Tech Center News

WARREN, MICHIGAN

VOL. 41 NO. 36

Covers the Tech Center and the Immediate Area

make Cadillac a true world brand

are showing some strong results.

U.S. and China drove Cadillac

global sales to 28,163 units in

growth for Cadillac, and contin-

ued execution of the brand's

Cadillac sales have increased

31.6 percent globally year to date. In the midsize luxury

crossover category - the indus-

globalization strategy.

Substantial gains in both the

month of double-digit

MAY 15, 2017



The 2017 Cadillac XT5 is a sales success across the globe.

April, an increase of 40.9 percent taling 11,530 units. In addition, over the same period in 2016. sales of Cadillac's ATS sport April marked the 11th consecu-

sedan and coupe models grew 46.7 percent for the month while the XTS luxury sedan rose 13.4 percent.

Cadillac achieved strong growth in the U.S. in April, with sales increasing 9.5 percent. According to Power Information Network, Cadillac gained 0.9 per-

Cadillac Global Sales Gain 40.9 Percent

lac grew 92 percent in April, and

63.1 percent so far in 2017 due to

the success of the XT5. The new

luxury crossover was the brand's

best seller worldwide in April, to-

General Motors' efforts to try's strongest segment - Cadil- centage points of luxury market share in the U.S. in April and 0.7 percentage points of retail share year-to-date, said GM spokesman David Caldwell. The average transaction price for a new Cadillac in the U.S. in April rose \$1,000 to \$55,174, approximately \$5,000

CONTINUED ON PAGE 5

2017 Grand Prix Kicks off with Charity Event

The 2017 PwC Grand Prixmiere, presented by Chevrolet, returns Friday, June 2, starting at 6:30 p.m. on Belle Isle Park.

This event attracts high-profile attendees from all across Michigan to support the Belle Isle Conservancy and sets the stage for the Chevrolet Detroit Grand Prix presented by Lear race weekend on Belle Isle, said spokeswoman Erica event Swoish Harmon.

All proceeds from the Grand Prixmiere benefit the Belle Isle Conservancy in their continued efforts to preserve, restore and enhance Belle Isle Park.

The 2017 event celebrates the "art of racing" featuring one-of-a-

CONTINUED ON PAGE 3

Warren Rotary Offers to Take People Out for a Ride

tive

The Warren Rotary Spring Carnival is here once again.

The annual event in front of the Warren city hall on Van Dyke started May 11 and will last through May 21.

Rotary Warren Michael Krause said the event raises money for his group's charities.

Carnival hours are 4 to 10 p.m. Monday through Thursday and all-ride wrist band is \$20 per person, \$15 with a coupon from the Warren city publication, Newsbeat.

To learn more about the event, call 586-268-8400.

Michael Williams, president of the Warren Rotary, said the organization expects to raise between \$20,000 and \$25,000 for their charities.

"Our main effort is our dictionpresident ary project," Williams said. "We buy a dictionary for every third grader in Warren and Center Line regardless of where they go to school.

"The other charities we help noon to 10 p.m. on weekends. An out include the Capuchin Soup Kitchen, the Detroit Rescue Mission and the Shriner's Hospital.

> "We also support the Warren Mentoring Program. That's where we help mentor young people in the city of Warren."



The Warren Rotary Spring Carnival and all its rides are back in town.

BorgWarner's Compressor Hits Automotive Marketplace

BorgWarner, a global provider of technology solutions for combustion, hybrid and electric vehicles, has debuted its 48-volt eBooster electrically driven compressor in Daimler's latest 3.0liter gasoline engine.

The engine will feature the eBooster technology matched with a BorgWarner-supplied turbocharger to improve fuel efficiency, enhance low-end torque and deliver boost on demand without any perceptible turbo lag, said BorgWarner spokeswoman Michelle Collins.

"Our market-leading eBooster technology enables 6-cylinder engines to deliver the same performance and even more fun-todrive experience as a much largconventional V8," er said Frédéric Lissalde, president and general manager of BorgWarner Turbo Systems. "By enabling engine downsizing, eBooster technology improves fuel efficiency by 5 to 10 percent in combustion and hybrid vehicles." BorgWarner's eBooster electrically driven compressor delivers boost on demand until the turbocharger takes over, improving boost at low engine speeds and nearly eliminating turbo lag, Lissalde said. Featuring a brushless DC motor, durable samarium-cobalt magnets and highly efficient power electronics, the compact eBooster technology offers automakers flexible packaging options.



BorgWarner's eBoost compressor

and clean engines is driven by consumer demand and better drivability as well as new regulations, said Hermann Breitbach, vice president of Global Engineering and Innovation at Borg-Warner Turbo Systems.

As a result, boosting fuel economy through downsizing and downspeeding as well as improvement of low-end torque and transient engine performance has become a major focus of the auto industry.

Ford Makes Instant Parts Delivery a Reality

Instant gratification - it's something many of us look for. People can rent a movie in a matter of seconds, hail a ride in minutes or have a gift delivered to a family member overnight.

So when it comes to getting a replacement part for one's vehicle – which could take a week or more, depending on the necessary repair - why can't dealerships and service centers get the parts they need in hours instead of days?

Now, they can, said Ford spokeswoman Sara Tatchio.

With Hot Shot express parts delivery from Ford, orders are accepted for high-volume maintenance repair parts such as brakes, hoses and filters from a wider range of clients, including other dealers and independent shops, and are fulfilled within two hours, Tatchio said.

"Improving the customer experience has been top of mind for Ford and the entire Ford Cusice Division (FCSD).

"From initiatives such as Hot Shot express parts delivery to

the 2016 relaunch of the Motorcraft parts brand to the 2017 introduction of the Omnicraft line of parts and innovative pilot programs such as the Smart Service Kiosk, everything we are doing revolves around providing better

CONTINUED ON PAGE 2



tomer Service Division operation," said Frederick Toney, president, Global Ford Customer Serv-

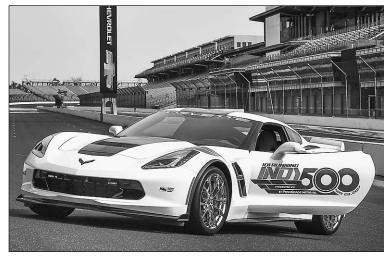
"It can be adapted to a wide range of hybrid or combustion applications," said Collins.

Development of more efficient

This gets customers back on the road faster while giving dealers the opportunity to expand their business by acting as wholesale parts distributors.



Ford's Hot Shot express delivers parts in a day, instead of weeks.



The 2017 Chevrolet Corvette Grand Sport Indianapolis 500 Pace Car.

Corvette to Pace Indy 500

The Corvette Grand Sport is the official pace car for the 2017 Indianapolis 500 and will lead drivers to the green flag on May 28 for the 101st running of the legendary race, said GM spokesman Randy Fox.

It marks the 14th time a Corvette has served as the official pace car, starting in 1978, and the 28th time a Chevrolet has led the field, dating back to 1948, Fox said. No other vehicle has served as the pace car more than the Corvette. The first Chevrolet Indianapolis 500 pace

Chevy fans, start your engines. car was a 1948 Fleetmaster Six convertible.

"Chevrolet is proud to once again pace the Indianapolis 500,' said Steve Majoros, marketing director for Cars and Crossovers. "The Corvette Grand Sport's performance capability and motorsports heritage make it the perfect choice to pace the Greatest Spectacle in Racing.'

The 2017 Corvette Grand Sport pace car features:

• 460-hp (343 kW) LT1 directinjected V8 engine with dry-

CONTINUED ON PAGE 2

View This Week's Edition at http://TechCenterNews.com

2017 Corvette Grand Sport to Pace Indianapolis 500

Tech Center News®

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Learn to Cook Inexpensive, Tasty Meals

The Warren Public Library's Arthur Miller branch is holding a cooking class titled "Cooking Matters!" beginning on Wednesday, June 27.

The six-week course will start at 5:30 p.m. and last two hours, said Warren librarian Amy Nelson. The course ends on July 27.

"The idea behind the course, Nelson said, is to teach people how to cook more healthful meals and save money," Nelson said. "The course is sponsored by the Gleaners Food Bank. People who attend will be helped by Gleaners volunteers who will teach attendees how to cook healthy meals on a limited budget. It will put people on the path to new, better cooking and eating habits."

Space for the course is limited, Nelson said. They are taking no repeat participants and attendees must commit to all six classes. The program will be held at the Warren Community Center's cafeteria. Cll 586-751-5377 to register. CONTINUED FROM PAGE 1

sump oiling and active exhaust;Eight-speed paddle-shift automatic transmission:

• Equipped with the available carbon-fiber ground effects package;

• Specific Grand Sport wheel design: 19 x 10-inch (front) and 20 x 12-inch (rear);

 Standard magnetic ride control, specific stabilizer bars and unique springs;
Standard electronic limited-

slip differential;

• Includes the available Z07 package, with carbon ceramicmatrix brake rotors and 285/30ZR19 (front) and 335/25ZR20 (rear) high-performance tires;

• Brembo Carbon Ceramic brake system with 15.5-inch (394

mm) rotors with six-piston in calipers in front and 15.3-inch Gas (380 mm) rotors with four-piston 192 calipers in rear; "

• Unique Indy 500 graphics package.

The Grand Sport pace car equipped with the Z07 package can accelerate from 0-60 mph in 3.6 seconds, cover the quarter-mile in 11.8 seconds and achieve 1.2 g cornering capability.

Chevrolet has a storied history with the Indianapolis Motor Speedway, Majoros said.

Chevrolet was founded in 1911, the year of the inaugural 500-mile race, and company cofounder Louis Chevrolet, along with brothers Arthur and Gaston, competed in early Indy 500 races.

Arthur Chevrolet competed

MCC Helps Stop Fraudsters

Identity theft is no joke. Every two seconds someone's identity is stolen, and seniors are increasingly the target of these scams.

That's why Macomb Community College (MCC) has brought in AARP Fraud Watch Network ambassador Frank Abagnale, portrayed by actor Leonardo Di-Caprio in the film, "Catch Me If You Can."

Abagnale will share his scamsavvy skills on May 16 at 6:30 p.m. at the Macomb Center for the Performing Arts on Macomb Community College's Center Campus in Clinton Township.

The presentation is free, but seating is limited, and advance registration is required by either calling 877-926-8300 or going online to aarp.cvent.com/fwncmiyc 0516.

MCC spokesman Sean Patrick said that during "An Evening with Frank Abagnale," participants will learn how to avoid becoming a victim and find ways to fight this escalating fraud.

Abagnale is an expert on scams. Between the ages of 16 and 21, he successfully posed as an airplane pilot, an attorney, a doctor and cashed millions in fraudulent checks.

Now a security consultant and authority on cybersecurity, Abagnale is an AARP Fraud Watch Ambassador and helps raise awareness of activities such as the "tech support scam," in which fraudsters pose as technicians from one of the major computer companies to gain access to personal computers, files, passwords and credit card information.

The Macomb Center for Performing Arts is located at 44575 Garfield Road, Clinton Township (corner of Hall and Garfield roads). in the 1911 race and Gaston Chevrolet won it in 1920.

"Chevrolet and Indianapolis are inextricably linked, sharing one of the longest racing heritages in all of motorsports," said J. Douglas Boles, president of Indianapolis Motor Speedway.

"We are proud of the long-

and standing relationship between t in Chevrolet and the Speedway and we love having the Corvette polis Grand Sport lead the 500 field to aring the green flag."

> Chevrolet is pursuing its sixth consecutive IndyCar manufacturer championship this year, building on a successful 2016 season that saw 14 wins out of 16 races.

Instant Parts Delivery Now Reality with Ford's Hot Shot

CONTINUED FROM PAGE 1

service to our customers and helping dealers grow their business."

Hot Shot express parts delivery is not a new service, but the recent growth of the program shows Ford dealers are eager to adjust to the changing needs of consumers, Toney said.

In recent years, the number of U.S. Ford dealers offering Hot Shot service has gone from just a few to more than 300, says Andrew Idler, manager, Wholesale Operations, Ford Customer Service Division.

According to Idler, a typical dealer delivery system will have mapped-out routes with specified customers on the routes. Deliveries are usually on a more planned basis, once a week for example, and usually involve a truck filled with several orders, Toney said.

Hot Shot delivery promises delivery of high-volume maintenance parts within two hours, designed for an installer who has a vehicle on the lift and needs the part quickly to maximize bay space.

"With Hot Shot, we've been able to speed up delivery times

across the board," said Jim Stahl, parts manager, Van Bortel Ford in East Rochester, N.Y.

And this on-demand approach has had a positive impact on dealer business, Stahl said.

"We began offering what we call the Hot Shot Highway in February of 2013," said Stahl. "Reducing wait times allowed us to increase our customer base by 125 percent easily."

Stahl said that the increase in customers also has boosted the bottom line for the business by roughly 20 percent.

Village Ford of Dearborn was an early adopter offering Hot Shot parts delivery several years ago, Toney said.

The dealership recently added another driver to keep up with demand.

"We typically run 20 to 30 Hot Shot deliveries per day and between 100 and 150 each week," said Andrew Kochan, parts manager at Village Ford.

"These deliveries are going to 40 different customers including other dealers and independent shops ... all are pleased with the service and many are amazed by our dedication to helping them better serve their customers."







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Tech Center News

MAY 15, 2017

COVERS THE TECH CENTER AND THE IMMEDIATE AREA

PAGE 3



GM is expanding its Maven services across the country.

Grand Prix Charity Event Kicks Off 2017 Races

CONTINUED FROM PAGE 1

based artist and General Motors designer Matt Burke, Harmon said

Burke's artwork will be displayed throughout the event's venue, bringing a fresh pop of color to the island, all while celebrating Detroit's most iconic architecture, landmarks and the cars of yesterday and today.

This year's event is chaired by Ken Morris, GM vice president of Global Product Integrity, and his wife Michele.

"Michele and I are honored to work with the teams at General Motors, PwC, Penske Corporation, The Grand Prix and the Belle Isle Conservancy to bring our vision for this event to life, said Morris.

Quality is an important aspect of my job, as well as all of the work we do at GM, and we look forward to bringing that same exceptional quality to everyone's experience at the Grand Prixmiere."

Morris said attendees can expect a night to remember as they make their way onto the Grand Prix track and into the trackside venue overlooking the island's Scott Fountain.

The evening's cocktail reception will be attended by the area's top business and community leaders, as well as worldclass Grand Prix race drivers.

It will be followed by a seated dinner by Andiamo, a program and auction emceed by Paul W. Smith and live entertainment by Your Generation in Concert.

Each year the Grand Prixmiere is highlighted by a live auction of one-in-a-lifetime experiences and packages, Harmon said.

Distilling Co. and Wallace Guitars, with support from CBJ Transportation.

Packages include: • The opportunity to create, bottle and label your own liquor with the team at Ann Arbor Distilling Company.

• A custom guitar crafted with reclaimed wood sourced from Detroit and Belle Isle from Wallace Detroit Guitars.

• A VIP experience in SOHO as guests of Cadillac at Men's Fashion Week in New York.

• A weekend getaway touring the vineyards of Napa Valley and a VIP experience at the Sonoma Raceway for the Verizon IndyCar Series finale – GoPro Grand Prix of Sonoma - in September.

• The chance to mingle with past Grand Prixmiere chairs and ride along with Team Penske IndyCar driver Josef Newgarden on the Milford Road Course at the GM Milford Proving Ground.

The evening is made possible with champion support from the Penske Corporation, Harmon said.

Joining PwC, Chevrolet and Penske in support of the 2017 Grand Prixmiere are:

- Blue Cross Blue Shield of Michigan:
- BOSCH, Bridgestone Firestone North American Holdings Ltd:
- DTE Energy Foundation; • Gallagher-Kaiser
- Corporation;
- Hitachi Automotive Systems; • Horizon Global;
- Huntington Bank;
- i.M. Branded;
- Lear Corporation;
- Nemak;

General Motors Expands Maven Services

GM's Maven is expanding its flexible mobility platform to accelerate the "gig" economy.

Maven Gig drivers are provided access to vehicles they can use for independent gigs that they choose, such as package delivery, food or grocery delivery, and ridesharing, said GM spokeswoman Annalisa Bluhm.

The program is live in San Diego and will launch in San Francisco and Los Angeles later this year. Initial partners include GrubHub, Instacart, Roadie and ridesharing services.

GrubHub is a service that helps users find and order food from wherever you are by typing in an address to see restaurants that deliver and also options for pickup near them. Instacart allows you to order fresh groceries online by connecting you with shoppers who hand-pick items at people's local favorite store and deliver straight to their doorstep, in as little as an hour.

Roadie is an app-based delivery service that puts unused capacity in passenger vehicles to work by connecting people with stuff to send with drivers heading in the right direction - it's like carpooling for packages, Bluhm said.

With no penalty for early returns after one week, Maven Gig is a low-risk way to test out the freelance economy, Bluhm said.

Potential drivers who do not own a vehicle or are unable to use their personal vehicle can now generate income by participating in the sharing economy. Maven Gig serves as a singular portal allowing access to vehicles that could be used for multiple sharing services with endless possible gigs.

The new economy is enabling different opportunities, and Maven Gig is helping to transform the future of shared mobility, Bluhm said. Maven Gig is tailored to drivers looking for flexible, affordable vehicle access to maximize earning potential.

By 2020, an estimated 43 percent of the U.S. workforce will be made up of workers who freelance. The nature of employment is changing, and Maven Gig is a nimble platform to grow and adapt with the shift.

Maven's internal data shows a Atlanta; Baltimore; clear, growing need for Maven Gig. Maven's on-demand rental for ridesharing program has produced more than 100 million miles driven and 9.3 million rides have been given, Bluhm said. Maven has applied learnings from these operations to launch Maven Gig and help make the sharing economy more accessible and intelligent.

In March, Maven became the first and only program to offer the Chevrolet Bolt EV with an EPA-estimated range of 238 miles for both car-sharing and ridesharing applications, Bluhm said. The deployment in California has shown that the Bolt EV is uniquely suited for vehicle sharing and will be important for the gig economy.

The compact hatchback seats five with room for cargo storage, and the flat floor facilitates easy entry and egress, Bluhm said, adding that the smooth, quiet electric propulsion is ideal for dense urban areas.

The freelance economy is growing. Since last year, Maven has provided vehicles for ridesharing in 11 markets: Atlanta; Baltimore; Boston; Chica-Detroit; Los Angeles; go; Nashville, Tenn.; Phoenix; San Diego; San Francisco; and Washington, D.C.

Maven City car sharing is active in 13 markets. Members can reserve vehicles for hourly or daily rates seamlessly through a mobile app in Ann Arbor, Mich.;

Boston: Chicago; Denver; Detroit; Jersey City, N.J.; Los Angeles; Orlando, Fla.; San Francisco; Washington, D.C.; and Kitchener-Waterloo, Ontario, Canada.

Maven, General Motors' personal mobility brand, has expanded to 17 cities in North America since launching in January 2016. Maven has attracted 35,000 members who have driven more than 115 million miles through 45,000 reservations.

Maven by the numbers:

 More than 100 million miles have been driven through Maven's on-demand rental for ridesharing program.

• More than 9.3 million rides have been given in Maven vehicles for ridesharing.

 Maven recently deployed more than 100 Chevrolet Bolt EVs with an EPA-estimated range of 238 miles into car-sharing and ridesharing services in California

"Maven Gig is enabling freelancers to earn income through multiple sources," said Julia Steyn, vice president, General Motors Urban Mobility and Maven.

"Maven is a smart, innovative platform transforming the future of shared mobility."

"The gig economy," said Harry Campbell, owner and founder of The Rideshare Guy Blog and Podcast, "is driving innovation and creating opportunity for so many who want to freelance as their primary source of income."



WEEKDAY SPECIALS – Monday – **Buy One Chicken Dinner**

This year's auction packages have been generously donated by General Motors, Ann Arbor

- PNC Bank;
- Rush Group, LLC;
- Strategic Staffing Solutions;
- UAW-GM Center for Human Resources.

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QLINE Open for Commuters in Woodward Business Corridor

DETROIT (AP) - Elected offi- into the QLINE main office at the attended the launch of Detroit's light rail system Friday. May 12.

PAGE 4

The QLINE started picking up passengers last Friday following a celebratory program at Grand Circus Park downtown.

Speakers included Gov. Rick Snyder, Mayor Mike Duggan, and businessmen Roger Penske and Dan Gilbert.

The project was led by private businesses and philanthropic organizations in partnership with local, state and federal governments.

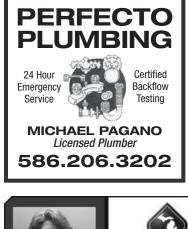
Its 6.6-mile roundtrip route will extend along Woodward Ave. from the downtown riverfront to Detroit's New Center area.

The QLINE features threepiece streetcars that are each 66 feet long and can carry an average of 125 passengers.

The daily walk-up fare is \$1.50 and is good for three hours.

Complimentary Wi-Fi service on the QLINE will be provided by Detroit-based gigabit internet and technology service provider Rocket Fiber.

The services include networkbased technology to incorporate



cials and area business leaders Penske Technical Center and public Wi-Fi at the stations and trains, said Rocket Fiber spokesman Tom Goulding.

> After conducting an open competitive selection process, M-1 RAIL selected Rocket Fiber to provide these services, Goulding said. Paul Childs, Chief Operating Officer at QLINE, noted that "Rocket Fiber's solution of gigabit internet was a winner for both our QLINE passengers and our team. We want to create a premium experience for all riders and that includes the ability to connect to Wi-Fi at QLINE stations and aboard the streetcar.'

> Internet was available starting May 12 to all QLINE riders and those within approximately 300 feet of each station.

> Rocket Fiber's newly developed fiber optic infrastructure and track-side radio system will deliver faster and more reliable internet that has virtually no capacity limitations, meaning the volume of passengers connected to the Wi-Fi on the cars will have little to no impact on the connection strength, Goulding said.

> The network is engineered to provide a highly reliable and continuous connected experience as the trains move from station to station.

> "Our client service is what really sets Rocket Fiber apart as a technology partner," said Mark Ansboury, vice president of Infrastructure and the Rocket Fiber project lead for QLINE deployment.

> "We wanted to go beyond the internet service everyday and provider create а socially supportive initiative for



A QLINE streetcar in operation as it travels through Detroit

the city of Detroit that also provides a complete networking solution for QLINE riders. As a home grown, dedicated Detroit technology partner, we are proud and excited to be a part of this historic project to bring mobility and connectivity to the city.'

Rocket Fiber's turn-key solution includes the design, build, operation and management of the network, including future maintenance and support, freeing the M-1 RAIL team to focus on their core business of providing transportation in Detroit, Goulding said. Rocket Fiber is retaining Nerds Xpress, a local minority contractor, to manage the LAN network at the Penske Technical Center.



A map of the QLINE route on Woodward in Detroit



Where Fit Comes First...

Professional

Wide Widths

Fitting

In Stock

Here's How the QLINE Operates

The QLINE street car service began on May 12. Here are some frequently asked questions about the service provided by the M-1 RAIL, the body that operates the OLINE

What are QLINE's hours of operation?

Monday-Thursday 6 a.m.-11 p.m.

Friday 6 a.m.-12 a.m.

Saturday 8 a.m.-12 a.m.

How much does it cost to ride **OLINE?**

A single 3-hour fare is \$1.50. Seniors, disabled riders and

medicare cardholders are eligible for a single 3-hour fare for 75 cents.

A 24-hour fare is \$3. Monthly passes are \$30. Annual passes are \$285.

How do I purchase a QLINE ticket?

Tickets can be purchased on the QLINE Detroit iTunes Mobile

QLINE will travel up to 30 mph, the maximum speed on Woodward Ave. OLINE will share the roadway with vehicular traffic and stop for traffic lights.

How many streetcars are in service?

M-1 RAIL owns and operates six modern QLINE streetcars. Service levels will be determined by ridership, with four cars operating at most times. At peak hours and during special events, service will increase. At off-peak hours, fewer cars will be in operation.

How big are the cars?

OLINE's modern three-piece. articulated cars are 66 feet long with 34 seats and carry an average of 125 passengers per car.

Where are QLINE stations and how do I know when my streetcar will arrive?

Stations will also feature next vehicle alert screens.

Is security personnel aboard

QLINE. Level-boarding at station platforms enables easy access, and strollers can be stored on the low-floor area of the QLINE.

Where can I park near the **OLINE?**

You can find parking maps for the City of Detroit http://www.detroitmi.gov/parking and other parking operators http://detroit.bestparking.com/neighborhoods/.

ParkWhiz is the best place to find and book a guaranteed parking space before you reach your destination.

How will I know if the streetcar is stopping?

Each streetcar vehicle will have brake lights in the back to inform drivers and cyclists when the streetcar will stop at a station

How is the QLINE powered?

The QLINE is powered by a 750-volt lithium ion battery, operating 60 percent off-wire, the highest percentage of any streetcar system in the United States.

Sunday 8 a.m.-8 p.m.





Our chefs create something exciting every day...



App and at glinedetroit.com.

Ticket vending machines are available at each station platform. Cash ticket purchases can be made on the streetcar.

Tickets can also be purchased at the Penske Technical Center, 7520 Woodward Ave., with a money order or credit card.

How far does the streetcar travel?

QLINE is a 6.6-mile circulating streetcar loop connecting Downtown Detroit, Midtown, New Center and the North End.

How many stops are on the **QLINE?**

The QLINE has 12 stops and will run 22-25 minutes from Downtown to Grand Blvd. How long is a complete QLINE ride?

During peak times, a complete ride will range between 20-25 minutes in early operations. Once QLINE runs five streetcars, that time will be reduced to 15 minutes.

How fast will QLINE travel?

the streetcar?

Transit police will make random checks on streetcars throughout the day to verify fares. Stations are equipped with security cameras and emergency phones.

Will people with disabilities be able to ride the QLINE ?

All streetcar stations and vehicles will be ADA-accessible. Streetcar stations will have level boarding with the vehicle. Sounds and lighting systems indicate when the streetcar doors open and close. There will be a driver on each vehicle manually operating the doors.

Are bicycles allowed on the **QLINE ?**

Bicycles are permitted on the QLINE. They must be hung on the vertical bike racks while riding. Cyclists yield priority seating to those traveling on wheelchairs or with strollers.

Are strollers allowed on the **QLINE?**

Strollers are permitted on the

Will the OLINE be air-conditioned or heated?

QLINE will be climate controlled. Stations will also be heated.

Will the QLINE be wi-fienabled?

Yes. QLINE and its stations have free wi-fi.

JPMorgan Chase Invests in Detroit

DETROIT (AP) - JPMorgan Chase is expanding its financial commitment to Detroit's economic recovery.

The bank announced May 10 that an initial five-year investment of \$100 million is expected to reach \$150 million.

Since 2014, the bank has invested, through loans and grants, \$50 million in community development financing.

Humans Still Mystery to Autonomous Cars

by TOM KRISHER AP Auto Writer

DETROIT (AP) - In just a few years, well-mannered self-driving robotaxis will share the roads with reckless, law-breaking hu-man drivers. The prospect is causing migraines for the people developing the robotaxis.

A self-driving car would be programmed to drive at the speed limit. Humans routinely exceed it by 10 to 15 mph - just try entering the New Jersey Turnpike at normal speed. Self-driving cars wouldn't dare cross a double yellow line; humans do it all the time. And then there are those odd local traffic customs to which humans quickly adapt.

In Los Angeles and other places, for instance, there's the "California Stop," where drivers roll through stop signs if no traffic is crossing. In Southwestern Pennsylvania, courteous drivers practice the "Pittsburgh Left," where it's customary to let one oncoming car turn left in front of them when a traffic light turns green. The same thing happens in Boston. During rush hours near Ann Arbor, Mich., drivers regularly cross a double-yellow line to queue up for a left-turn onto a freeway.

"There's an endless list of these cases where we as humans know the context, we know when to bend the rules and when to break the rules," said Raj Rajkumar, a computer engineering professor at Carnegie Mellon University who leads the school's autonomous car research.

Although autonomous cars are likely to carry passengers or cargo in limited areas during the next three to five years, experts say it will take many years before robotaxis can coexist with human-piloted vehicles on most side streets, boulevards and freeways. That's because programmers have to figure out human behavior and local traffic idiosyncrasies. And teaching a car to use that knowledge will require massive amounts of data and big computing power that is prohibitively expensive at the moment.

"Driverless cars are very rulebased, and they don't understand social graces," said Missy Cummings, director of Duke University's Humans and Autonomy Lab.

Driving customs and road conditions are dramatically different across the globe, with narrow, congested lanes in European cities, and anarchy in Beijing's giant traffic jams. In India's capital, New Delhi, luxury cars share poorly marked and congested lanes with bicycles, scooters, trucks, and even an occasional cow or elephant.

Then there is the problem of aggressive humans who make dangerous moves such as cutting cars off on freeways or turning



Autonomous Bolt on Tech Center Campus

from lane to lane without hesitation.

Already there have been isolated cases of human drivers pulling into the path of cars such as Teslas, knowing they will stop because they're equipped with automatic emergency braking.

"It's hard to program in human stupidity or someone who really tries to game the technology,' says John Hanson, spokesman for Toyota's autonomous car unit.

Kathy Winter, vice president of automated driving solutions for Intel, is optimistic that the cars will be able to see and think like humans before 2030.

Cars with sensors for driverassist systems already are gathering data about road signs, lane lines and human driver behavior. Winter hopes auto and tech companies developing autonomous systems and cars will contribute this information to a giant database.

Artificial intelligence developed by Intel and other companies eventually could access the data and make quick decisions similar to humans, Winter says.

Programmers are optimistic that someday the cars will be able to handle even Beijing's traffic. But the cost could be high, and it might be a decade or more before Chinese regulators deem self-driving cars reliable enough for widespread public use, said John Zeng of LMC Automotive Consulting. Intel's Winter expects fully

autonomous cars to collect, process and analyze four terabytes of data in 1-1/2 hours of driving, which is the average amount a person spends in a car each day. That's equal to storing over 1.2 million photos or 2,000 hours of movies. Such computing power now costs over \$100,000 per vehicle, Zeng said. But that cost could fall as more cars are built.

Someday autonomous cars will have common sense programmed in so they will cross a double-yellow line when warranted or to speed up and find a gap to enter a freeway. Carnegie Melsection to clear before proceeding at a green light. Sensors also track crossing traffic and can figure out if a driver is going to stop for a sign or red light.

Eventually there will be vehicle-to-vehicle communication to avoid crashes.

Still, some skeptics say computerized cars will never be able to think exactly like humans.

"You'll never be able to make up a person's ability to perceive what's the right move at the time, I don't think," said New Jersey State Police Sgt. Ed Long, who works in the traffic and public safety office.





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left in front of oncoming traffic. lon has taught its cars to handle In India, for example, even when the "Pittsburgh Left" by waiting a lanes are marked, drivers swing full second or longer for an inter-

Cadillac's Growing as World Brand

CONTINUED FROM PAGE 1

above the luxury market average and second highest among major luxury brands.

That was just the good news for the North American market, Caldwell said.

Sales of Cadillacs in China grew 98.4 percent in the month of April, following the all-time record set in 2016 in the world's largest market. For the year to date, Cadillac sales in China are up 92.5 percent, and 32 percent globally.

"When we launched our strategy for the transformation of Cadillac almost three years ago, we announced that our focus would be on product substance, expansion of the portfolio, strengthening the quality of busi-

ness, and an enhanced delivery experience," said Cadillac President Johan de Nysschen.

"We knew it would take time, but that robust sales would eventually follow. Our operational results are a vindication of the strategy, and new products like XT5 and CT6 provide a strong statement about our commitment to excellence in execution."

Cadillac sales numbers for April 2017:

• U.S. - 12,300, vs. 11,236 in 2016. A 9.5 percent increase;

• China – 13,903, vs. 7,007 in 2016. A 98.4 percent increase;

• Canada - 1,247, vs. 980 in 2016. A 27.2 percent increase;

• Middle East – 298, vs. 305 in 2016. A 2.3 percent decrease;

• Rest of World – 415, vs. 458 in 2016. A 9.4 percent decrease.

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GMC Terrain's Price Starts Below \$26,000

Pricing for the new 2018 Terrain will start at an MSRP of \$25,970 when it goes on sale this summer.

The new Terrain offers greater refinement and versatility to adapt to customers' unique needs, and it's packed with more available features and advanced safety technologies than ever before, said Duncan Aldred, vice president of Global GMC.

Three new turbocharged engines, leading with a 2.0L at launch - followed later with a 1.5L and an available 1.6L turbodiesel - provide more choices when it comes to performance, efficiency and capability.

"Terrain helped define the premium compact SUV segment and the all-new 2018 model elevates it with a stronger roster of standard and available features," said Aldred. "GMC's proven SUV experience makes it a more compelling choice than ever, with a strong blend of design, functionality and engineering excellence."

The new GMC Terrain provides great value in packaging with a host of standard premium features, Aldred said, including a new 170-hp, 1.5L turbo engine paired with a new nine-speed automatic transmission; drivercontrollable Traction Select system; signature LED daytime running lamps and taillamps; leather-wrapped steering wheel; flat-folding front passenger seat; and keyless open and start.

"GMC is a premium brand and we are committed to bringing bold, capable and precisely crafted vehicles to customers within every segment," said Sean Greatrex, marketing manager for GMC Terrain.

"The all-new 2018 GMC Terrain delivers upon this commitment within the hyper-competitive compact SUV segment. We're



The 2018 GMC Terrain SLT goes on sale this summer.

confident the Terrain's premium features and competitive pricing present customers with a highvalue compact SUV option they are seeking."

The 2018 Terrain will be manufactured at GM's assembly plant in Ingersoll. Ontario.

Aldred said the Terrain Denali raises the bar even further to add a standard 252-hp, 2.0L turbo engine; 19-inch ultra-bright machined aluminum wheels and LED headlamps

It also adds standard a heated leather-wrapped steering wheel; hands-free power programmable liftgate; an 8-inch diagonal infotainment system with navigation; Bose premium seven-speaker audio system; and a suite of standard safety features that include Side Blind Zone Alert with Lane Change Alert, Rear Cross Traffic Alert, Rear Park Assist and Safety Alert Seat

Terrain SL and SLE starting MSRPs:

- Terrain SL FWD \$25,970;
- Terrain SLE FWD \$28,795; Terrain SLE Diesel FWD
- \$32.565:
- Terrain SLE AWD \$30,545;

- Terrain SLE Diesel AWD -\$34,315.
- Terrain SLT starting MSRPs: Terrain SLT FWD - \$32,295;
- Terrain SLT Diesel FWD -\$35,140;
- Terrain SLT AWD \$34,045;
- Terrain SLT Diesel AWD -\$36,890.
- Terrain Denali starting MSRPs: Terrain Denali FWD
- \$38,495; Denali AWD -Terrain \$40,245.

The new Terrain keeps passengers connected with Apple CarPlay and Android Auto compatibility and access to a standard in-vehicle OnStar 4G LTE Wi-Fi hotspot. GMC customers in the U.S. can currently purchase an unlimited data plan enabled by AT&T for only \$20 per month.

In addition to the 4G LTE connection, the OnStar Basic Plan comes standard on all new GMC retail models for five years.

The Basic Plan offers select remote vehicle services and the OnStar AtYourService marketplace via the myGMC mobile app, among other features, Greatrex said.



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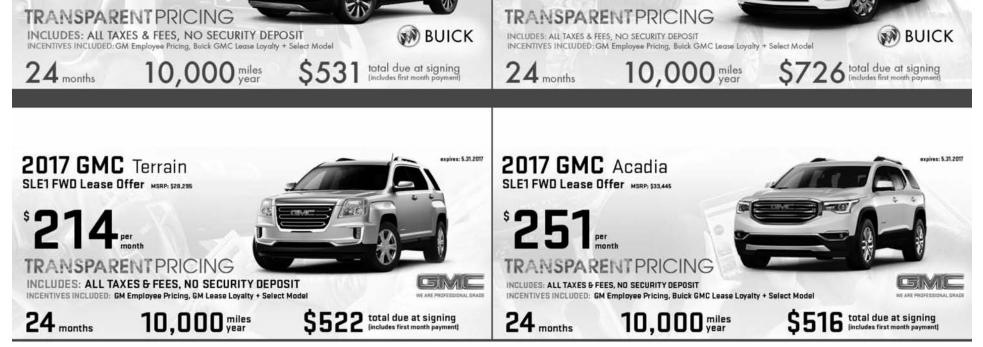






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Vehicle Demand Declines In Vital Chinese Market

by KELVIN CHAN AP Business Writer

HONG KONG (AP) - China's auto sales shrank in April as demand for most types of vehicles wilted, an industry group said May 11.

The China Association of Automobile Manufacturers said 1.7 million passenger cars were sold in China last month, down 3.7 percent from the same period a year ago.

That's down from 1.7 percent sales growth in March.

Total vehicle sales, including buses and trucks, fell 2.2 percent from a year earlier to 2.1 million.

"Car production and sales fell significantly last month," the association said in a statement. "Automotive market demand was weak.'

Auto demand in China has been cooling since Beijing raised a sales tax on small-engine vehicles at the start of the year, putting off drivers from buying cars. Analysts forecast the market will grow by mid-single digits this year, down from 15 percent in 2016. For the year to date, auto sales have grown a tepid 2.5 percent to 7.7 million vehicles.

Some 24.4 million vehicles were sold in China last year, more than any other country, making it the most important market for global automakers. However, this year's slowing growth does not bode well for the industry.

The association said the sport utility vehicle segment was the only one that grew, with sales rising 11.1 percent over a year ago to 684,400.

SUVs are popular with Chinese families who see them as safer, and their sales help automakers

offset falling demand for sedans, which contracted 7.7 percent last month, and minivans, which shrank 20 percent.

Sales of Chinese-brand vehicles fell 1.9 percent to 733,000.

Among foreign carmakers in China:

 General Motors Co. said sales of GM-brand vehicles by the company and its Chinese partners slipped 1.9 percent in April from a year earlier to 272,770. Deliveries of SUVs, minivans and luxury cars rose 14 percent.

• Ford Motor Co. said sales grew 11 percent to almost 94,000, with sales of its luxury Lincoln brand nearly doubling to 4,500.

• Nissan Motor Co. sales rose 9.5 percent to 105,324 vehicles.

 Toyota Motor Co. sales rose 7.2 percent to 108,300.

GM Converting **Lansing Plants**

DELTA TOWNSHIP, Mich. (AP) General Motors is getting ready to shut down a Lansing-area plant for a month to prepare for upcoming production changes.

The Lansing State Journal reported on May 8 that the Lansing Delta Township plant would close on May 12 to phase out production of the GMC Acadia SUV and to prepare to build the Buick Enclave and Chevrolet Traverse SUVs. When work resumes in June, the third shift will be gone

GM spokeswoman Erin Davis says the move will bring about 600 layoffs, but 500 workers could be brought back in early 2018 as production ramps up.

Plans for the shutdown were previously announced.

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Packard Plant Rebuilding Efforts Still Not Started

by COREY WILLIAMS Associated Press

DETROIT (AP) - Peruvian developer Fernando Palazuelo saw the hulking and crumbling Packard car plant on Detroit's east side and vowed to turn the industrial ruin that's a symbol of the city's urban decay into bright apartments, busy shops and art galleries.

It's been more than three years since Palazuelo bought the complex for \$405,000 at a tax foreclosure auction, and signs of his promised development have yet to rise from the rubble. His company just recently scheduled a May 16 groundbreaking for redevelopment at what was once the Packard's administration building, after telling city officials work would start last August.

Spiffing the Packard for redevelopment won't be easy. It's been about 20 years since any companies operated out of the 3.5-million-square-foot (0.33-million-square-meter) site. Before Palazuelo bought the property, city officials said razing the structures and cleaning out polluted soil from decades of industrial and heavy manufacturing operations could cost as much as \$20 million.

"There is probably arsenic and other nasty stuff. No telling what's on that site," said David Whitaker, head of the Detroit City Council's Research & Analysis Division.

Palazuelo plans to clean up and renovate buildings at the plant over the next seven years, Kari M. Smith, a spokeswoman for his Arte Express Detroit said in an email. Palazuelo's company in Lima, Peru, will cover costs of the project, which he estimated at \$350 million when he took ownership in late 2013. Palazuelo eventually plans to live at the plant, Smith said.

We are proceeding step by step in a phased development. Mr. Palazuelo has no plans to walk away from this project," Smith said in response to questions about what would happen if Palazuelo can't come up with the costs.

For now, security guards can be seen patrolling the site. Parts of the complex have been cleared and some openings have been boarded up. The company has presented initial development plans to the city.

groundbreaking The announcement follows Palazuelo's interest in an eight-story former paper company building in Toledo, Ohio, that likely would require far less work and cash to remake into 80 apartments. Smith said work on the Toledo glad he's going to do it."

building and renovations at the Packard plant will be done simultaneously.

At the Packard plant, tests have found arsenic and selenium in the soil nearby. Mounds of car tires, clothing and other refuse illegally dumped in the structures appear to have been trucked away. Some, like the burned shell of a fishing boat, still sit inside the buildings.

In October 2014, crews ripped out some of the exterior wall and upper floor supports in the main building.

That's the last time Derek Webb - whose grandmother has lived a block away from the plant since the 1950s - remembers seeing any demolition work at the plant.

Fixing up the Packard may be too much for anyone, even a rich guy, said Webb, 54.

"I thought it should have been torn down," Webb said. "If I was a millionaire, I'm not putting my money in this. I'd tear it down and make it flat land.'

The Packard Automotive Co. built the plant in 1903, but by 1954 the structure had become obsolete and Packard car production was being done elsewhere. The company would go out of business a few years later.

Detroit took over the complex in 1994 when an investor failed to pay taxes. Another company later took ownership but also would lose the property due to unpaid taxes.

Taxes are up to date under Palazuelo, according to Wayne County Treasury Eric Sabree.

"We wish the owner great success in fulfilling his development plans and returning the property to a higher use once again,³ Sabree said.

Unlike the nearly gutted Packard, renovating Toledo's 88,000-square-foot Commerce Paper building would be less daunting. Records show the building was sold March 22 for \$800,000 by its previous owners to a trustee company.

There is not much Palazuelo would have to do to that building, said Tom Gibbons, director of Toledo-Lucas County Plan Commission.

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"The bones of the building are good. The roof is good," Gibbons said.

Officials there already have rezoned the site to allow residential development and gave it a historic designation to allow Palazuelo to make use of tax credits.

"The city has done everything that he would require of us in supporting this project," Gibbons said. "We welcome it. I'm





VW's board chairman defended a the company to "unacceptable decision not to publish results of the investigation it commissioned into its scandal over cars rigged to cheat on diesel emissions tests, saying it could expose the company to legal risks.

Hans Dieter Poetsch told shareholders at the company's annual meeting on May 10 that VW had given U.S. law firm Jones Day complete independence, and that its findings were handed over and included in the guilty plea agreed with U.S. authorities.

Poetsch told shareholders in the northern Germany city of Hannover that the investigation was "one of the most comprehensive in German business history," involving interviews with hundreds of witnesses.

He said he understood why some shareholders would "want still more transparency" but that disclosing further results of the

FRANKFURT, Germany (AP) - Jones Day probe would expose legal risks.

In part, he said that is because the company has agreed not to make statements that might differ with facts stated in the plea that it painstakingly negotiated with the U.S. Justice Department. The company also faces legal proceedings in other countries.

VW pleaded guilty and agreed to pay \$4.3 billion to settle criminal charges. It has also agreed to pay at least \$16 billion euros to settle civil claims from U.S. authorities and car buyers. Seven executives have been criminally charged. The company faces criminal probes in Germany and investor lawsuits there.

The company has admitted installing software that turned up the emissions controls during testing, then turned them off during everyday driving.



Look for Orange Barrels in Oakland County

May is a busy month for road cess will be maintained throughconstruction in Oakland County.

The Road Commission of Oakland County (RCOC) reported Dan's Excavating, contractor for the Michigan Department of Transportation (MDOT), will close Adams Road between South Blvd. and Square Lake Road to through traffic in Bloomfield Township May 19-22 to facilitate demolition of the northbound I-75 bridge (located over Adams Road).

The detour for the closure is South Blvd. to Coolidge Highway to Square Lake Road, back to Adams Road and vice versa.

The bridge demolition is part of MDOT's Modernize 75 project, said Road Commission of Oakland County spokesman Craig Bryson.

Adams Road between South Blvd. and Square Lake Road carries approximately 15,270 vehicles daily. The road is expected to reopen to traffic on Monday, May 22.

Additionally, Consumers Energy will close 8 Mile Road between Chubb and Currie roads on the Lyon Township/Washtenaw County border and 9 Mile Road just west of Griswold Road in Lyon Twp. to through traffic for emergency pipeline repairs beginning Monday, May 15.

The detour for through traffic on 8 Mile Road is Griswold Road to 10 Mile Road to Beck Road, back to 8 Mile Road and vice versa, Bryson said.

The detour for through traffic on 9 Mile Road is Lafayette Street (Pontiac Trail) to 8 Mile Road to Griswold Road, back to 9 Mile Road and vice versa. The closed area is just east of Oak Creek Drive to Griswold Road; residents should use Lafayette Street (Pontiac Trail) to 9 Mile Road for residential access.

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out both projects, Bryson said. Both projects are being done under a permit issued by the RCOC and expected to conclude on Friday, May 26.

The RCOC will begin preliminary work in preparation for a construction improvement project at the South Blvd./Livernois intersection on the Troy/ Rochester Hills border on May 8.

Florence Cement, primary contractor for the project, began traffic signal work on Monday, May 8, in preparation for a traffic shift that took place on May 11. The traffic shift will reduce approaches to the intersection to one lane in each direction; all turns will still be allowed. Additionally, the South Blvd./Livernois traffic signal will operate one leg of the intersection at a time for the duration of the construction project.

The \$875,000 intersection project is funded with federal dollars. The project includes:

• Resurfacing and widening of South Blvd./Livernois intersection;

• Adding northbound, southbound and westbound right-turn lanes at the intersection;

New traffic signal;

• Americans with Disabilities Act (ADA)-compliant pedestrian crossings.

Even though the intersection will remain open to traffic and carries approximately 22,000 vehicles daily, motorists can expect heavy delays and are advised to seek an alternate route, Bryson said.

The intersection project is expected to conclude in mid-September. Access to residential property and businesses will be maintained during the project.



Cars like the 2017 Focus are selling for Ford in an SUV environment.

Ford Sedans Prove Popular

cars are not just young at heart; they're actually younger on average, and more affluent, according to New Vehicle Customer Study data from MaritzCX, said Ford spokesman Dan Jones.

Nowhere is this trend more evident than with Ford Fiesta ST. Jones said. While the average age of a new Fiesta buyer is 45 years old, the average age of a Fiesta ST customer is a good 10 years younger.

Buyers of Ford Focus follow the same pattern; the average age of a regular Focus buyer is 46. while the Focus RS customer is 41 on average and the Focus ST buyer is 36. Fusion customers are 48 on average, while Fusion Sport buyers are an average 45 years old, Jones said.

These millennial buyers are important to Ford. Not only are they contributing to a significant increase in sporty car sales - a 45 percent increase for the first three months of the year - younger customers give the automaker a greater chance of winning over repeat buyers, Jones said.

"With repeat customers mak-

Customers of Ford's sporty lives is good for business," said Corey Holter, Ford car group marketing manager.

Millennial customers arrive at dealerships with money to spend, Holter said. While household income for the average Fiesta buyer is \$59,000, for Fiesta ST, that figure jumps to \$102,000. The average Focus buyer has a household income of \$63,000, while Focus ST and Focus RS customers show markedly higher household incomes - on average, \$108,000 and \$169,000, respectively (data for Focus RS is limited and not statistically significant).

And with car segments on the wane industrywide as buyers toward SUVs shift and crossovers, sales of Ford's hot hatchbacks – Fiesta ST, Focus ST and Focus RS - are continuing to buck the trend, as the company reported late last year, Holter said.

An interesting side note to this is that all of the performance models are EcoBoost. In the case of the Fusion, many buyers opt for EcoBoost engines in non-performance vehicles, but even the ing up around half of industry EcoBoost Mustang has a younger

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sales, capturing younger buyers buyer on average (41 years old) while they still have many vehi- compared to non-EcoBoost Muscle purchases remaining in their tangs (44 years old).

Ford Enjoying Stong Sales in China

Ford is continuing to show strong sales in the Chinese market, according to the company's April sales figures.

"Ford sales bounced back strongly in April in China with gains across our lineup. The overall market remains strong and we expect to gain momentum as the year continues as we launch new products and new models to our existing lineup, like the Edge Eco-Boost 245 Sport and Focus CTCC Edition," said Peter Fleet, vice president, Marketing, Sales and Service, Asia Pacific, Ford.

In April Ford sold 93,967 vehicles in China, Fleet said. That's an increase of 11 percent compared to April 2016. Of that number fully 1,648 were Fords made outside of China.

Fleet said that the Lincoln brand is also enjoying greater success in China. This April, Lincoln sold 4,533 vehicles, a 95 percent increase over April of 2016.

Additionally, Ford Sedans, including the Escort, new Focus, new Mondeo and Taurus, were strong performers in April, with sales up 10 percent collectively, Fleet said.

Ford SUVs also remain popular among consumers with sales of the EcoSport, Kuga, Edge, Everest and Explorer up 4 percent in April. The Ford Edge remains a top performer, with sales up 19 percent in April. Kuga sales rose 9 percent in April, with the nameplate seeing its best month so far in 2017, Fleet said.



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