply chain by providing strategic direction and overseeing the organization's collabora- tion in the transportation industive effort to build and enhance try because it provides the only the industry's competitiveness, Creason said.

"AIAG is in a unique position to drive sustainable improvements within the automotive industry," said Harvath. "AIAG provides a robust platform for supply chain stakeholders of all sizes to effectively collaborate and ultimately drive change within the indus-

Harvath said that AIAG's ability to facilitate action-oriented work groups that develop new supply chain standards and best practices is paramount to evolving higher quality, stronger corporate responsibility, and more efficient supply chains.

"The AIAG leadership team and its network of industry volunteers are reshaping the automotive supply chain," Harvath said.

"AIAG is in a one-of-a-kind posi-

CONTINUED ON PAGE 9

Ford Moves Forward in Developing Apps

With more than 15 million abled apps by allowing them to SYNC-equipped vehicles on roads around the world today and 43 million expected by 2020, Ford is introducing a free tool for smartphone app developers aimed at making it easy and costefficient to develop in-car apps compatible with the company's SYNC 3 communications and entertainment system.

Downloadable from the Ford Developer Program website, Ford spokesman Alan Hall said the SYNC 3 AppLink Emulator is a software program that helps developers create AppLink-entest how their app will look and work on a SYNC 3 interface – without access to an actual vehi-

"The SYNC 3 AppLink Emulator makes app development far more accessible to the developer community," says Dave Hatton, manager of mobile app development, Ford Connected Vehicle and Services. "We expect this tool to open the door to a host of new and exciting car-friendly apps from developers, both big and small, around the world."

The emulator allows a smart-

phone to connect to the developer's computer – just like it would normally connect to SYNC 3. The software platform then mimics SYNC 3 by connecting to the app running from the developer's phone. The user fine-tunes the look and functionality of the app. then can instantly see how the created features would appear on the in-vehicle touch screen.

The software allows developers to set certain conditions such as vehicle speed, location, temperature and mileage - to

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Ford's SYNC 3 AppLink Emulator develops apps for the car company.

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31201 Chicago Road South Warren, Michigan 48093

586-939-6800

Contact us: Info@TechCenterNews.com

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Concours Auction, Classic Car Show **Coming Soon**

Concours d'Elegance of America is holdings its Michigan show on July 29 - July 30, at the Inn at St. John's in Plymouth.

The Concours d'Elegance has its roots in 17th century France, when the aristocracy would parade their horse-drawn carriages through the parks of Paris, said Diane Flis-Schneider, Executive Director, Concours d'Elegance of America.

With the advent of the automobile, Concours d'Elegance events evolved into competitions between automobile manufacturers, custom coachbuilders. and owners, whose vehicles were judged on the beauty of their design.

The Concours d'Elegance of America originated at Oakland University's Meadow Brook Hall, the historic home of Matilda Dodge Wilson, widow of automotive pioneer John Dodge. In 2011 this world-class event moved to the grounds of the Inn at St. John's in Plymouth.

In keeping with our tradition of showcasing classic, rare and magnificent automobiles, the car selection committee continues to invite a unique collection of vehicles to be displayed. What was once a one day show is now an esteemed lifestyle event with many activities throughout the weekend. Including the Concours Invitational Art Exhibition featuring fine automotive artists from around the world and the Mode du Concours fashions compliments of Productions

With the support of our board of directors, collectors, volunteers and patrons the Concours is proud to give back to the communities who have supported this event.

Throughout our 38 years the Concours d'Elegance of America has been dedicated to philanthropic efforts contributing over \$5M to: the restoration of Meadow Brook Hall, JDRF (Juvenile Diabetes Research Foundation) and many other charitable organization in our community, Flis-Schneider.

Concours events include:

- Motor-coach tour beginning at 8 a.m. on July 29. The cost is \$125 per ticket and it is a guided tour of some of the most historically relevant, automotive and architecturally significant, places in Metro Detroit. Visiting sites such as the infamous Dodge Brothers' crypt, and a tour of the Dorothy Turkel House.
- The RM Sotheby's Motor City Auction preview. This will be held at the Sotheby's tent at the Inn at St. John's between 10 a.m. and 6 p.m. on July 29, Admission is free.
- Concours d'LeMons. This display of classic cars begins at 8:30 a.m. and ends at 1:30 p.m. on July 30. Admission is free.
- The RM Sotheby's Motor City Auction. It will be held at the Inn at St. John's from 11 a.m. to 4 p.m. It is open to registered bidders only.

GM Soars to \$2.9 Billion Second Quarter Profit

DETROIT (AP) - General Motors' second-quarter profit more than doubled to a post-bankruptcy record \$2.87 billion on a strong performance in the U.S., where the company saw sales fall after it cut low-profit sales to rental car companies. It raised its earnings guidance for the year.

The company earned a record \$3.6 billion pretax profit in North America, made \$500 million on its joint venture in China and even eked out a \$137 million profit in Europe, its first five years. But it lost money in South America due to economic woes and profits were nearly halved in international operations due to struggles in the Middle East.

Yet GM sees the good times continuing in the U.S., its main profit center, even though sales fell 4.4 percent during the first half of the year and its market share dropped a full percentage point to 16.6 percent, the lowest level since at least 1980.

Chief Financial Officer Chuck Stevens said the company's retail sales to individual buyers were up due to strong demand for high-profit pickup trucks and SU-Vs, plus the impact of redesigned vehicles such as the Chevrolet Malibu and Cruze sedans and the Cadillac XT5 SUV.

"Our focus is to drive profitable retail share," Stevens said. "I think the results speak for themselves.'

The profit was so strong that GM raised its full-year earnings per share guidance by 25 cents to \$5.50 to \$6. Investors agreed. GM's stock rose 47 cents, or 1.5 percent, to \$31.96 in midday trading July 21.

GM cautioned that the European profit probably wouldn't hold through the second half due largely to Britain's vote to exit the European Union. The company predicted that damage to the British Pound and uncertainty in Europe would cost GM up to \$400 million during the next six months.

Stevens said the company would take actions to mitigate the impact, including a change in GM's European manufacturing footprint.

The company also revealed that it spent \$581 million during the quarter - half in cash and half in GM stock - to buy Cruise Automation, a 40-person software company that is testing autonomous vehicles on the streets of San Francisco.

The Detroit automaker said it earned \$1.81 per share from April through June. Excluding special

New Executive at Art Van

Warren-based Art Van Furniture has named Neil Zimmer vice president of merchandising for Art Van PureSleep.

As Vice President of Merchandising, Zimmer will report directly to David Van Elslander, president of Art Van PureSleep. Zimmer will be responsible for overseeing all buying and merchandising activities, and will manage the company's buyers and support teams, said Art Van spokeswoman Diane Charles.

'We welcome Neil with an eye toward growth," said Van Elslander. "Neil's reputation as a creative and strategic leader, coupled with his specialized expertise and proven track record in the retail bedding space, will add the needed horsepower to help us expedite our already aggressive growth plan."

Zimmer joins Art Van PureSleep from Sleepy's, where he played an instrumental role in product and business development, as well as the growth of the retailer to more than 1.000 stores. He began his career in 1993 by launching his own futon and mattress business with five locations.





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The Chevrolet Silverado was GM's top seller for the first half of 2016.

Wall Street forecasts. Analysts polled by FactSet expected \$1.52 per share. Revenue rose 11 percent to \$42.4 billion.

GM was optimistic about the second half of the year despite troubles in Britain and increased incentive spending in the United States.

Early in July, GM's average spending on rebates and other discounts rose by about \$1,800

items, it made \$1.86, shattering to \$6,125 per vehicle, according to J.D. Power data obtained by The Associated Press. Incentives on the Chevrolet Silverado pickup truck rose 37 percent from July 2015 to nearly \$8,000.

> But Stevens said the increase was a temporary move to sell down outgoing 2016 models to prepare for 2017s. During the first half, General Motors spent less than the industry on discounts, he said.



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900 Cars Grace Tech Center in Annual Employee Car Show

CONTINUED FROM PAGE 1

"I'm glad to be here to represent the 2,000 current members of Local 160 and to represent the more than 5,000 retirees. This show gets done thanks to the work of so many people - hourly, salaried and retired GM employees. It's their work that makes this event such a huge success."

Small said seeing all the beautiful classic cars parked by the Tech Center's lake was a particularly nice touch.

This year's car show organizer was Jim Suzak who is a superintendent of Design Fabrication at the Tech Center.

Putting the 2016 car show was a privilege, Suzak said.

'I have a real enthusiasm for cars," Suzak said. "Being in charge is an honor because I get to work with employees who share that enthusiasm. This show allows all kinds of different employees to collaborate and express their love of cars."

Putting the show together takes a lot of time, Suzak said. They start in January. About 50 people volunteer their time to make the event possible. This year's show was a real success.

'We had about 800 or so cars pre-registered to be on display,' Suzak said. "That doesn't include the 'walk-ins' who have shown up today. Overall, I'd say there are more than 900 vehicles on display from past and present employees.

One of the employees who brought his classic to show off at the Tech Center show was Ken Joye, a liaison engineer at the Tech Center. He showed off his 1971 Chevy Chevelle Super Sport convertible to his friend and colleague David Roberts, also a liaison engineer at GM.

"I've owned my Chevelle for 30 years," Joye said. "I was about 30 when I got it, and I got because I always wanted one of these cars. I had a couple of buddies in high school who had Chevelles and just fell in love with the vehicle. This is the second Chevelle I owned. My first was not a convertible.

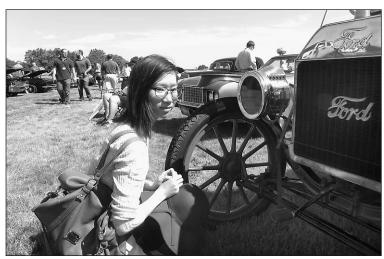
Joye said he is particularly proud of his car because when he got it, it was ready for the scrap yard.

"This was one rusted out basket case when I started restoring Joye said. "Most people would have junked it, but I didn't. And most people would have taken out its small block engine and put in a big block engine to try and resell the vehicle for an additional \$20,000. I didn't. I kept the small block engine when I restored it."

Joye said he takes his Chevelle to about a dozen shows a year.



Mark Reuss kicked of the 2016 GM Tech Center Employee Car Show.



Hannah Woo checks out the headlight on this 1911 Ford touring car.



Ken Joye shows David Roberts his 1971 Chevy Chevelle SS.

The Tech Car show also gave some GM people the opportunity to study the history of Detroit automobiles in a up close and personal way.

Hannah Woo, 25, works for SL Corp., which is helping GM design the headlamp of the future. She particularly enjoyed being able to inspect the headlamp of a 1911 Ford touring car.

went to the Rhode Island School of Design," Woo said. "I always wanted to work in the car business. So when I had the chance to work with SL, I took it. I love this show and I love being able to look at the Ford Touring car. It's the definition of a classic car and it has so many elements that are so different from a car today.

Alan Tomich, a metal model-

SUMMER SPECIAL!





This 1941 Cadillac is owned by Tim Spry.



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Bill Bryant owns this souped-up 1977 Jeep Cherokee Chief.

maker at the Tech Center, said he enjoyed to the chance to see Steve Westfall's 1967 Camaro RS-

"It's a nice car and I like the classic Camaro style," Tomich said. "I really like the pro-street look. I have a 1970 Camaro myself and I am currently working on restoring a 1936 Ford."

Scott Austin, an engineer in GM's Peformance Group, particularly liked the souped up 1977 Jeep Cherokee Chief owned by Bill Bryant.

"Look at the giant tires," Austin said. "They should be able to get that Jeep through the mud."





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Ford Continues its Efforts to Fight Against Breast Cancer

In its ongoing efforts to support the fight against breast cancer, Ford Warriors in Pink recently commissioned a series of surveys seeking to identify the top concerns and day-to-day challenges of patients in treatment, as well as to examine the state of awareness of the disease among American adults today.

The study was conducted as part of the Warriors in Pink More Good Days initiative, said Ford spokeswoman Anika Salceda-Wycoco.

Survey results indicate that maintaining their daily routines while going through treatment is a top concern of those battling breast cancer – second only to life expectancy. Activities patients say they need the most logistical help with include completing household chores, running errands and preparing balanced, healthful meals, Salceda-Wycoco said.

The study also reveals that few adults know how to provide the support patients need. While 98 percent acknowledge the serious health threat the disease presents, less than 60 percent are familiar with the day-to-day challenges those undergoing treatment face. Only 28 percent say they know how to best provide the support needed.

"What the results of the surveys tell us is that while most adults aren't sure how to support these patients, the majority – 75 percent – want more information on how to help," says Tracy Magee, Ford Warriors in Pink brand manager. "The insights give us an opportunity to build upon the resources we offer to ensure we respond to the needs of those undergoing treatment.

"Through our More Good Days initiative, we're striving to equip people with the knowledge and



Ford Motor Company's Warriors in Pink are continuing their work in helping those with breast cancer have more good days.

resources they need to help," adds Magee. "Ultimately, we want to give breast cancer patients what they deserve – more good days."

To date, Ford Warriors in Pink has granted more than 60,000 good day experiences – everything from free rides to treatment centers, to meal and errand scheduling – as part of its More Good Days initiative, Salceda-Wycoco said. Year two of the program aims to bring about even more good days by adding two new services in response to patients' most pressing needs.

First, it's working to help eliminate the hassle of grocery shopping and meal planning by collaborating with Green Chef – the first and leading national USDA-certified organic meal kit delivery service – to provide free organic meal kits to patients. To help alleviate another pressing daily concern patients have, Warriors in Pink is also working with the nonprofit Cleaning for a Reason to provide free assistance with household chores.

According to Michael Joseph,

founder and chief executive officer, Green Chef, food has the power to nourish not just our bodies, but also our souls. "We're looking forward to working with Warriors in Pink to help friends, family and caretakers provide healthy meals to the breast cancer patients in their lives," he said. "Home-cooked, organic meals make sense in terms of giving patients with a good day."

Debbie Sardone, president and founder, Cleaning for a Reason, understands the importance of having help around the house for patients going through treatment. "Cleaning for a Reason has been providing home cleanings to cancer patients for the last 10 years," she says. "We're so excited to work with Ford Warriors in Pink to bring this service to even more patients."

Ford Warriors in Pink will also offer free Jacki recovery garments to those who have recently undergone mastectomy surgery through select treatment centers and on the Warriors in Pink website, Salceda-Wycoco said. It will also continue working

with Meal Train – an online platform for organizing family and friends to provide meal deliveries, errand services, childcare, rides and more. More information about these services, as well as additional tips, tools and resources for providing good days, is available on fordcares.com.

Ford is building upon its long-standing Models of Courage program, inaugurating a new class of warriors in six cities across the country. These real-life role models – over 100 women and men who have coped with breast cancer in inspiring ways – will help create more good days by taking direct action to support those battling the disease in their communities. 2016 Models of Courage are based in Atlanta, Seattle, Miami, New York, Denver and Chicago.

To instill hope and help patients face their battles, these Models of Courage will share their stories throughout the year at national and community events, as well as in Warriors in Pink communications. People are encouraged to join the conversa-

tion and share their personal stories and insights on social media using #MoreGoodDays.

This month, Ford is introducing the 2016 Warriors in Pink collection of apparel and accessories to raise funds for breast cancer research and resources, Salceda-Wycoco said. New items include a vest, tunic, an adult coloring book and gold foil tattoos, along with best-selling favorites such as the annual women's scarf, warrior T-shirt and tote bag. One hundred percent of net proceeds benefit The Pink Fund, Susan G. Komen, Dr. Susan Love Research Foundation and Young Survival Coalition.

For more than 20 years, Ford Motor Company has worked to advance the conversation around breast cancer – fueling the spirit of those living with the disease while inspiring new generations of supporters. To date, Ford has dedicated more than \$130 million to the cause.

For more on Ford Warriors in Pink and to view the full 2016 accessories and apparel collection, please visit www.fordcares.com.



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Cooper-Standard Hires Couch in New V.P. Job

Cooper-Standard Holdings Inc. has appointed of Christopher E. Couch to the newly created position of vice president, innovation and product groups effective July 11. Couch reports to Keith Stephenson, executive vice president and chief operating officer, said Cooper Standard spokeswoman Sharon S. Wenzl.

With more than 20 years of global automotive manufacturing experience garnered through technical, strategic and senior executive roles at both automakers and tier one suppliers, Couch will lead Cooper Standard's i3 Innovation Process from idea inception to commercialization. Utilizing his expertise in business development and advanced engineering, he will work closely with core product line leaders to develop market strategies and work in tandem with Cooper Standard's global regions to execute these strategies in support of global customers.

"Our i3 Innovation Process has already spawned several break-through innovations, especially in material science and light-weighting," said Stephenson. "Chris joins Cooper Standard at a pivotal time, as his extensive experience in commercial development and product innovation will provide the technical leadership required to realize the full potential of the groundbreaking innovations."

Couch recently served as chief technical officer and global manufacturing v.p. at Lear Corp. in Southfield, where he evolved the company's technical direction. He joined Lear in 2013 as a senior executive responsible for advanced engineering, advanced manufacturing, advanced sales and cost optimization.

Camaro's History Informs Present

by Jim Stickford

The Chevy Camaro has a storied past going back 50 years. But Chevy isn't content to rest on that history.

The brand is spending 2016 honoring the Camaro's past while also celebrating its future.

Todd Christensen, head of Marketing for the Camaro and Corvette at GM, said that what's interesting about the Camaro is that its fanbase is diverse.

Our list of buyers include people who were around in the 1960s and 1970s, when the Camaro was first introduced," said Christensen. "But on the flip side, we have a lot of fans of the Camaro that became fans of the vehicle after the 2010 edition came out."

So while the Camaro has a great history, Christensen said, there is a whole generation of buyers who know the vehicle through the Transformers movie

"When I go to car shows, I see the new and younger Camaro fans as well as the older fans who first fell in love with the Camaro

in the 1960s and 1970s," Christensen said. "I get the impression, at least anecdotally, that the younger fans who might not have known the history of the Camaro have become exposed to the older editions. As a result the Camaro fandom is growing. I will say that the first generation Camaro has become very popular at car shows."

Christensen said that he in the past GM has had a very strong relationship with the makers of the Transformer movies, but can't say how many GM cars will be in the latest movie, which is currently being filmed in Detroit.

"I will say that the character Bumblebee is a major Transformer, and Bumblebee is still a Camaro," Christensen said. "The first Transformer movie really put the new Camaro on the map. It's hard to believe that film came out nine years ago."

The upcoming Woodward Dream Cruise provides GM with the perfect venue to celebrate both Camaro's classic history and the car's bright future, Christensen said.

Special events for the Dream Cruise Weekend (Aug. 18 -21) include:

- A celebration at and tours of the Lansing Grand River plant, where the Camaro is built, on
- "Camaros and Coffee" in Detroit, on Aug. 19.
- A special Camaro heritage display at Chevrolet's site for the Woodward Dream Cruise, on Aug. 20.

'Coming up with this promotion was a really a team effort," Christensen said. "But credit where credit is due. We did a lot of brainstorming, but the folks at the Lansing Grand River plant where the Camaro is made deserve extra praise."

Over the years there have been a lot of requests by people to see the Camaro being made, Christensen said.

The Lansing plant isn't a normally a public viewing facility, Christensen said.

But the folks at the plant asked if it was possible for a one-time public viewing of the manufacturing process.

More Air Bag Recalls Are Announced

DETROIT (AP) - Mazda and GM recently announced new recalls due to air bag problems.

Mazda is recalling almost 4,000 older small pickup trucks mainly in southern U.S. states to replace Takata air bag inflators. The recall covers passenger air bags in B-Series trucks made by Ford from the 2007 to 2009.

The recall is part of a massive expansion of Takata recalls announced in May. At least 11 people have died worldwide. Dealers will replace the inflators, but no timing was announced for re-

GM is recalling 308,000 older Chevrolet Impala sedans in the U.S. and Canada because the air bags might not inflate in a crash.

The recall covers Impalas from the 2009 and 2010 model years that were made before Feb. 10, 2010. GM said in government documents that the front passenger seat frame can rub against the wiring for a passenger detection sensor. Damaged wires might cut power to the

sensor, knocking out bags. Air bag warning lights will illuminate if the wires are chafed. But some gauges may not work. GM says it's aware of two crashes and two injuries that may be related to the problem. GM says it's aware of two crashes and two injuries that may be related to the problem. Dealers will add anti-abrasion tape to fix the problem. There's no schedule yet for when repairs will be made.



The 2007 Bugatti Veyron will be on display.

Lingenfelter to Display Rare Cars at Upcomimg Concours d'Elegance Show

neering will host a display while several vehicles from The Lingenfelter Collection at the 38th Annual Concours d'Elegance of America at the Inn at St. John's on Sunday, July 31, in Plymouth.

Ken Lingenfelter has been invited to show his 2007 Bugatti Veyron as well as a 1996 Vector M12 during the Concours event, said Lingenfelter spokeswoman Becky Shephard, which is being hard said.

Lingenfelter Performance Engiheld 10 a.m. to 4 p.m. on Sunday. Both vehicles are part of the 250vehicle Lingenfelter Collection.

> Lingenfelter, a board member for the Concours d'Elegance of America, and longtime auto enthusiast and collector, will also share talk about his vehicle expertise in a panel discussion on Pony and Muscle Car Valuation scheduled for Saturday, July 30 from 8:30 a.m. to 9:30 a.m., Shep-

BorgWarner Has a New EGR Valve

BorgWarner supplies its ad- of Hyundai and Kia vehicles." vanced exhaust gas recirculation Ioniq sedan and the Kia Niro crossover sport utility vehicle. These gasoline and hybrid vehigasoline direct-injected (GDI) Kappa engine, expected to drive a growing line-up of hybrid models from the automakers. said BorgWarner spokeswoman Katya Pruett.

BorgWarner's compact, optimized EGR valve contributes to the vehicles' lower emissions and 3 percent increase in fuel economy.

"Our years of gasoline and diesel EGR experience along with our deep engine system knowledge drove us to develop a new EGR valve designed specifically for the unique requirements of today's advanced gasoline engines," said Brady Ericson, President and General Manager, Borg-Warner Emissions Systems. "BorgWarner's new low-pressure EGR technology offers automakers a compact, reliable and costeffective method for improving fuel economy and reducing emissions, and is fast becoming the standard solution for gasoline hybrid propulsion systems. We are pleased to contribute our EGR technology to a growing list

regulating EGR Precisely (EGR) valve for the new Hyundai through a range of rpms and loads reduces high temperatures in the combustion chamber, enabling a variety of strategies to cles are powered by the 1.6-liter improve engine efficiency and fuel economy, Pruett said.

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"So they made it happen," Christensen said. "They are also putting on a Camaro-themed car show and have 650 vehicles registered. I am pleased to say that all the viewing spots have been taken."

Camaro, Christensen said, also has a lot of online things fans can view and more is expected by the end of the year.

To see what's been prepared people should go to the site camarofifty.com



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Jeep Makes Unique 75th Edition Vehicle

Sometimes to celebrate 75 years of something, you go back to the beginning. And that's exactly what Fiat Chrysler has done with the Jeep.

Since 1941, the Jeep name has symbolized a unique family of goanywhere, do-anything vehicles – first developed for military use, and after 1945, continually adapted for a wide variety of civilian applications, said Fiat Chrysler spokesman Todd Goyer.

The Jeep brand is celebrating its 75th anniversary in 2016, and to mark the occasion, a commemorative one-of-a-kind Wrangler 75th Salute concept vehicle is being created as a tribute to the brand's legendary history and military heritage,

"We are creating this unique Jeep Wrangler 75th Salute concept vehicle in celebration of the brand's legendary history, and to demonstrate that 75 years later, today's iconic Jeep Wrangler is instantly recognizable and clearly connected to the original Willys MB," said Mike Manley, head of Jeep Brand – FCA Global. "Since they were first produced in 1941, Jeep vehicles have been the authentic benchmark for off-road capability, having mastered more terrain, led more adventures and provided drivers more freedom than any other vehicle before or since."

The "function over form" of the original Jeep military service vehicles is evident in this unique concept vehicle, Manley said. The Wrangler 75th Salute concept – a modern interpretation of the Willys MB – is based on a two-door Wrangler Sport and highlights rugged functionality with heritage design cues, including the absence of B-pillars and doors. The exterior features an olive-drab color scheme that was first seen on military vehicles 75 years ago and is present throughout the Wrangler 75th Salute concept.

Features, including 16-inch steel wheels wrapped in 32-inch military non-directional tires, hood latches, a rear-mounted spare tire, steel front and rear bumpers with tow hooks and low back canvas seats, echo the original military Jeep vehicles. Other features include bronze commemorative fender badges.

The Jeep Wrangler 75th Salute concept vehicle is built on the same assembly line that has produced the Wrangler in Toledo, Ohio, for years, and is powered by a 3.6-liter Pentastar V6 engine and mated to a six-speed manual transmission, Manley said.



Fiat Chrysler presented 23 awards to the Company's North American strategic supplier partners at the sixth annual Qualitas awards ceremony held at Sound Board at Motor City Casino Hotel in Detroit on July 15.

The awards recognize suppliers that have shown extraordinary commitment to innovation, quality, continuous improvement and the company's Foundational Principles, said Fiat Chrysler spokeswoman Shawn Morgan.

Global Purchasing Officer for FCA NV and Head of Purchasing and Supplier Quality for FCA – North America Scott Thiele led the program addressing an audience of more than 1,000, outlining how the group is capitalizing on the Company's global footprint to support the five-year business plan.

"Today, we honored those companies that were dedicated to helping us achieve success through teamwork, innovation and an intense focus on quality," said Thiele.

"As FCA continues to grow globally, we want to work with our top supplier partners to bring the highest quality vehicles to drivers across the world."

Qualitas recognizes both production and non-production suppliers that not only demonstrate operational excellence, but that also have strong corporate values in areas such as diversity, innovation and sustainability.

The 2015 FCA US Qualitas recipients are:

- Body Quality Supplier of the Year and Overall Supplier of the Year Brose:
- Capital Equipment Quality
 Supplier of the Year FANUC
 America Corporation;
- Chassis Quality Supplier of the Year Piston Automotive;
- Electrical Quality Supplier of the Year SiriusXM;
- Engine Systems Quality Supplier of the Year – MANN+HUM-MEL;

• Interior Quality Supplier of the Year – Summit Polymers Inc.

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• Powertrain Quality Supplier of the Year – Guangdong Jongtu Technology Co. Ltd.;

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Scott Thiele

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- Services Quality Supplier of the Year – Xerox;
- ne Year Xerox;
 Diversity Supplier Develop-
- Foundational Principles
 Award: Logistics Cassens
 Transport Co.:
- Foundational Principles Award: Production – Bridgestone Corporation;
- Foundational Principles Award: Non-production – Snapon Business Solutions;
- Innovation: Production Prime Wheel Corporation;
- Innovation: Logistics Ann Arbor Railroad;
- Logistics Supplier of the Year AMPORTS Inc.;
- Supply Chain Management Supplier of the Year FLEX-N-CATE:
- Sustainability Supplier of the Year Metalsa, S.A. de C.V.;
- Technical Cost Reduction Supplier of the Year – Iroquois Industries Inc.;
- Tooling Analysis Group Supplier of the Year QCR Tech LLC;
- Overall Supplier of the Year. Recipients were chosen based on an evaluation of each company's External Balanced Scorecard performance in 2015, a system that evaluates performance in areas such as quality, delivery, cost, warranty and partnership as well as input from Fiat Chrysler's senior leadership.



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Tesla Announces Ambitious Plans on Product Creation

DETROIT (AP) - Electric car maker Tesla Motors is working on multiple new vehicles, including heavy trucks and buses that could be unveiled as early as next year.

Tesla CEO Elon Musk said the company also plans a compact SUV and "a new kind of pickup truck" to complement its existing fleet. Tesla currently makes a luxury sedan, the Model S, and a luxury crossover, the Model X. It plans to release a lower-priced car, the Model 3, next year.

Musk discussed the products in his much-anticipated "master plan" for the company, which was posted on Tesla's website the evening of July 20. It was Musk's second such manifesto; he released the first in 2006, when Tesla was first starting out and hadn't yet sold its first car, the Tesla Roadster.

Musk used a portion of the plan to defend Tesla's semi-autonomous Autopilot system, which can maintain a set speed and keep the car within its lanes and lets drivers take their hands off the wheel for minutes at a time. The government is investigating the system after a Tesla driving in Autopilot mode crashed into a tractor-trailer in Florida in May. The Tesla driver

Musk says it's important to deploy partial autonomy now because, when used correctly, it "is already significantly safer than a person driving by themselves."

"It would therefore be morally reprehensible to delay release simply for fear of bad press or some mercantile calculation of legal liability," Musk wrote.

He said Autopilot is still in "beta" testing mode, a term the company uses to decrease complacency for drivers and imply that the system will continue to be refined. But he said Autopilot went through extensive internal testing before it was introduced with a software update last October.

Musk also predicted there will be a "significant time gap" before true self-driving cars are approved by regulators. But Tesla is clearly preparing for that day. envisions small autonomous buses that can accommodate strollers and bikes and a shared fleet of Teslas that can eventually be summoned by a smartphone.

Musk also pushed for the combination of Tesla and solar ener-

gy company SolarCity. Tesla proposed buying SolarCity last month for up to \$2.5 billion. Shareholders must still vote on the proposal.

Musk, who is the chairman of both companies, envisions becoming a seamless provider of solar panels and Tesla Powerwall backup systems to customers to power their homes and electric cars. "We can't do well if Tesla and SolarCity are different companies, which is why we need to combine," he said.

But some investors and analysts have made clear that they're concerned about the deal's conflicts of interest. SolarCity is run by Musk's cousin Lyndon Rive. SolarCity's shares have risen 27 percent since the all-stock bid was made, to \$26.95. But Tesla's shares are up just 4 percent.

Tesla's shares rose 1 percent to close at \$228.36 July 20.

In his 2006 plan, Musk laid out Tesla's goal of using profits from its first car - the sporty Roadster, which went on sale in 2008 - to fund the development of a wider range of vehicles, including lower-priced family cars.

Tesla is meeting that goal. The company stopped making the \$100,000 Roadster in 2012, the same year it debuted its \$70,000 Model S sedan. Last year, it introduced the Model X SUV. And recently it began taking orders for the Model 3, a smaller sedan which will sell for \$35,000. Tesla says the Model 3 will go on sale at the end of 2017.

But there have been some stumbles. All three of Tesla's vehicles have launched after repeated delays, and there have been some early quality problems, like door handles that don't work.

Tesla also recently announced that vehicle shipments didn't reach projected levels in the second quarter. The company now expects to deliver around 79,000 vehicles this year, lower than its earlier forecast of 80,000 to 90,000. Tesla delivered 50,580 vehicles last year.

Musk didn't give a financial update in his plan. Palo Alto, California-based Tesla has never made a full-year profit in its 13year history, and it lost \$889 million last year. Musk has said he expects Tesla to make a profit in 2020, once the Model 3 is in full

Ford Developing New Apps

CONTINUED FROM PAGE 1

test how the app responds to each, Hatton. These customizable settings empower developers to make apps that deliver more personalized experiences for customers.

The free software emulator, with its ready accessibility, will help speed development, especially in markets where developers have limited access to vehicles or Ford's current method of SYNC-compatible app development - tabletop hardware units known as FordDev Technology Development Kits. Hatton said.

Ford makes the kits, also known as SYNC-in-a-box, available through a San Francisco lo-

Ford will host its third annual SYNC AppLink Developer Conference in conjunction with CTIA Super Mobility 2016, Sept. 7-9, in Las Vegas. Ford engineers will be on hand to explain the newest software tools for developing more personalized, vehicle-datadriven apps.

In addition, the Ford developer team will hold a hackathon, where developers can put into action what they have learned for a chance to win prizes, Hall

Past hackathons have attracted developers from around the world, including the United States, Canada, the United Kingdom, as well as from counties as far away as Brazil, Hong Kong and Japan.

"For Ford, embracing the global developer community and opening the door to innovation are critical aspects of our mission," said Hatton. "As a company, we look forward to the wave of innovation we expect to stem from our growing efforts - all part of the Ford Developer Program."

Launched in 2013, the Ford Developer Program invites app developers from across the globe to innovate along with the company in the automobile industry's first end-to-end developer ecosystem.

The program now has more than 15,000 registered users, Hatton said, and more than 90 AppLink-compatible smartphone apps globally. Spotify, AccuWeather, MLB.com At Bat and iHeartAuto are a few popular apps that now feature AppLink capability.

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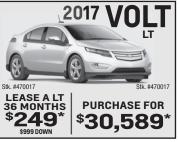
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Automakers Are Teaming Up on Cyber Security

DETROIT (AP) - Automakers are sharing information on cyber security threats and working together on ways to respond when hackers strike, under guidelines being developed by the industry.

Nearly all companies that sell cars and trucks in the U.S. have joined the Automotive Information Sharing and Analysis Center. The group announced Thursday that it's working on best practices to combat cyber threats.

Vice Chairman Jeff Massimilla of General Motors says the group has a common Internet portal and already is sharing information on threats. It's now working on guidelines that include developing secure hardware and software and how to respond to hacking incidents.

The group is holding a hacking attack drill on Thursday. It includes 15 automakers and covers 98 percent of the cars on U.S. roads. It began operating in Jan-

Ilitch School of Business Breaks Ground at WSU

DETROIT (AP) - A groundbreaking was held July 20 at Wayne State University in Detroit for a building that will be named after one of the city's top business leaders.

The Mike Ilitch School of Business is scheduled to open in 2018 to students and will be a part of Detroit's thriving Woodward Avenue corridor that will include a new professional hockey arena, entertainment district and light rail.

"Today's events represent the next important steps in bringing to life one of the most substantial demonstrations yet of my parents' love for Detroit and its people, and their hope and belief in its future," Ilitch Holdings President and Chief Executive Christopher Ilitch said.

Mike and Marian Ilitch last year announced a gift to help build the school near the new Red Wings arena and entertainment district now under development.

The donation included \$35 million and the use of the land for construction, as well as a \$5 million endowment from the family.

The family owns Little Caesars Pizza, the Detroit Tigers and Red Wings.

They founded the pizza chain in 1959. Little Caesars' headquarters and Comerica Park, where the Tigers play baseball, are along Woodward between downtown and Wayne State.

The new home of the Red Wings is under construction and will be called Little Caesars Arena. The 20,000-seat arena should open in 2017 after the Red Wings play a final season at Joe Louis Arena.

Construction is to start later this year on the business school, which will feature a glass facade, a cafe and indoor and outdoor

It is expected to serve more than 3,000 undergraduate and graduate students at Wayne State.

"This new home for our business school will create a beautiful and accessible gateway connecting Midtown and downtown Detroit for students, faculty and the community alike," said M. Roy Wilson, Wayne State president.

"It's a fitting and elegant design for a world-class business school made possible by entrepreneurs who throughout their career have been dedicated to opening up a world of opportunities for the people of Detroit."

AIAG Adds Harvath, Wagner **To Board of Directors**

CONTINUED FROM PAGE 1

real and effective connection among all stakeholders in the supply chain," said Wagner. "AIAG is a clearinghouse of information and best practices and has the experience on how to share those across the industry."

Both executives bring unique interests, experiences, and strengths to the AIAG board, Creason said.

Harvath's experience, which spans 14 years, includes strategic network optimization, operational implementation, transformational leadership, and LEAN process integration. He is a strong believer in developing efficient, cost-effective, and transparent inbound material flows and is the first logistics provider to have a seat on the AIAG board of directors.

"I'm very excited to bring a logistics and transportation perspective to the board of directors," Harvath said. "Logistics providers play an integral role in corporate responsibility, supply chain risk management, and overall quality, through the networks we design and manage, materials and vehicles that we transport, and stakeholders we engage. My goal is to engage logistics thought leadership across North America and evaluate how logistics providers can play a larger role in shaping our industry. AIAG has the ability to provide that platform."

Wagner's experience includes seven years headquartered in China, Creason said, where he led the growth of several product line technologies for Federal-Mogul, expanding his company's presence there from a virtual start-up to an operation with

double-digit year-on-year growth

Through a diverse 30-year career with Federal Mogul, he has held positions from engineering and sales to operations management, product strategy, and now quality. Wagner said he cares about the role that processes play in optimizing reliability.

"The transportation industry is extremely complex, so it is most important to identify the correct processes and make relationships to them," Wagner said. "The common denominator is that everything is connected to a process. The simpler the process, the more effective it is and the more quickly you can get to what's really important."

Through their service on the AIAG board, Creason said Harvath and Wagner look forward to impacting key industry initiatives like the structural changes in the upcoming new ISO/TS global quality standard and working to improve U.S.-Mexico border security and visibility.

"AIAG has the ability to provide the platform to address just about any issue that challenges our industry," Harvath said, "and it's an honor to be nominated to serve.'

"AIAG provides an overview at the grassroots level of what the industry requires and then complements that need with excellent training and events," said Wagner. "AIAG also plays a key role in escalating any concerns within the supply chain to the attention of OEMs and the governing bodies. AIAG can bridge a lot of gaps so that new standards are effectively implemented, administered, and executed, and has a great vantage point from which to do this.'





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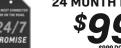
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Driver Assist Technology – Room for Improvement

by Jim Stickford

As recent accidents have proven, autonomous driving technology isn't here yet.

Over the past few weeks several accidents involving drivers using the latest driver-assist technology have been reported in the media. One Florida accident involving Tesla tech resulted in the driver's death.

The development of driver-assisted technology is just one part of the changing car business, said Jeremy Carlson, principal analyst and manager for IHS' Autonomous Driving & Mobility Department. He said it's important that the public understand the different levels of technology leading up to the "autonomous" car.

"The industry as a whole makes the distinction between driver assist technology, automated driving tech and autonomous tech," Carlson said.

Examples of driver assistance tech include features such as adaptive cruise control, collision avoidance systems and forward collision warning.

Automated driving tech, according to Wikipedia, assumes all real-time driving functions necessary to drive a groundbased vehicle without real-time input from a human operator. The automated driving system is generally an integrated package of individual automated systems operating in concert. A human driver is functionally required to initiate the automated driving system, and may or may not do so when driving conditions are within the capability of the system. A fully autonomous vehicle is a vehicle that is capable of sensing its environment and navigating without human input.

"Where we are at, technologywise, the driver is still responsible for what happens in the vehicle," Carlson said. "That will continue to be the case.'

Serious questions of legal liability after an accident have not been settled, Carlson said. The government must have an ongoing conversation with automakers as technology advances, Carlson said. The government can't just set standards and then expect car companies to meet them. The technology is evolving fast and will continue to change. That requires regulatory flexibility on both the government and automakers.

And consumers need to trust this advancing technology.

"There is a push-pull between automakers and the public,' Carlson said. "One of the big roles everyone has - the government, automakers, analysts have is educating the public on the state of this technology. We need to create a context where we can talk about this tech intelligently. It's a challenge that's never finished."

Unemployment Dips in State

LANSING, Mich. (AP) - Michigan's jobless rate dipped to 4.6 percent in June, a slight drop from May but the lowest in 15 years.

The state says it was the second consecutive monthly decline and the fourth so far this year. Jason Palmer, director of the Bureau of Labor Market Information and Strategic Initiatives, attributed the June decline to fewer people active in the workforce.

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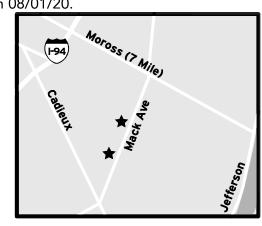
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Chevrolet Driver Places Second In N.H. Race

LOUDON, N.H. (AP) - Matt Kenseth pulled away down the stretch to win the Sprint Cup race July 17 at New Hampshire Motor Speedway.

Martin Truex Jr. and Kyle Busch each led more than 120 laps before fading late, paving the way for Kenseth to win for the second time this season.

Kenseth also won the New Hampshire race last September. He has 38th career victories.

"It was pretty much money all day," Kenseth said. "We just had to get there."

NASCAR said Kenseth's No. 20 Toyota failed the post-race laser inspection system and will be brought to the research and development center in Concord, North Carolina, for more evaluation.

Tony Stewart, who drove a Chevrolet SS, finished second and strengthened his spot inside the top 30 in the points standings. Stewart has a win this season and needs to secure a spot in the top 30 in points to clinch a spot in the Chase for the Sprint Cup championship. He entered the race in 30th in his final Cup season.

Joey Logano was third, followed by Kevin Harvick and Greg Biffle.

Alex Bowman had a solid day ruined when he hit the wall late and finished 26th driving for Dale Earnhardt Jr.

Earnhardt was sidelined because he suffered from symptoms of a concussion.

"A lot of attrition there got us in the top five," Biffle said. "We've got just a little bit of work to do to get our cars faster."

Truex tumbled to 16th when his Toyota suffered a broken shifter and Busch dropped the eighth.

That allowed Kenseth, Busch's Joe Gibbs Racing teammate, to cruise to the top and snatch the lead with fellow JGR teammate Denny Hamlin with 30 laps and he drove away on the final restart with 11 to go in the 301mile race.

But this race could be the one remembered for truly solidifying Stewart in Chase contention. He snapped an 84-race losing streak last month at Sonoma and was fifth last week at Kentucky Speedway.

Buick's Encore **Proves Great** Sales Success

CONTINUED FROM PAGE 1

its best sales month ever, in one of its last months before a fully refreshed version comes out in September, Korail said.

The Encore continues to gain popularity against competitive brands among key audiences including women and professionals. Women represent nearly 60 percent of Encore buyers, which is 16 percent higher than the industry.

"The Buick Encore provides buyers with a luxury experience in a nimble, compact, valuepacked vehicle," said Rebecca Lindland, senior director of commercial insights for Kelley Blue Book. "Not only is it chock-full of the latest in safety technology, it also is fun to drive and provides a wonderful, quiet cabin experience. It seats five - or fits a full day of shopping - comfortably, and is the ideal ride height to conquer snow without needing a step ladder. There's really no better small crossover, which is why I own one!"

The 2016 Encore most recently earned Kellev Blue Book's 5-Year Cost to Own Award in the luxury compact SUV category.