# Tech Center News®

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**Covers the Tech Center and the Immediate Area** 

**NOVEMBER 14, 2016** 

## **GM Holds Special Ceremony for Veterans Day**

by Jim Stickford

It's never too late to remember. GM held a special ceremony at the Tech Center on Nov. 10 to honor America's veterans,

Keith Nattrass, head of GM's Military & Veterans Affairs, GM Global Diversity, said that while the annual ceremony honors all veterans, this year's was specifically aimed at honoring Vietnam veterans.

The ceremony began with the TACOM Army Color Guard putting out the colors, including the American flag. Then, Ken Barrett, GM's chief diversity officer,

"General Motors has more than 4,500 military veterans employed here in the United States," Barrett said. "And we have more than 60,000 retirees who are veterans. They deserve a big hand."

Barrett said that GM has been recognized as a veterans-friendly, and spouse of veterans-friendly company, being named a 2016 "Top 20 Best for Vets Employer" for the second year in a row by Military Times.

"GM" walks the talk and will continue to support veterans, their spouses and their families,' Barrett said. "GM supports its veterans' job mission and has an active campaign to hire veterans. Almost 5 percent of our hires last

year were veterans. With all we've done, we realize that there's so much more to do and we're committed to doing it.'

As part of GM's efforts to help veterans, there was a special table set up outside the speaking area in the VEC building where people could donate to the group, Building for America's Bravest. The organization is the brainchild of the Stephen Siller Tunnel to Towers Foundation that builds smarthomes for the most catastrophically injured service members returning home.

Each home is custom-designed to address the unique needs of each individual. Energy-efficient, automated and easily accessible, these homes use adaptive technology to help the most severely injured heroes live better, more independent lives, Barrett said. People interested in learning more about the group and what they are doing can go to ourbravest.org.

David Small, president of UAW Local 160, spoke about the good work being done by Rosevillebased Vets Returning Home. That organization was started four years ago by Macomb County businesswoman Sandy Bower to help veterans readjust to the civilian world.

Bower was presented a \$1,000



TACOM Army Color Guard presents the colors at Veterans Day ceremony.

both the UAW and GM.

Retired Army captain John Gwizdak, who served as the VFW Commander-in-Chief from 2000

check for her organization from to 2001 spoke about the honor of being a veteran.

"Freedom isn't free," Gwizdak

**CONTINUED ON PAGE 3** 

#### **Macomb County** Offering Info on **Cybersecurity**

A data breach can have a costly, embarrassing and potentially livelihood-threatening effect on a business, no matter what size.

In an effort to help area manufacturers avoid the expense and devastating effects of a cyber breach, the Macomb County Department of Planning & Economic Development and the Michigan Automotive& Defense Cyber Assurance Team (MADCAT) will host a cybersecurity workshop, said Macomb County spokeswoman Vicky Rad.

The workshop will provide the tools needed to implement fundamental cybersecurity principles to lower the risk of cyberattacks, Rad said.

Attendees will learn how to identify possible threats and take proactive measures to protect their business and its data.

The class will take place from 9:30 a.m. to 11:30 a.m. on Wednesday, Nov. 16, at the Velocity Collaboration Center, 6633 18 Mile Road in Sterling Heights.

The cybersecurity workshop is intended for chief information officers, chief technology officers, presidents and information technology managers. To register, visit http://ped.macombgov.org/ped-FeaturedEvents or call 586-469-5285.

## Chevrolet Bolt Production Begins in Orion

by TOM KRISHER AP Auto Writer

ORION TOWNSHIP, (AP) - It can go more than 200 miles on battery power and it costs less than the average new vehicle in the U.S. But in an era of \$2 per gallon gasoline, the Chevrolet Bolt probably won't do a whole lot to shift America from gasoline to electricity.

General Motors has started making Bolt hatchbacks on a slow assembly line at its factory in Orion Township.

The cars, starting at \$37,495

before a \$7,500 federal tax credit, will go on sale in California and Oregon before the end of the year, and will spread to the rest of the country next year. The average sales price of a new vehicle in the U.S. is about \$34,000, according to Kelley Blue Book.

Analysts say the Bolt's 238mile range on a single charge, plus a net price of around \$30,000, should make it an attractive alternative to cars with internal-combustion engines. While they expect the Bolt to incrementally add to the number of electric cars now on the road, they

don't expect a seismic shift to electricity yet.

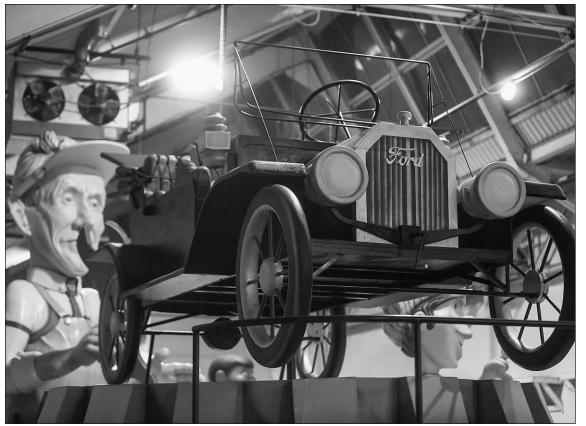
The Bolt's range more than covers the average daily round-trip commute of about 40 miles in the U.S., and that should give comfort to those who fear running out of power, said Stephanie Brinley, an auto industry analyst for IHS Markit. But there's always the late night at work and the early meeting the next morning without enough charging time, or the night you forget to plug the car in.

Those are tough adjustments for

**CONTINUED ON PAGE 2** 



2017 Chevrolet Bolt



Ford's Thanksgiving float features timeline from Model T to digital age to the future of smart mobility.

## 90-Foot Ford Float Helps **Lead Thanksgiving Parade**

Ford Motor Company loves a of the Ford Motor Company

That's why America's Thanksgiving Parade is entering a new float called Mobility One and more than 40 F-Series trucks, Mustangs and Explorers to lead the festivities through downtown Detroit.

Ford, which is investing \$20 million in local educational and community programs this year, is also extending its support for the region with a new three-year sponsorship commitment with The Parade Company – producer of both the Thanksgiving Day parade and the annual Ford Fire-

This Thanksgiving, Nov. 24, the parade celebrates its 90th anniversary.

"Ford will always be a leader in supporting events such as America's Thanksgiving Parade that bring our region together," said Jim Vella, president

"We're proud to announce our renewed commitment to not only continue supporting the great tradition of the Thanksgiving Day parade, but also the annual Ford Fireworks."

The new Ford float, at more than 90 feet long, features a timeline view of the company's rich history of innovation - from Henry Ford and the Model T to the digital age and into the future of smart mobility and autonomous vehicles, Vella said.

Families in attendance or watching on TV will see a largerthan-life Henry Ford, followed by modern-day students tinkering with technology and a visionary look ahead to a world of flying cars circling the globe.

Twelve giant screens embedded on Mobility One will high-

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#### Chevrolet Bolt Output Begins In Orion Plant

**CONTINUED FROM PAGE 1** 

many American drivers, she said. "We're trained to believe that wherever we go, we can get the fuel that we need. With electricity you need to plan that out a little bit more," Brinley said.

IHS predicts that GM will sell just under 30,000 Bolts in the first year, which won't add much to the roughly 235,000 electrics now on U.S. roads. Brinley said there will be small growth as more companies such as Tesla Motors roll out affordable electric vehicles with range over 200 miles. Last year, about 100,000 EVs were sold in the U.S., and IHS predicts 300,000 annual sales by 2020 and 400,000 by 2025.

Still, Chevrolet believes the Bolt is a game-changer. "It becomes just a mainstream vehicle choice," said Darin Gesse, the Bolt's product manager.

GM, he said, set out to make the range about equal to a halftank of fuel in a gas-powered car. With a half-tank of gas, most people don't worry that they have to refuel for a while and are comfortable driving, he said.

In a quick drive Nov. 4 on roads near GM's technical center north of Detroit, the car accelerated quickly when compared to a gas car.

GM says it goes from zero to 60 mph in about 6.5 seconds, which is faster than many muscle cars from the '70s and '80s. The handling was tight with very little body roll, yet the ride was smooth and quiet.

GM beat rival Tesla to market with a long-range affordable electric car by at least a year. Tesla plans to start delivering its 200-mile, \$35,000 (before tax credits) Model 3 in the second half of next year, and it had 373,000 deposits as of May.

The carmaker hasn't revealed exactly when the first customer will get a Bolt.

Chevrolet didn't take advance reservations but says there's been strong interest reported at its dealerships across the country.

Not all of General Motors' 3,000 dealers nationwide will be certified to sell and service the Bolt, although the company isn't sure how many yet.

Around 2,000 dealers can service the Bolt's plug-in cousin, the Volt

General Motors says that should be a big advantage over Tesla, which doesn't have service centers in every state.



## Chevy Equinox to Get Hollywood Premiere at L.A. Show



The 2018 Equinox will make its debut at the Los Angeles Auto Show...

Angeles Auto Show.

Chevrolet.

Offering a new design, the lat-

est connectivity, more safety fea-

tures and a trio of propulsion

choices - including the seg-

ment's only turbo-diesel - the

2018 Equinox is "a fresh and modern compact SUV," said Alan

Batey, president of GM North

America and brand chief, Global

Equinox is a modern SUV sized

and designed to meet the needs

of the compact SUV customer,"

said Batey. "We've got the

strongest truck business in the

industry and we've reinvigorated

our car lineup with Volt, Cruze

and Malibu. Now we are focusing

on growing our crossover/SUV

The 2018 Equinox goes on sale

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with the

business, starting Chevrolet Equinox."

"The all-new 2018 Chevrolet

The redesigned 2018 Chevrolet let design cues and the sculpted Equinox will make its public auto show debut Nov. 18-27 at the Los and Cruze.

Projector-beam headlamps are standard, along with LED daytime running lamps, while horizontal taillamps emphasize a wide stance, Batey said. Uplevel models feature LED taillamps.

Inside the vehicle, new elements such as available denimstyle seat fabric blend high style with high durability, while a new flat-folding rear seat enhances functionality and enables easier loading.

The 2018 Equinox also offers Chevrolet's latest connectivity technologies, including 7- and 8-inch-diagonal MyLink infotainment systems designed to support Apple CarPlay and Android Auto, as well as an available OnStar 4G LTE Wi-Fi hotspot, Kuhnen said. (Apple CarPlay and Android Auto compatibility is subject to their terms, privacy statements and data plan rates, as well as a compatible smart-phone)

crash-avoidance features, including:

... featuring a new tail configuration with horizontal taillamps.

- New Safety Alert Seat;
- New Surround Vision;
- New Forward Collision Alert with Following Distance Indicator;
- New Low Speed Forward Automatic Braking;
- New Lane Keep Assist with Lane Departure Warning;
  - New Rear Seat Reminder;
- Lane Change Alert with Side Blind Zone Alert;
- Rear Cross Traffic Alert.

Teen Driver is also offered, allowing parents to set controls and review in order to encourage good driving habits, even when they are not in the vehicle, Batey said.

A range of three turbocharged engines, including the segment's first turbo-diesel in North America, provides customers more choices when it comes to performance, efficiency and capability in the new 2018 Chevrolet Equinox, Batey said.

They include a 1.5L turbo, a 2.0L turbo that is matched with

GM's new nine-speed automatic transmission and a 1.6L turbodiesel. The lineup makes the new Equinox Chevrolet's first model in North America with an all-turbocharged, multi-engine propulsion lineup.

Additional vehicle highlights:

- It's approximately 400 pounds lighter than the current model, for a 10 percent weight reduction that contributes to vehicle balance and efficiency.
- The switchable AWD system enhances efficiency by disconnecting from the rear axle when not needed.
- A unique kneeling rear seat enables a flat rear load floor and up to 63.5 cubic feet of maximum cargo space.

The Equinox has proven to be a popular vehicle with consumers, Kuhnen said. Equinox sales have reached nearly 2 million since it was first launched in 2005.

The vehicle is Chevrolet's second-best-selling vehicle after the Silverado pickup truck, Kuhnen said.





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**NOVEMBER 14. 2016 COVERS THE TECH CENTER AND THE IMMEDIATE AREA** 



Retired Army Maj. Gen. James Jackson presents award to "Donut Dolly."

#### **New Car Recalls Announced**

subishi last week announced vehicle recalls.

Volvo is recalling about 79,000 cars and SUVs in the U.S. and Canada because the front passenger seat belt may not hold people in a crash. The recall covers certain S60, S90, V60, XC60 and XC90 vehicles from the 2016 and 2017 model years.

Volvo says in government documents that a buckle stud can come loose, allowing the buckle to separate from a bracket. If that happens, the belt may not hold the front passenger in a crash. The company said Nov. 9 it has no reports of injuries. It does not expect to find any loose studs but says it's recalling the vehicles as a precaution.

Dealers will replace the buckle ported due to the problem.

DETROIT (AP) - Volvo and Mit- if needed at no cost to owners starting Dec. 12.

Mitsubishi is recalling two SUV models to fix problems that could cause the windshield wipers to malfunction.

The first recall covers about 100,000 Outlanders from the 2006 to 2013 model years. Mitsubishi savs water can get between the hood and windshield and cause a ball joint to rust. That can knock out the wipers.

The second recall affects about 95,000 Outlander Sport models from 2010 to 2015. Water also can get between the hood and windshield, causing the wiper motor to rust and possibly fail. Dealers will replace the motor at no cost to owners.

No crashes or injuries were re-

#### GM Honors Veterans at Special Event

CONTINUED FROM PAGE 1

said. "It comes at a high cost and it's not something people think about. But it is paid for by special, unique and different people.

"There are more than 300 million people in this country and less than 1 percent sign up to go into harm's way. That 1 percent takes 100 percent of the bullets."

The next speaker was Joann Puffer Kotcher, author of the book, "Donut Dolly," which was about her days as a Red Cross volunteer who served in Vietnam. She spoke of visiting the troops in combat zones.

She said troops loved the Donut Dollys because they were a little bit of home in a war zone.

During her time in Vietnam, 1966-1967, she and her fellow volunteers visited troops, even going so far as to get shot at "because Viet Cong snipers wanted to kill a Donut Dolly, as we were called, because it would hurt troop morale."

Kotcher wore her Donut Dolly Red Cross uniform to the Veterans Day commemoration. She was proud that she still fit in it despite the fact that it shrunk a

Kotcher was then presented with a special commendation from retired U.S. Army Maj. Gen. James T. Jackson, director of the The United States of America Vietnam War Commemoration.

The group was officially approved of by Congress in accordance with the 2008 National Defense Authorization Act authoriz- thanks they deserve, Jackson ing the Secretary of Defense to conduct a program to commemorate the 50th anniversary of the Vietnam War.

Jackson said many Vietnam vets received no "thank you's" after coming home from the war and thanks to the efforts of groups like his, that attitude has changed.

Today's troops receive the

said, in part due to the efforts of many people and groups across the country.

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Jackson said presenting a commendation to Kotcher was part of the group's larger effort to recognize Vietnam veterans and give them the welcome home they deserve because it's never too late to try and do the right thing.

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## **90-Foot Ford Float Helps Lead Thanksgiving Parade**

CONTINUED FROM PAGE 1

light some of Ford Fund's numerous contributions to a better world, said Vella.

Eight-time Olympic swimming medalist Allison Schmitt, a native of Canton, will ride on the float. while her family will be celebrating other Ford connections as part of the festivities; Allison's mother and three sisters work at Ford, while her father is retired from the company. Dozens of Ford Volunteer Corps members will be walking alongside Mobility One as well.

The annual Thanksgiving parade in Detroit is one of the country's largest and longest-running. It traverses nearly three miles featuring bands, floats, celebrities and, of course, Santa. The parade begins at 8:45 a.m. at Woodward Avenue and Kirby Street near the Detroit Institute of Arts, and will be featured locally on WDIV-TV, WJR-AM and WOMC-FM.

Ford Fund, which works to strengthen communities yearround by assisting hunger relief agencies, said Vella, once again joins The Parade Company and Gleaners Community Food Bank in helping to feed the hungry in southeast Michigan.

There are 715,000 people - including 300,000 children - who do not know where they will get their next meal. A \$20 donation can feed a family for a week. Contributions can be made at gcfb.org or by calling 855-315-FOOD (3663).

Ford is also teaming up again with Detroit Area Agency on Aging as part of the Holiday Meals on Wheels program - ensuring more than 6,000 homebound seniors can enjoy holiday dinner this Thanksgiving.

Vella said over the last 10 years. Ford and Ford Fund have made community investments totaling \$161 million in the re-

Recent investments include a second Ford Resource and Engagement Center in Detroit, support for Cass Community Social Services' tiny homes neighborhood project to reduce homelessness, emergency vehicle and mobile food pantry donations, Ford STEAM Lab (a digital educational platform), and a \$200,000 Bill Ford Better World Challenge grant to University of Detroit-Mercy to create a mobility application to connect underserved populations with local re-

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Ford systems can now warn drivers - on the vehicle's instrument panel - when they're going the wrong way.

#### Ford Continues to Add New Tech to Vehicles

Building on its available driverassist technologies, Ford Motor Company is expanding its offerings with a range of next-generation features designed to ease parking hassles, improve collision avoidance, detect objects in the road and prevent wrong-way driving, said Ford spokesman Alan Hall

Ford offers more nameplates in the United States with adaptive cruise control, forward collision warning, lane departure warning with land-keeping assist, rear cross-traffic alert, driver monitoring, adaptive high-beam assist, Blind Spot Information System and advanced parking assistant than any other full-line manufacturer, said Scott Lindstrom, manager, Driver-Assist and Active Safety at Ford.

"Driver-assist help us all be better drivers because they enhance our ability to see and sense the road around us," said Lindstrom.

"Ford's investment in research and development is paying off by accelerating innovation to expand our portfolio of driver-assist technologies that deliver functionality and performance that customers will value."

Cross-traffic alert with braking technology in development at Ford is being designed to help reduce parking stress by detecting people and objects about to pass behind the vehicle, providing a warning to the driver and then automatically braking if the driver does not respond, Lindstrom

Rear wide-view camera, on the in-car display, will offer an alternative wide-angle view of the rear of the vehicle.

Enhanced active park assist will parallel or perpendicular park at the push of a button.

Other features in development at Ford of Europe's Research and Innovation Center in Aachen, Germany, include systems that steer around vehicles to help avoid high-speed collisions and systems that can warn drivers from traveling the wrong way against traffic.

These new technologies - expected to be available on Ford vehicles within two years - are part of the company's commitment to triple its investment in developing driver-assist features, Hall said.

Evasive steering assist is a new technology that can help drivers steer around stopped or slower vehicles to help avoid collisions. Designed to operate at city and highway speeds, it uses radar and a camera to detect slowermoving and stationary vehicles support to enable drivers to avoid a vehicle if a collision is im-

there is insufficient space to cyclists and animals.

technologies avoid a collision by braking and the driver decides to take evasive action.

> Wrong-way alert technology a windshield-mounted camera and information from the car's navigation system to offer customers visual and audio warnings should they begin driving in the wrong direc-

> Enhanced active park assist controls steering, gear selection, and forward and reverse movement to facilitate parking at the push of a button.

It can enable a vehicle to automatically enter and exit a parallel parking space, as well as reverse into a perpendicular

"Parking is one of the most stressful experiences behind the wheel, and drivers struggling to find suitable parking spaces in urban areas can impact traffic flow," said Dirk Gunia, supervisor, Driver-Assist Electronics, Ford of Europe.

"Technologies like enhanced active park assist will help drivers feel confident about parking in spaces they might otherwise consider too small.

Cross-traffic alert with braking uses radar sensors to monitor the area behind the vehicle.

If the driver is backing out and does not react to the initial warning, the system is designed to automatically apply the brakes.

Rear wide-view camera displays a broad view from the rear of the vehicle on the in-car display, offering similar functionality to the company's front wideview camera available for Ford Edge, along with Ford Galaxy and Ford S-MAX in other markets.

When reversing, it provides an additional view that enables drivers to see around corners, as ahead, and provides steering well as obstacles and objects approaching from behind the car.

Another technology being developed is an infrared camera The system is activated if that helps detect pedestrians,



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UAW Region 1 Veterans Council Honor Guard presents the colors at Fiat Chrysler Tech Center on Nov. 9.

### **Chrysler Honors Veterans in Ceremony**

by Jim Stickford

Fiat Chrysler celebrated 2016 Veterans Day by renewing its committment to the Employer Support of the Guard and Reserve (ESGR) program by signing a statement of support on Nov. 9 at the company's World Headquarters Technical Center.

By signing the ESGR letter of intent, Fiat Chrysler has joined other employers in pledging:

- To fully recognize, honor and comply with the Uniformed Services Employment and Re-Employment Rights Act;
- That managers and supervisors will have the tools they need to manage those employees who serve in the Guard and Reserve;
- To appreciate the values, leadership and unique skills service members bring to the workforce and encourage opportunities to hire guardsmen, reservists and veterans;
- To recognize and support our country's service members and their families in peace, in crises and in war.

Fiat Chrysler currently has 16 employees on active military leave with 375 currently serving as active or inactive reservists and guardsmen. More than 5,000 employees are military veterans.

The intent of the ESGR Statement of Support is to increase employer support by encouraging employers to act as advocates for employee participation in the military," said Tom Bullock, chief, Employer Engagement, Employer Support of the Guard and Reserve.

"FCA US is setting a high standard for all Michigan employers and especially manufacturing companies to follow by providing above and beyond support to veterans, those whom are currently serving in the National Guard and Reserve.'

Wayne Smith, is chair of the Fiat Chrysler Veteran's Committee. He also is an IT tech trainer for the company, where he has worked for the past 23 years.

"I am not a veteran," Smith said. "In high school, I, along with three friends, joined the Air

"But just before I was about to go into the service, my parents were killed in an accident. I had a younger sister, Sandy, to take care of, so the Air Force wouldn't take me because of that responsibility."

Smith said he's been on the Veteran's Committee for 22 of his 23 years at Fiat Chrysler. While he's not a veteran, he has served on the company's Veteran's Committee because "it gives me the opportunity to give back to those who have sacrificed much for their country.'

That's why he was happy to Chrysler is celebrating its veterhelp put together the Nov. 9 ESGR ceremony.

He credited members of UAW Local 412 for their help as well as their years of supporting vet-

Glenn Shagena, head of Employee Relations and Lead for the Veterans Employee Resource Group at Fiat Chrysler, spoke at the ceremony, talking about the history of Veterans Day and how Fiat Chrysler was proud to celebrate the day by pledging support of ESGR.

Bullock said he was particularly proud of what they were doing because he himself was a veteran of the Air Force, 1966-1970.

> "FCA US is setting a high standard for all Michigan employers..."

> > - Tom Bullock, **ESGR**

He said when he came back from Vietnam in 1970, he and his fellow servicemen were advised not to wear their uniforms when flying home because they weren't sure what type of response they might get from Vietnam war objectors.

He added that he didn't check the veterans' box during his first job interview because he didn't know the "temperature" of the office.

Two weeks later, he admitted what he did, only to be told that his bosses could tell he was a veteran by his attitude and work ethic. He then got to check the veterans' box.

ans and working to make sure that employees who are being deployed by the National Guard and Reserve get the help they

Army Col. Dawn Devine of the Army's Office of the Assistant Secretary of Defense, Yellow Ribbon Reintegration Program, read Fiat Chrysler's ESGR Statement of Support, which was then signed by Bullock and Shagena.

One Fiat Chrysler employee who is grateful for the company's efforts on behalf of veterans and National Guard and Reserve members is Steve Zaner, who is a senior manager in Fiat Chrysler's Corporate Security division.

Zaner is also in the Air Force Reserve, currently with the rank of major in Office of Special Investigations.

"I am coming up on 20 years in the Reserve," Zaner said. "I joined because the military always interested me and being a part of something bigger than yourself is imporant.

"Everyone in my family has been involved in the military and it's an honorable profession."

Zaner said he's never been deployed in a war zone, but, since 2004, he's been called up several times.

Last August, he spent a month in Louisiana. In 2011, he was sent to New Mexico for six months.

The biggest thing about ESGR is that it gives you peace of mind," Zaner said.

"I don't have to worry about benefits or loss of pay.

"In 2011, I was gone for six months and my wife was working while taking care of two small children.

"Knowing their basic needs were being taken care of was a relief and my colleagues in the workplace also helped make sure my family was taken care

## American Axle, Metaldyne **Agree to Merger Deal**

ing Holdings, Inc. (AAM), and Metaldyne Performance Group Inc. (MPG) on Nov. 3 entered into a definitive merger agreement under which AAM will acquire MPG for approximately \$1.6 billion in cash and stock, plus the assumption of \$1.7 billion in net debt, said AAM spokesman Christopher Son.

This action brings together highly complementary businesses and forms a premier, global Tier I supplier with broad capabilities across powertrain, drivetrain and driveline product lines, as well as diversified customer base and end-markets, Son said.

Under the terms of the agreement, each share of MPG's common stock will be converted into the right to receive \$13.50 per share in cash and 0.5 share of AAM common stock. Upon closing of the transaction, AAM's shareholders will own approximately 70 percent of the combined company and MPG's shareholders will own approximately 30 percent.

The transaction has been unanimously approved by the

American Axle & Manufactur- boards of directors of both companies and is anticipated to close in the first half of 2017 subject to shareholder and regulatory approval and other customary closing conditions.

> Concurrent with the signing of the merger agreement, Son said AAM entered into a voting agreement with an affiliate of American Securities LLC, the controlling stockholder of MPG in which American Securities LLC has agreed to vote in favor of the transaction, subject to the terms of the voting agreement. Following the transaction, an affiliate of American Securities LLC will own approximately 23 percent of the combined company.

"AAM's transformational acquisition of MPG brings together two complementary Tier I organizations to create a company with greater scale and increased diversity across products, customers and end markets," said David C. Dauch, AAM's chairman and CEO. "MPG's expertise in complex, highly-engineered powertrain components and its global footprint will be tremendous assets to AAM."

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### Will Autonomous Tech Eliminate Drivers' Jobs?

PITTSBURGH (AP) -Ronald De Feo has watched robots take factory jobs for years. Now he sees them threatening a new class of worker: People who drive for a

"I am in Pittsburgh; it's a test market for Uber's autonomous vehicle," says De Feo, CEO of the industrial materials firm Kennametal.

"We see all these (automated) Ubers running around the streets of Pittsburgh, a confusing and difficult place to navigate. If they can make that work, what do you think happens to the job of being a taxi driver?'

Scientists and economists say the threat isn't theoretical: Automated cars pose an existential threat to the many Americans who drive for a living: 2.9 million truckers and delivery drivers, 674,000 bus drivers, 181,000 cab drivers and chauffeurs.

The big question is how long it will take auto and tech companies to clear the technical hurdles to turning the streets over to driverless cars.

"I don't see herds of robotic trucks running down the highway in the next few years," says Vern Meyerotto, a 61-year-old truck driver in Denver. "There's an awful lot of development that needs to be done on it.'

But the quick development of driverless cars has caught economists by surprise.

Assessing which jobs were vulnerable to robots in a 2004 book, economists Frank Levy of the Massachusetts Institute of Technology and Richard Murnane of Harvard University reckoned that truck drivers were safe. Surely, a machine couldn't negotiate rush-hour traffic without a helping human hand.

Six years later, Google's automated cars were on the road, crossing the Golden Gate Bridge, circling Lake Tahoe and cruising down Hollywood Boulevard.

Now, companies from Ford to Tesla to Uber are investing in automated car technology.

Uber, which has been testing driverless taxis in Pittsburgh, disputes the idea that automated cars will cost the economy jobs.

"Technology also creates new work opportunities while disrupting existing ones," Travis Kalanick, Uber's CEO, and Anthony Levandowski, its vice president for self-driving technology, said in a statement.

"Self-driving For example: Ubers will be on the road 24 hours a day, meaning they will need more human maintenance."

A 25-year veteran cabbie who goes by A. Tucker was sitting in his Peoples Cab outside the Wyndham Grand Hotel in Pittsburgh. He worked in a Jones & Laughlin steel mill for six years before he was laid off and started driving a

He said he fears that driverless cars will eventually compete with guys like him.

"If you flip the coin to the other side, it was like the steel industry," Tucker said. thought we would never lose our jobs to automation. But we lost our jobs, and many of us are driving cabs now."

Cab drivers have been forced to become more professional, tech-savvy and educated to compete, because they now use tablet computers, credit card processors and GPS, Tucker said.

"Change is inevitable, whether we like it or not," he said. "That's life on the Earth moving for-

## 2017 Pacifica Earns Top Fed Safety Marks

The new 2017 Chrysler Pacifica has earned a five-star overall safety rating from the U.S. National Highway Traffic Safety Administration (NHTSA).

Five stars is the highest possible safety rating given by NHTSA, said Fiat Chrysler spokesman Eric Mayne. The Chrysler brand's new minivan also scored five stars - the highest possible rating – in each of the crash tests included in NHTSA's safety assessment program.

The tests simulate:

- · Frontal collision;
- Side-impact simulating a two-vehicle collision;
- Side-impact simulating a single-vehicle collision with a pole.

These latest test results complement the Top Safety Pick+ rating previously given to the 2017 Chrysler Pacifica by the Insurance Institute for Highway Safety (IIHS), Mayne said.

"These results are a clear indicator of our unwavering commitment to engineering excellence," said Mike Dahl, head of Vehicle Safety and Regulatory Compliance, FCA – North America.

To achieve this level of safety, Dahl said that Fiat Chrysler engineers conducted more than 8.500 simulated crashes and more than 80 full-vehicle impacts.

These tests led to the development of a body structure that integrates 12 different steel grades. High-strength steel accounts for 72 percent, of which 38 percent is Advanced High-strength Steel (AHSS).

And because these materials were used strategically, Dahl said, the new Pacifica's body structure is also 250 pounds lighter than that of the vehicle it replaced - an enhancement that contributes to the vehicle's class-leading 28-miles-per-gallon highway-cycle fuel-economy rat-

NHTSA's rating system ac-

knowledges the availability of three "recommended" safety features: rear-view cameras, lanedeparture warning and forwardcollision warning. The 2017 Chrysler Pacifica checks the box for each category:

- ParkView rear backup camera: Standard equipment, it provides a wide-angle view of the area immediately behind the vehicle, giving the driver greater peace of mind before reversing at low speeds; features dynamic grid lines to aid the driver when maneuvering into parking spaces or narrow areas; image is displayed on the navigation screen when the transmission is shifted into Reverse.
- LaneSense Lane Departure Warning-Plus: Available as part of the Advanced Safety Tec Group, it leverages electronic power steering (EPS) to deliver a torque input to alert and assist the driver with corrective action.
- Available Forward Collision Warning-Plus: Available as part of the Advanced Safety Tec Group, it utilizes radar sensors and cameras to detect whether the Pacifica is approaching another vehicle or large obstacle in its path

too rapidly, and warns or may assist the driver in avoiding/mitigating the incident.

The blending of radar sensors and cameras is known as sensorfusion technology. Such redundancy affords greater objectdetection precision. Similar systems on competitive vehicles feature one technology or the other, Dahl said.

Once reserved for luxury-segment vehicles, Fiat Chrysler currently makes sensor-fusion technology available across six vehicle segments, from small SUV to minivan.

It's the company's technology of choice for driver assistance in crash mitigation.

Collision-warning systems are a prerequisite to earn Top Safety Pick+ status from the IIHS, Mayne

Top Safety Pick+ status is contingent on the availability of such systems, provided they achieve ratings of "advanced" or "superi-

The Pacifica's system is rated "superior," and its performance in each of five IIHS crash tests was classified as "good," the highest rating.



2017 Chrysler Pacifica

## Tesla Ending Its Free Use of Charging Sites

DETROIT (AP) - Electric car charging stations. After credits maker Tesla Motors says it will end unlimited free use of its worldwide charging station network.

The company says cars ordered after Jan. 1, 2017, will get roughly 1,000 miles worth of credits each year at the super-

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are used, owners will have to pay fees. Cars ordered or sold on or before Jan. 1 would still get free charging.

Tesla didn't specify the fees but says charging would cost less than the price of filling a comparable gasoline car. The company says it will release fee details later this year. It says prices could fluctuate over time and vary by regional electricity costs.

This means that free charging won't apply to the \$35,000 Model 3, which is due to enter production in the second half of 2017. Tesla said 373,000 people put down \$1,000 deposits for the Model 3 as of May.

Buyers of new cars ordered or sold on or before Jan. 1 must take delivery before April 1 in order to get the free charging.

Tesla has set up 734 charging stations worldwide that can give the cars 170 miles of range in a half-hour. A 30-amp public charging station can only do 10 miles in a half-hour, the company says on its website. In the U.S., charging stations are across the nation, but many are concentrated in population centers along the East and West Coasts.

The stations were set up to enable long-distance travel with the electric cars. The company's Model S sedan can go from 219 miles per charge to 302 miles, depending on battery and software op-

Tesla says the change will let it expand the supercharger network and it will not make a profit from the charging stations.



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## Tesla Car Dealership Fight **Reaches Utah's Top Court**

on Nov. 7 took its fight to sell its sleek electronic cars in Utah to the state supreme court, saying a state law that bars carmakers from owning dealerships doesn't apply to the company.

Tesla attorneys told Utah's Supreme Court that the state wrongly denied the company a license to sell its automobiles last year. Telsa sells its cars directly to customers rather than using independent dealerships.

The company contends it must sell its own cars because its business depends on convincing customers that its electric cars are better than a car with a gas en-

Tesla attorneys argued last week that Utah law doesn't block carmakers from selling directly, it only blocks carmakers from owning a dealership that's set up as a franchise.

State licensing officials and a powerful group of Utah car dealerships disagreed, arguing Tesla must comply with Utah's dealer

Justices on the five-member court did not issue a decision in the case last week, but they did question where in state law a car manufacturer is expressly barred from selling its cars directly. The justices also asked if the franchise law applies to Tesla because it set up a subsidiary company in Utah to sell its cars.

The Utah Automobile Dealers Association argues that Tesla is required to comply with the franchise dealership law. The law was designed to keep large carmakers like GM from pushing out independent dealers selling the same cars.

sold through traditional dealer- months.

SALT LAKE CITY (AP) - Tesla ships. It would be a conflict of interest for dealerships to sell Teslas because they also sell gas

> The company also maintains that the law protects a monopoly by locally powerful car dealerships and violates free-market economic policies in Utah's constitution.

> The car dealers have disagreed, arguing that if Tesla was allowed to sell directly to those buying the company's cars, it would stifle competition.

> Even in a free market, there are regulations, the automakers argue. They also dispute Tesla's claim that it would be a conflict of interest for dealerships to sell electric cars, pointing to other electric cars like the Nissan Leaf that they already sell.

> An effort to try to change the law earlier and accommodate Tesla failed in Utah's legislature earlier this year after the company pulled its support, saying the fix wouldn't allow it to keep any inventory in the state.

> Unable to sell cars through its \$3 million showroom in Salt Lake City, Tesla instead decided to take its fight to Utah's Supreme Court.

> The company has run into similar legal problems in other states. Todd Maron, Tesla general counsel, told reporters after last week's court hearing that Texas, Michigan, Connecticut and Utah are the only four places the company can't sell its cars.

> "Utah's an incredibly important market, it's a very entrepreneurial place," Maron said. "It really, I think, is wrong that we can sell in China and not in Utah."

A ruling from Utah's high Tesla contends it hasn't ever court could come in weeks or

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## Chevy Lovers Can Now Get New Parts, Kits

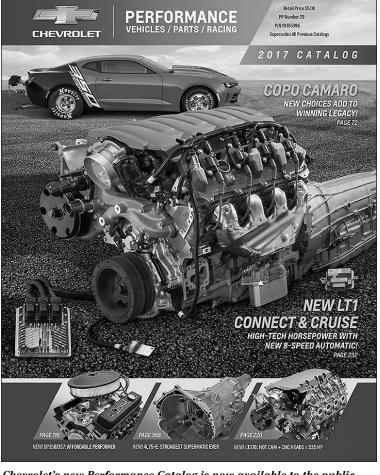
Now that the SEMA show in Las Vegas is over, Chevy has just the thing to help car buffs inspired by GM's display of enhanced vehicles - the 2017 Chevrolet Performance catalog.

Released at the SEMA Show, the latest catalog features an expanded lineup of performance parts and accessories for the newest Chevrolet cars, trucks and SUVs, as well as new crate engines, transmission kits, controllers and other performance parts, said GM spokesman Randy Fox.

"For nearly 50 years, Chevrolet Performance has fueled the passion of enthusiasts and led the industry with crate engines engineered to deliver power, durability and innovative technology,' said Jim Campbell, Chevrolet U.S. vice president of Performance Vehicles and Motorsports. "From the original Small Block and Big Block engines to the LS and new LT engines, we have never stopped innovating, and 2017 brings more choices for enthusiasts building the vehicles of their dreams.'

The greater range of choices is driven by new crate engines and transmissions, including:

- LT376/535 The new crate engine is based on the production LT1 engine found in the Corvette Stingray and Camaro SS. Engineers developed a high-performance unique camshaft for it and complemented it with CNC-ported cylinder heads. The result is 535 naturally aspirated horsepower.
- SP350/357 Leveraging the strength of the popular 350 H.O. crate engine and matching it with new hydraulic roller camshaft, with the latest Small Block intake manifold design and high-flow Vortec cylinder heads. Horsepower increased to 357 and torque jumped to 407 lb.-ft.



Chevrolet's new Performance Catalog is now available to the public.

- LT1 Connect & Cruise / E-ROD packages - The 455-hp LT1 6.2L crate engine is available in Connect & Cruise and E-ROD packages. With the Connect & Cruise package, the LT1 (wet sump) is matched with the new 8L90-E eight-speed automatic transmission. The Connect & Cruise E-ROD system takes the concept a step further, adding catalytic converters and other emissions-related equipment to make it CARB-compliant for millions of 1996 and earlier vehicles in California.
- 8L90-E eight-speed automatic transmission – Chevrolet has adapted the 8L90-E for use with LT1 and LT4 crate engines. With four gearsets and five clutches, creative packaging enables it to fit the same space as GM's family of six-speed automatics.

Fox said Chevrolet also offers approximately 50 more Small Block, Big Block and LS-series crate engines, as well as a wide range of manual and automatic transmission choices builders.

Chevrolet offers dozens of unique performance parts for most new Chevrolet models. They are designed, engineered, tested to OEM standards and backed by Chevrolet. They are designed to work seamlessly with other vehicle systems, and calibrations are offered on some parts. Importantly, the new-vehicle warranty remains intact when the accessories and performance parts are installed by a Chevrolet dealer.

Highlights include:

- Gen 6 Camaro Suspension handling package for SS coupe with Magnetic Ride Control. It includes 1LE-based components with springs, stabilizer bars and suspension links.
- Lowering kit Tailored for SS and LS/LT models, including coupe and convertible variants, it lowers the vehicle approximately 0.75 inch (20mm). The kit includes higher-rate springs and specially tuned dampers.
- Strut tower brace for SS coupe models.
- Exhaust systems for V8, V6 and 2.0L turbocharged models.
- · Performance air intake for V8 and V6 models. • Six-piston Brembo brake up-
- grade for V8, V6 and 2.0L turbo models.
- Four-piston Brembo brake upgrade for V6 and 2.0L turbo models.
- Short-throw shifter for SS
- models. Color-coordinated engine covers for V8, V6 and 2.0L turbo models.
- Corvette Stingray T1 Suspension kit.
  - Ground effects kits.

The new parts were on display recently at the SEMA Show and in the 2017 catalog, which features complete details on them and more. It is available for download at chevrolet.com/performance and offers a new searchable feature, allowing customers to link from the contents page to the corresponding product page.



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#### Team Chevrolet Racer Earns Victory in Texas

Rookie-of-the-Year leader Chase Elliott powered his No. 24 Kelley Blue Book Chevrolet SS to a fourth-place finish in the AAA Texas 500 at Texas Motor Speedway, Round 8 of the Chase for the NASCAR Sprint Cup on Nov. 6.

Elliott, who started 11th, battled flu-like symptoms prior to the start of the scheduled 334lap/501-mile race, but a six-hour delay due to rain gave him more recuperation time.

Chevrolet Chase contender Kevin Harvick, No. 4 Busch Chevrolet SS, finished sixth as weather forced NASCAR to halt the action on lap 293. Harvick, the 2014 NASCAR Sprint Cup Series champion, heads to Phoenix International Raceway (PIR) in an all but a must-win situation. With eight wins at PIR, Harvick is the most successful NSCS driver at the 1-mile track.

Fellow Chevrolet SS driver and Stewart-Haas Racing teammate, Kurt Busch, No. 41 Haas Automation/Monster Energy Chevy, who struggled with an ill-handling racecar throughout the duration of the event, finished a disappointing 20th. The 2004 champion also heads to PIR in need of a win or trouble for his other competitors in order to advance to the final round of this year's Chase. Busch has one previous win at PIR to draw on as he battles for his spot as one of the four contenders at Homestead Miami Speedway.

Completing the Team Chevy drivers in the top-10 were Kasey Kahne, No. 5 AARP Drive To End Hunger Chevrolet SS, who earned an eighth-place finish after starting 33rd at the drop of the green flag, and Ryan Newman, No. 31 Grainger Chevrolet SS, rounding out the Chevrolet power in the top 10 ending the night in 10th.

Pole winner Austin Dillon, No. 3 Realtree/Bad Boy Chevrolet SS, ran consistently in the top-five throughout the evening until ontrack contact ended his race on lap 264.

#### **Voters Reject Proposed Rapid Transit System**

DETROIT (AP) - Voters have declined a tax for a Detroit-area regional public transportation plan that would have created regional rail service and supplemented existing bus lines.

Voters in Wayne and Washtenaw counties overall supported the tax, results showed, but opposed it in Oakland and Macomb

The defeat "is a deeply disappointing setback for efforts to create a modern transit system that would position southeast Michigan to be a stronger competitor in the 21st century both nationally and internationally," Regional Transit Authority of Southeast Michigan Board Chairman Paul Hillegonds and RTA CEO Michael Ford said in a joint statement.

"It leaves southeast Michigan as the only large region in the nation . . . without a functioning regional rapid transit system," they added.

Opponents said the plan would have amounted to a massive tax hike on top of what residents already pay through gas taxes, vehicle registration fees and existing transit rates.

Brian King, 35, of Troy, told The Detroit News that he couldn't support the millage because he didn't expect to use the system and because the tax was too much. The Detroit police officer also said, "People like to drive their cars."





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## Cadillac Parks Its Image **In Andy Warhol Museum**

Cadillac and The Andy Warhol Museum entered into a multiyear partnership and new global traveling exhibition titled, "Letters to Andy Warhol."

Warhol was known for combining art with everyday consumer items, which is why Cadillac's partnership with The Andy Warhol Museum makes sense, said GM spokesman Eneuri Acosta.

The collaborative project between the brand and the cultural institution celebrates Warhol's legacy through imaginative, cocreated content and experiences, Acosta said. The exhibition features rarely-seen material from the museum's archive, including artwork and Warhol's personal correspondence, plus artistic contributions from several modern-day cultural creators.

Together, the works explore recurring themes from Warhol's body of work, such as the blurring of art and commerce and the trials of fame.

The result is an examination of not only Warhol, the American icon, but also Warhol the multifaceted, sensitive and ambitious artist who reached for inspiration across the colliding worlds of fashion, music, media, art and celebrity.

"Letters to Andy Warhol" focuses on five letters to or from Yves Saint Laurent, Mick Jagger, the Museum of Modern Art, the New York State Department of Public Works and a mutual friend of his and Truman Capote's. The letters offer a glimpse into Warhol's most personal experiences and relationships. Each letter has also inspired artistic contributions and experiences from a roster of talent, including Aimee Mullins, Brian Atwood, Chiara Clemente, Derek Blasberg, David LaChapelle, Francesco Clemente, J.J. Martin, Nick Rhodes, Sean Lennon, Sienna Miller and Zac Posen.

The exhibition also includes five artworks - all sharing Cadillac as the subject - across varying mediums and techniques, and from different periods of Warhol's career.

"Andy Warhol's mastery of popular culture as high art made him one of the most influential American artists of the last century," said Melody Lee, director of Brand Marketing for Cadillac. "Letters to Andy Warhol celebrates Warhol's unique individualism, and Cadillac as a cultural inspiration for his important work."

Patrick Moore, the museum's interim director, said, "Andy Warhol painted a portrait of American life. The Warhol's partnership with Cadillac, an iconic American brand that appears in Warhol's work, feels completely right to us.

"We're excited to be part of an exhibition that examines the concontemporary culture through the lens of some of today's most influential tastemakers."

The Cadillac artworks on display in Letters to Andy Warhol include:

- "Four Male Costumed Full Figures, 1950s" and "Car, 1950s" were both works created as a commission for Harper's Bazaar, which requested that he "make a visual comment on the phenomenon of the American motorcar." The works illustrate a 1958 Cadillac Coupe de Ville.
- "Cadillac, 1962" in graphite on sketchbook paper.
- "Seven Cadillacs, 1962" depicts what is likely a 1963 Fleetwood (Special) four-door hardtop in black silkscreen ink on
- "Sign (Keep Out), 1976-1986," consists of four gelatin silphotographs, machinestitched in a grid with thread, picturing what is likely a 1983 Cadillac Coupe de Ville d'Ele-

During the initial few weeks of the exhibition, Cadillac House will have a Cadillac Park Avenue DeVille featured in the "Seven Cadillacs, 1962" work on display, Acosta said.

That particular Cadillac is a limited production model from 1962 and 1963 designed specifically for Cadillac owners who lived in New York City high-rise apartments with underground garages, with a shorter deck for easier parking.

Other heritage vehicles that will be on display include a black 1958 Sedan DeVille and a red 1959 Eldorado Biarritz.

The exhibition is free and open to the public at Cadillac House, located at 330 Hudson Street in Manhattan, 8 a.m.-7 p.m. weekdays and 10 a.m.-7 p.m. weekends from Nov. 15 to Dec. 26.

"Letters to Andy Warhol" will then travel to Los Angeles in mid-January for display at the 101/EXHIBIT Gallery and to Miami in early February for display at Palm Court before going on a global tour through early

Cadillac House is a meeting place where innovators, creators and the curious can find inspiration, Acosta said.

Located in downtown New York City, Cadillac House represents the brand's commitment to its new home, which was chosen because it is considered one of the most dynamic locales in the world, Acosta said. Open to the public, Cadillac House functions simultaneously as a gallery, retail space, café and exhibition area for the brand's new vehicles - a venue with an ever-evolving Cadillac point of view on subjects beyond automotive design.

Cadillac House has several partnerships, including: New York-based coffeehouse Joe Coffee serving coffee and light fare, The Council of Fashion Designers of America maintaining a retail space dedicated to innovative tinuing influence of Warhol on design, and art and culture magazine Visionaire curating non-traditional, immersive and experiential works in the gallery area.



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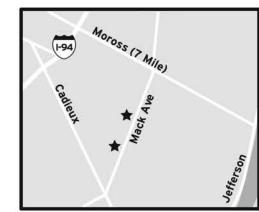
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