

GM's Welburn Earns Black Engineer of the Year Award

General Motors Vice President of Global Design Ed Welburn received the Black Engineer of the Year Award at this year's Becoming Everything You Are (BEYA) STEM conference Feb. 7.

Some 6,500 conference attendees – students, educators and industry representatives – watched Saturday evening as GM Board of Directors member Errol Davis and Executive Vice President of Global Product Development, Purchasing and Supply Chain Mark Reuss, presented the top award to Welburn.

Welburn is the first African American to lead a global automotive design organization.

GM spokeswoman Andrea Taylor said that the BEYA's 29th annual conference was the first time a GM employee has received the top honor. Seven GM professionals took home awards this year, including the Most Promising Scientist recognition awarded to Justin McDade.

The three-day conference focused on networking and career building with a focus on the importance of hiring military veterans, Taylor said.

"This gives the students a chance to see and interact with successful engineers who were once students themselves," Taylor said.

"There is also a job fair component, so it gives companies

like GM the chance to meet with possible employees. STEM is very important to a global company like GM, and having the opportunity to show our support for STEM students is important as well."

Welburn was named vice president of GM Design North America on Oct. 1, 2003, becoming just the sixth Design leader in GM history. On March 1, 2005, Welburn was named to the newly created position of GM vice president, Global Design, and the first to lead all of the company's Global Design Centers. Welburn also serves on the company's Executive Operations Committee.

As vice president of Global Design, Welburn has created a network of 10 design centers in seven countries around the world.

He and his team of more than 2,000 men and women are responsible for the design development of every GM concept and production car and truck globally.

The Design Centers are located in the United States, Germany, Korea, China, Australia, Brazil and India.

Welburn began his General Motors career in 1972 as an associate designer assigned to the Advanced Design Studios. In 1973,

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GM Vice President and award winner Ed Welburn

Macomb Firms Recognized by County Group

Five local businesses and an organization won the annual Macomb County Business Awards presented by the Macomb County Department of Planning and Economic Development Feb. 10.

The department's director, Steve Cassin, said the awards are given to businesses that are "the best in the county."

"Businesses across the county are nominated by colleagues or other businesses in several different categories," Cassin said. "We have a panel of judges from banking, manufacturing, Macomb Community College, the service industry and government who ranked the 57 nominated businesses on a scale of one to five."

The awards were presented at a breakfast held at Cherry Creek Golf Club in Shelby Township.

Major General Gwen Bingham was keynote speaker. As Commanding General of U.S. Army TACOM LCMC, Bingham oversees more than 1,800 employees at this purchasing central for the U.S. Army, where up to 70 percent of everything a soldier wears, drives, shoots or eats is procured.

Cassin said TACOM is the an-

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Senator Probing Chance of Auto Cyber Threat

WASHINGTON (AP) – Automakers are cramming cars with wireless technology, but they have failed to adequately protect those features against the real possibility that hackers could take control of vehicles or steal personal data, a member of the U.S. Senate is asserting.

Basing his argument on information provided by manufacturers, Sen. Edward Markey has concluded that "many in the automotive industry really don't understand what the implications are of moving to this new computer-based era" of the automobile.

The Massachusetts Democrat has asked automakers a series of questions about the technologies – and any safeguards against hackers – that may or may not have been built into the latest models of their vehicles. He also asked what protections have been provided to ensure that information computers gather and often transmit wirelessly isn't used in a harmful or invasive manner.

Appearing Feb. 9 on "CBS This Morning," Markey said motorists should be asking questions because "there really aren't any clear guidelines on the books."

Markey said the movement of the automobile from the combustion engine era to the computer era carries wide implications. "No longer do you need a crowbar to break into an automobile," he said in the interview. "You can do it with an iPad."

Markey posed his questions after researchers showed how hackers can get into the controls of some popular cars and SUVs, causing them suddenly to accelerate, turn, sound the horn, turn headlights off or on and modify

speedometer and gas-gauge readings.

The responses from 16 manufacturers "reveal there is a clear lack of appropriate security measures to protect drivers against hackers who may be able to take control of a vehicle or against those who may wish to collect and use personal driver information," a report by Markey's staff concludes.

Today's cars and light trucks typically contain more than 50 electronic control units – effectively small computers – that are part of a network in the car. At the same time, nearly all new cars on the market today include at least some wireless entry points to these computers, such as tire pressure monitoring systems, Bluetooth, Internet access, keyless entry, remote start, navigation systems, WiFi, anti-theft systems and cellular-telematics, the report said.

Only three automakers said they still have some models without wireless entry, but those models are a small and declining share of their fleets.

"Americans are basically driving around in computers," Markey said.

Most new cars are also capable of collecting large amounts of data on a vehicle's driving history through an array of pre-installed technologies, including navigation systems, telematics, infotainment, emergency assistance systems and remote disabling devices that allow car dealers to track and disable vehicles whose drivers don't keep up with their payments or that are reported stolen, the report said.

Half the manufacturers said they wirelessly transfer information on driving history from vehi-

cles to another location, often using third-party companies, and most don't describe "an effective means to secure the data," the report said.

Manufacturers are also using personal vehicle data in various and often vague ways to "improve the customer experience," the report said. Policies on how long they store drivers' information vary considerably. Customers often are not made aware explicitly of the data collection and, when they are, they frequently cannot opt out without disabling valuable features like navigation.

Last November, 19 automakers accounting for most of the passenger cars and light trucks sold in the U.S. agreed on a set of principles to protect motorists' pri-

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Cars' wi-fi vulnerable to hacking?



Buick Avenir Concept

The Legacy and History of Buick's Avenir Concept

Buick's Avenir concept, introduced at the North American International Auto Show, advances a legacy of progressive concepts that stretches back to the 1938 Buick Y-Job, the industry's original concept vehicle.

That according to Ed Welburn, vice president of General Motors Global Design.

Like its predecessors, the Avenir blends exploratory styling with advanced technology to probe new directions for Buick and test features that may transfer to future production models, said Welburn.

"Buick, under the design leadership of Harley Earl, created the industry's first concept vehicle," said Welburn, "and, for more than 75 years, each new Buick concept has pushed the brand forward and influenced the industry through great design."

"From designs that push the boundaries of graceful, elegant proportions and progressive interior designs, Buick's concepts have always inspired with the relevance of a future

that is not too far away."

Welburn said the five concepts that advanced Buick's design, driver technology or powertrain technology include:

- Y-Job (1938) – Considered the industry's first true concept car, said Welburn, the Y-Job was developed by Harley Earl, GM's first design chief. It was designed solely to gauge the public's response to the innovative styling and features rather than foreshadowing a new production model.

The media immediately hailed the Y-Job as the "Car of the Future." In many ways it was, as it previewed features that would become common throughout the industry, including power windows, flush-mounted door handles, disappearing headlamps, a concealed convertible top and more.

The sleek roadster is a landmark of automotive design and, Welburn said, represents the blueprint for concept vehicle

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Welburn Named Black Engineer Of the Year

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he joined the Buick Exterior Studio where he worked on the Buick Riviera and Park Avenue. In 1975, he was assigned to the Oldsmobile Exterior Studio. There, he led the development of a number of successful production vehicles and designed the Oldsmobile Aerotech speed-record vehicle, which set two world records of more than 257 miles per hour in 1987.

He was named chief designer of the Oldsmobile Studio in 1989. Projects there included the Oldsmobile Antares concept car and the Oldsmobile Intrigue, both of which received *Auto Week* magazine awards at the North American International Auto Show in Detroit.

In 1996, Welburn began a two-year assignment at Saturn, which led to an overseas assignment in Germany where he worked on future global design programs.

Welburn was named director of GM's Advanced Design in Warren, Mich., in 1998. His team was responsible for the development of new and innovative vehicles for all GM brands. Welburn's team also led the development of all GM concept vehicles, including a new generation of hydrogen fuel cell concepts.

Welburn was appointed executive director of design, body-on-frame architectures, in January of 2002. In this position, he was responsible for the three truck studios at the GM Design Center in Warren. Projects included the HUMMER H3, Cadillac Escalade and the latest generation of full-size trucks that reached the market in 2006.

He received a bachelor's degree in 1972 from the College of Fine Arts at Howard University in Washington, D.C., where he studied sculpture and product design.

On January 25, 2009, Welburn received the Distinguished Service Citation from the Automotive Hall of Fame, which recognizes an individual's significant contribution to the auto industry.

SUVs Lead Way in Chicago Show

DETROIT (AP) – SUV sales are growing at a rapid pace – and automakers hope to cash in on the boom with some updated models at this year's Chicago Auto Show.

GM took the wraps off an updated Chevrolet Equinox small SUV. Kia showed the Trail'ster concept. It's an off-road version of the Kia Soul wagon that Kia says could be produced in the near future.

One in three new vehicles Americans bought last year was an SUV. SUV sales rose 12 percent to more than 5.5 million, outpacing car sales. Analysts say strong demand is likely to continue this year thanks to low gas prices and enticing new models.

The Chicago Auto Show opened to the public Feb. 14.

EV – Based on Bolt Concept – on Way to Orion Assembly

Yes, GM will offer the Chevrolet Bolt EV to customers.

What was a concept car just a month ago at the North American International Auto Show in Detroit will soon be a production car.

Well, maybe not exactly the car that was the concept, but certainly based on the Bolt EV.

Chevrolet Feb. 12 confirmed that it will build its next-generation pure electric vehicle at General Motors' Orion Assembly facility near Detroit.

GM North America President Alan Batey made the announcement ahead of the Chicago Auto Show.

"The message from consumers about the Bolt EV concept was clear and unequivocal: Build it," said Batey. "We are moving quickly because of its potential to completely shake up the status quo for electric vehicles."

Chevrolet officials have not put a time line on when the Bolt will be available to customers.

"The Bolt EV concept is a game-changing electric vehicle designed for attainability, not exclusivity," said General Motors CEO Mary Barra when the Bolt was introduced at the 2015 Detroit auto show. "Chevrolet believes electrification is a pillar of future transportation and needs to be affordable for a wider segment of customers."

Leveraging the industry-leading battery technology found in the Chevrolet Volt and Spark EV, the Bolt EV concept was developed as a game-changing, long-range pure electric for all 50 states, designed to offer more than a GM-estimated 200 miles of range at a target price of around \$30,000, Batey said.

The concept vehicle features selectable driving modes for preferred driving styles, such as daily commuting, and it was de-



GM has made the decision to make the concept car 2015 Chevy Bolt, here seen from front and back, a reality.

signed to support DC fast-charging, Batey said.

"We're proud that Chevrolet has decided to produce the Bolt EV here in Michigan at the Orion Assembly facility," Gov. Rick Snyder said in a statement to the media.

"Michigan unquestionably remains the global automotive leader. Chevrolet is tapping a skilled workforce that includes some of the most talented and hard-working people in the world for this cutting-edge vehicle. Chevrolet is an important part of our state's automotive history, and Michigan-made products like the Bolt EV point to a bright future as well."

Start of production and additional details will be announced later, said Batey.

GM's Orion Assembly, home of the Chevrolet Sonic sub-compact and Buick Verano luxury compact, and Pontiac Metal Center facilities are receiving a \$200 million investment to support production of the next-generation electric vehicle, Batey said.

Orion will receive \$160 million for tooling and equipment, and Pontiac will receive \$40 million for new dies.

"As one of the most environmentally progressive facilities in GM's global network, Orion Assembly is uniquely suited to

build this game-changing electric vehicle," said Doug Hanly, Orion Assembly and Pontiac Metal Center plant manager. "In partnership with UAW Locals 5960 and 653, we're committed to building the highest level of quality into it."

"This is very exciting for our members who were facing the possibility of losing that plant during the auto crisis," said UAW vice president Cindy Estrada, director of the union's GM Department.

"Our members are also proud to have their plant chosen to produce what is sure to be another popular and dynamic Chevy product rolling off the line at the Orion Assembly Plant."

Orion Assembly is powered by gas from two nearby landfills, which saves more than 6,300 tons of CO2 from entering the atmosphere annually, said GM spokeswoman Annalisa Bluhm.

It is also home to a 350-kilowatt solar array that produces the energy equivalent to power 165 homes and sends enough energy back to the grid to power about 45 homes.

Orion Assembly has a history of being green. It is the first GM facility to receive the Clean Corporate Citizen designation by the State of Michigan, and the Pontiac plant has earned the U.S. Environmental Protection Agency's ENERGY STAR Challenge for Industry three times, Bluhm said.

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Macomb Companies Honored For Their Business Successes

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chor of Macomb County's prolific defense corridor, and awards \$16 billion in contracts each year.

Huel Perkins, anchor for Fox 2 Detroit, returned as celebrity emcee and was joined by County Executive Mark A. Hackel to award recipients in six categories.

Among the Macomb businesses honored was Coliant Corp. of Warren, which won the Diversification Leader award.

Founded in 2004, Coliant started in a basement designing, manufacturing and distributing rugged electrical accessories that are intuitive and universally adaptable, according to Founder and CEO John Swiatek, who said he started out as an electrical engineer for Chrysler and decided to strike out on his own.

He worked with the Small Business Development Center in Macomb County looking to develop his own business plan. He had some custom-crafted equipment that allowed him to plug in his devices and charge them from his car. People saw that and said that's what he should make.

"Imagine you're on a week-long motorcycle trip," Swiatek said. "Now you'll have the ability to charge all your devices, such as a smart phone, using my Powerlet device. It's vibration-proof, waterproof and oil-resistant. If you're on a snowmobile and want to plug in your GPS, now you can."

Coliant also makes clothing that allows the wearer to "control" his personal climate, Swiatek said. The clothing heats or cools the wearer. He recently sold some to the Navy. They had been working since 1992 to find ways to keep SEALs warm because hyperthermia is a problem.

Coliant is also working on ways to lightweight vehicles through structural composites.

"We can lower material costs and help automate manufacturing," Swiatek said.

"We have two manufacturing

facilities – one in Sterling Heights and one in Warren. With automation, it's possible to have a manufacturing business here in Macomb County.

"I also have to say that my business was made possible because of all the entrepreneurial expertise I was able to tap here in southeast Michigan."

Another Warren firm, SkyBlade Fan Company, won the Start-Up Business of the Year award.

SkyBlade is a manufacturer of high-volume, low-speed ceiling fans that range in diameter from 12 to 24 feet, said Jon Jones, vice president of operations.

The company was founded two years ago in the basement of John Wortman.

"John is an entrepreneur," Jones said. "He is in his 30s and has a background in heating. He saw an opening in the marketplace for a complementary product. Our fans save on energy costs by recycling trapped heat and by cooling buildings. SkyBlade has moved to a 15,000-square-foot warehouse and office space."

Each year, sales have grown higher than projected, which has allowed for additional staff to be hired from the local area, Jones said. The technical nature of this industry allows them to hire architecture and engineering majors as interns from both University of Detroit Mercy and Wayne State University, giving them the necessary job skills to hit the ground running after they graduate.

Other winners included PTI Engineering Plastics of Macomb Township, which won the Champion of Workforce Development.

PTI is a custom injection molder and manufacturer of plastic components and assemblies. The firm's global customer base varies from small tier suppliers to large OEMs.

First State Bank of St. Clair Shores won the Corporate Citizen award. The bank is Macomb County's hometown bank. Since 1917, First State Bank has demon-



John Wortman, left, of SkyBlade with Macomb exec Mark Hackel

strated a commitment to its community and neighbors.

Recent community initiatives include a free mobile app called Banker Jr. to help kids save and learn money recognition and budgeting through games.

Other awards went to:

- Shelby Foam Systems, a Shelby Township company, which won the Energy Efficiency Expert award. The firm makes foam pad products for Magna Seating of America facilities that manufacture complete seat systems for global automakers.

- The Chaldean Community Foundation of Sterling Heights, which won the Model of OneMacomb award. The foundation is dedicated to advancing the needs of the Chaldean-American community.

Leading sponsors of the event included the Detroit Regional Chamber, Henry Ford Macomb Hospital, and Michigan Economic Development Corporation, as well as AT&T, Automation Alley, First State Bank, Macomb Mall and the Michigan Manufacturing Technology Center.

Warren Receives \$5 Million Check For Flood Relief

WARREN, Mich. (AP) – A Detroit suburb has received a \$5 million insurance payment to help the city bounce back from damage caused by flooding in August.

Torrential rain and flooding on Aug. 11 damaged city property at the Warren Community Center, police department and district courthouse. City Controller Rob Maleszyk told *The Macomb Daily* of Mount Clemens the payment is the first and only insurance check the city will receive for property damages.

But officials expect additional relief within the next few months from the Federal Emergency Management Agency.

Warren was one of the cities in Michigan hit hardest by the flooding last summer. More than 18,000 homes and businesses were damaged.

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Mopar Honors Warren Technician for Skill

Fiat Chrysler technicians from across the United States have received recognition in the Mopar “Top Tech” program.

For providing an elite level of customer service at FCA U.S. dealerships and for exemplifying what the brand represents, 27 technicians were chosen from a group of more than 20,000 eligible candidates who were winners of the prestigious 2014 Mopar “Top Tech” honors.

“They all demonstrate a consistently high level of commitment and dedication in the service lane,” said Pietro Gorlier, president and CEO - Mopar Brand Service, Parts and Customer Care, FCA – Global.

The Mopar “Top Tech” Program, reintroduced for 2014, rewards technicians who maintain and repair vehicles in a quick and efficient manner, delivering

superb customer service, said Fiat Chrysler spokeswoman Beth Ann Bayus. Techs also are recognized for their proficiency in areas including training and diagnostic capability.

The 27 technicians chosen to receive recognition hail from 26 Fiat Chrysler dealerships across 17 different states. The Michigan winners were Kelvin Lapham of Wayland Chrysler in Wayland and Thomas Robinson of Northland Chrysler Jeep Dodge in Oak Park.

“These technicians are our superstars of the service lane, and a big part of what keeps customers coming back to our FCA US dealerships,” said Gorlier.

“It is truly a great honor for each of these winners to receive one of only 27 Mopar ‘Top Tech’ Awards handed out in 2014. We thank each one of them for their elite customer service and our

FCA dealership partners for nurturing a fantastic work environment in which technicians such as these can thrive.”

As part of the Mopar “Top Tech” award, winners were treated to a two-day, all-inclusive trip to FCA US headquarters in Auburn Hills in January, with activities including a tour of developmental labs and the FCA US wind tunnel, a visit to the Sterling Heights Assembly Plant, and industry preview access to the North American International Auto Show in Detroit, Bayus said.

Robinson, a technician for Northland Chrysler Jeep Dodge, who lives in Warren and works in Oak Park, said, “It was great to receive this award from Chrysler. And I learned a lot. It was a way for Chrysler to show us technicians just how things are done.”

“We got to see labs, visit where the cars are built and learn about administration and how things are done. At least for me, that gave me some insight and will help me do my job better. It’s also nice to just receive some recognition. A lot of people don’t really recognize us technicians for the work we do, so when a company like Chrysler does, it feels like a real honor.”

Honorees received a plaque from Gorlier at the 2014 Mopar “Top Tech” awards banquet in Metro Detroit this January.



Warren’s Thomas Robinson was honored by Mopar.

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Ford Police Advisory Board Helps Develop 2016 Utility

Ford unveiled the 2016 Ford Police Interceptor Utility vehicle at the Chicago Auto Show Feb. 12.

This kicks off a new chapter for the utility that has changed the face of law enforcement, said Jonathan Honeycutt, Ford North American marketing manager for Police Vehicles.

Since its introduction in 2012, Police Interceptor Utility quickly became America’s best-selling police vehicle, helping Ford capture 55 percent of the U.S. law enforcement vehicle market, Honeycutt said.

The 2016 Ford Police Interceptor Utility was developed with input from the Ford Police Advisory Board to handle the extreme rigors of police duty.

In the business of fighting crime, performance and durability matter a great deal, Honeycutt said.

Ford Police Interceptor Utility is the only Pursuit-Rated midsize utility vehicle; Ford’s utility and sedan versions are the only Pursuit-Rated vehicles with standard all-wheel drive, Honeycutt said.

“Our Police Interceptor Utility is the best-selling police vehicle in America because we have a unique relationship with our customers,” said Honeycutt.

“By listening to the Ford Police Advisory Board, we have engineered a vehicle that officers love.”

The board was created by Ford to refine and develop future products that meet the needs of law enforcement agencies, Honeycutt said.

Started in 2000, it consists of a rotating panel of 25 experts from the law enforcement community.

The group has supplied Ford with customer feedback and served as a pilot group for products, programs and services.

Honeycutt said the 2016 Ford Police Interceptor Utility features a new design, as well as Available Surveillance Mode technology, which warns the driver when someone approaches the rear of the vehicle.

Upon detection, the driver’s window automatically raises and all doors lock. Ford is the first manufacturer to bring this feature to market.

As a direct response to customer feedback, Honeycutt said Ford added a liftgate release switch, accessible to occupants in the front.

It allows the rear liftgate mechanism to remain unlocked for 45 seconds before timing out, permitting officers to access the cargo area.

A rear camera with washer is standard for the 2016 model with a 4-inch screen in the center stack.

The Ford Police Interceptor Utility will come standard with a 3.7-liter V6 producing 304 horsepower and 279 lb.-ft. of torque.

An available 3.5-liter EcoBoost V6 makes 365 horsepower and 350 lb.-ft. of torque, allowing agencies to select the engine that best meets their patrol requirements.

Police Interceptor Utility’s standard all-wheel drive is designed to deliver low-speed traction and high-speed handling and stability.

Both engines have been calibrated to meet extreme test requirements defined by the Michigan State Police and Los Angeles County Sheriff’s Department.

Tests include aggressive driving on road courses and race tracks, braking and acceleration, top speed and city pursuit testing, said Arie Groeneveld, chief engineer for the new Police Interceptor Utility.

Honeycutt said Police Interceptor Utility and Police Interceptor Sedan are sold in more than 80 markets around the world.

They will be built at Ford’s Chicago Assembly Plant. Once initial work is completed at Chicago Assembly, the vehicles are transported less than a mile away to Troy Design and Manufacturing to be upfitted with law enforcement equipment.



The AAM world headquarters in Detroit with its building wrap

AAM Displays 'The Power to Drive the Industry' Theme

It's a wrap for American Axle & Manufacturing (AAM).

David Tworek, an AAM communications specialist, said the company has been a fixture of Detroit's auto manufacturing industry since 1994, and the company is celebrating that fact by placing a building wrap on the outside of its world headquarters, which borders the I-75 service drive just north of Holbrook in Detroit.

"A lot of people see our building as they drive down I-75 to get to downtown Detroit," Tworek said. "In the past, Chrysler has put giant wrap decals on the outside of its world headquarters in Auburn Hills to celebrate the company's accomplishments. We decided to do the same thing with our headquarters, starting the week of the 2015 Detroit auto show."

Tworek said many people drive by the building every day, but he said that many don't realize that it's the headquarters of AAM and that AAM is a supplier of driveline and drivetrain systems and related components for

major auto manufacturers.

AAM is a leading, global Tier-One automotive supplier of driveline and drivetrain systems and related components for light trucks, SUVs, passenger cars, crossover vehicles and commercial vehicles that is cost competitive and operationally flexible. This wrap helps promote that message, Tworek said.

"AAM moved into the building back in 2003," Tworek said. "It is just one of several buildings the company maintains in metro Detroit."

"We've received quite a few responses. They've told us they're surprised that AAM is such a major auto supplier, so putting up the wrap is working. We maintain a strong presence throughout metro Detroit, but our world headquarters is in the city, and we're proud of that fact and proud to let the world know who we are."

The 90-by-27-foot wrap will be on display through February. A tagline highlighting its core drivetrain business reads, "The power to drive the industry."

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This Weeks SPECIALS!

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- 2 Yr/24,000 Scheduled Maintenance INCLUDED!
- 7" Color Touch Screen MyLink Radio! • Rear Vision Camera!
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- 32 MPG on the Highway!

Stock#F22072 Was \$27,180

Sale Price \$22,806*

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- AM/FM/XM Radio w/CD! • 16" Aluminum Wheels!
- Tilt and Telescopic Steering Column!
- 38 MPG on the Highway!

Stock#F21968 Was \$20,920

Sale Price \$17,044*

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ACEEE Names Top Green Cars For Year 2015

The American Council for an Energy-Efficient Economy (ACEEE) has released its 18th annual comprehensive environmental ratings for vehicles.

The publication of the 2015 ratings coincides with the release of ACEEE's brand new greencars.org website that will now offer subscription-free access to all vehicle scores from model year 2000 and later, said ACEEE spokesman Patrick Kiker.

The following vehicles compose the Greenest List for 2015:

- Mercedes-Benz Smart For - Two Electric Drive Convertible/Coupe - 61;

- Chevrolet Spark EV – 59;
- Fiat 500E – 59;
- Toyota Prius C – 57;
- Nissan Leaf – 57;
- Toyota Prius Plug-In Hybrid – 54;

- Lexus CT 200H – 54;
- Honda Civic Hybrid – 54;
- Honda Civic NG – 54;
- Mitsubishi Mirage – 54;
- Ford Focus Electric – 53;
- VW Jetta Hybrid – 53.

The Mercedes Smart ForTwo Electric Drive tops the Greenest List once again this year with the highest Green Score ever, Kiker said. Consumers also had a wide choice of different green cars.

showcased advanced technologies such as four-wheel antilock brakes and a Max Trac traction control system that was a precursor of today's traction control technology that has become standard.

The exterior had a lowered roofline, restyled quarter windows and six halogen headlamps. The Silver Arrow III's plush interior eliminated the need for fore/aft driver seat movement with adjustable pedals and telescoping steering wheel – features that are common today.

- Centieme (2003) – French for the term “one-hundredth,” the Centieme was introduced in

Buick's centenary year. More than marking the brand's 100th anniversary, it help pushed Buick into thinking about how to meet the future.

The proportion, design cues and three-row seating configuration influenced the Enclave crossover that debuted about four years later, igniting the product renaissance that continues today in the Buick brand with vehicles such as the Encore small crossover and all-new Cascada convertible.

The Centieme also previewed Buick's renewed focus on interior design and attention to detail, with elements such as aluminum and wood accent trim and ambi-

Former executive vice president of Lockheed Martin Corporation Linda Gooden was elected to the board of directors of General Motors effective Feb.5.

Gooden began her 40-year career at the former Packard Electric Division of GM. She gained 34 years of experience at Lockheed Martin and held several senior management positions. In 2010, she was appointed to the National Security Telecommunications Advisory Committee by President Barack Obama.

"Linda brings proven leadership and significant experience in information technology and expertise in operations and strategic planning," said GM Chairman Tim Solso.

"Her background in the aerospace and defense industry provides a diverse perspective that will greatly benefit our board."

Under Gooden's leadership, Lockheed expanded its IT capabilities beyond government customers to international and commercial markets.

During her tenure as president of Lockheed's IT division, Gooden grew the organization to become a multibillion-dollar business. She was responsible for integrated information technology solutions, cyber solutions and services to support worldwide missions for civil, defense, intelligence and other government customers.

Gooden retired from Lockheed Martin in 2013. She currently serves on several public company boards including Automatic Data Processing, Inc.; WGL Holdings, Inc., a public utility holding company; and Washington Gas Light Company, a subsidiary of WGL Holdings, Inc.

Gooden received a computer technology degree from Youngstown State University and a Bachelor of Science degree in Business Administration and Master of Business Administration from the University of Maryland.

The addition of Gooden brings the GM Board to 13 members.



**2015 Chevrolet
Equinox**

Customers snapped up nearly 20,000 Chevrolet Equinox compact SUVs in January – a 34 percent increase over year-ago sales that made this past month the model's best January ever and Chevrolet's second-best selling vehicle, behind the Silverado full-size pickup.

Equinox's January performance builds on the momentum of five consecutive years of record sales, said GM spokeswoman Leslie Rajewski.

Annual sales in the U.S. increased to 242,242 last year, accounting for more than 9 percent of the rapidly growing compact

SUV market.

Compact SUVs eclipsed mid-size cars in 2014 for the first time to become the auto industry's largest segment.

"In one of the industry's most competitive segments, the Equinox continues to win customers with its value-driven balance of performance, versatility and personal connectivity," said GM North America President Alan Batev.

"It also represents the depth of Chevrolet's strong SUV lineup, ranging from the all-new Trax small SUV and Traverse to the redesigned 2015 Suburban and Tahoe."

General Motors was recognized as one of the 50 Best Companies for Latinas to Work For in the United States by *LATINA Style Magazine*.

The magazine's *LATINA Style* 50 Report is considered a prestigious analysis of corporate America's efforts toward promoting diversity and providing career advancement opportunities for Hispanic women, said GM spokeswoman Patricia Taylor.

LATINA Style Magazine also recognized GM's Hispanic Initiative Team (GM HIT) as one of the Top 5 Employee Resources Groups (ERGs) in the nation, Taylor said. The award ceremonies took place Feb. 5, during the 12th Annual *LATINA Style* 50 Awards and Diversity Leaders Conference in Washington, D.C.

GM has been honored on multiple occasions by the *LATINA Style* 50 Report, which results from an extensive search of more than 1,000 major U.S. companies.

"Once again we're very pleased to receive this recognition by *LATINA Style Magazine* as it acknowledges GM's commitment to Latinas in the automotive industry and their significant contributions to our society."

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36 Month Lease/10,000 Miles

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Chevrolet Makes Top 10 List for Most Anticipated Vehicles of 2015

AutoTrader.com analysts say 2015 is shaping up to be another strong sales year for the automotive industry, and manufacturers are already unveiling new vehicles to lure shoppers to their showrooms in the New Year.

To help consumers get a jump start on their shopping lists, AutoTrader.com's spokeswoman Kristin Ballard said the company's editorial team has identified the 10 vehicles that they're most looking forward to seeing on dealer lots in 2015.

"Our list includes a cross-section of vehicles we think are likely to be some of the most sought-after cars and trucks this year," AutoTrader.com site editor Brian Moody said.

"The truck segment is getting even more competitive, as several new models will be added to a lineup that already has a lot of fresh product. Several iconic sports cars are also getting a makeover, and some interesting new luxury entries will be making their debut."

In a recent poll, more than two-thirds of AutoTrader.com visitors said that it's important to be aware of new model launches and redesigns when shopping for a car. Moody said all car shoppers can benefit from staying apprised of new model launches and vehicle redesigns – "even if you're looking for used or certified pre-owned."

He said, "Many dealers may offer savings on remaining stock of the outgoing model, and this can trickle down into CPO and used as well."

"If you don't have to have the latest and greatest, cross-shopping new vs. outgoing models is a great way to get more car for your dollar."

AutoTrader's most-anticipated new vehicles of 2015 include:

- Mazda MX-5 Miata;
- Ford Mustang Shelby GT350;
- Nissan Titan;
- Chevrolet Corvette Z06;
- Jaguar XE;
- Mercedes-Benz S550 PHEV;
- Volkswagen Golf R;
- Chevy Colorado Duramax Diesel;
- Jeep Renegade;
- Toyota Tacoma.

Cyber Security Major Issue for Automakers?

CONTINUED FROM PAGE 1

vacy. The voluntary agreement was aimed in part at heading off possible legislation. Markey has said voluntary efforts don't go far enough.

The auto industry is also in the early stages of establishing a voluntary information sharing and analysis center or other comparable program about existing or potential cyber-related threats. "But even as we explore ways to advance this type of industrywide effort, our members already are each taking on their own aggressive efforts to ensure that we are advancing safety," the Alliance of Automobile Manufacturers said in a statement.

The Society of Automotive Engineers also has established a security committee that is evaluating the vulnerability of cars to hacking and is drafting "standards and best practices to help ensure electronic control system safety," the alliance said.

The Association of Global Automakers, another trade association, said the responses provided to Markey are many months old and don't reflect extensive discussions between the industry and federal technology.

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NEW ENCORE 2015 LEASE FOR 24 MONTHS \$116* PURCHASE A 2014 FOR \$18,660*	NEW VERANO 2015 LEASE FOR 36 MONTHS \$169* PURCHASE A 2014 FOR \$17,004*	NEW REGAL 2015 LEASE FOR 36 MONTHS \$209* PURCHASE A 2014 FOR \$23,514*	NEW LACROSSE 2015 LEASE FOR 39 MONTHS \$259* PURCHASE A 2014 FOR \$23,983*
NEW ENCLAVE 2015 LEASE FOR 36 MONTHS \$263* PURCHASE A 2014 FOR \$30,960*	NEW TERRAIN 2015 Must Terminate Non-GM Lease LEASE SLE-1 24 MONTHS \$87* PURCHASE FOR \$22,847*	NEW ACADIA 2015 LEASE SLE-1 24 MONTHS \$189* PURCHASE FOR \$29,376*	NEW SIERRA 2015 GMC BUSINESS ELITE DBL. CAB 1500 2WD LEASE FOR 24 MONTHS \$129* PURCHASE FOR \$25,095*

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<p>2015 XTS FWD STANDARD COLLECTION</p>  <p>37 AVAILABLE</p> <p>EMPLOYEE PRICE \$419 36 MONTH/10K PER YEAR</p>	<p>2015 ESCALADE AWD LUXURY COLLECTION REAR SEAT ENTERTAINMENT PREMIUM PAINT</p>  <p>3 AVAILABLE</p> <p>EMPLOYEE PRICE \$679 36 MONTH/10K PER YEAR</p>

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Dealers Now Taking Orders For New 2016 Cadillac ATS-V

The promise of a new Cadillac is almost here.

Cadillac dealers have begun accepting orders for the 2016 ATS-V – the brand's inaugural luxury compact performance car starting production this spring, said GM spokesman Brian Corbett.

Available in sedan and coupe forms, the twin-turbocharged ATS-V offers a dual-purpose luxury performance experience, Corbett said, adding that it's a car with "true track capability straight from the factory with sophisticated road manners."

Powered by the segment's highest-output six-cylinder engine – the Cadillac Twin Turbo rated at 455 horsepower and 445 lb.-ft. of torque – the ATS-V achieves 0-60 performance in 3.9 seconds and a top speed of 189 mph.

The Cadillac Twin Turbo engine is backed by a six-speed manual – with Active Rev Match, no-lift shifting and launch control – or a paddle-shift eight-speed automatic transmission featuring

launch control and Performance Algorithm Shift, Corbett said.

"The V-Series is the ultimate expression of Cadillac's re-ignited product substance and the passion at the core of our brand," said Cadillac President Johan de Nysschen.

"The ATS-V expands the V-Series lineup, bringing a new kind of performance character to Cadillac. Lightweight, agile and potent, the ATS-V will make an ideal pairing with the larger and even more powerful all-new 2016 CTS-V midsize sedan, which arrives later this summer."

In the U.S., the 2016 ATS-V sedan carries a starting price of \$61,460 and the ATS-V coupe is priced from \$63,660, Corbett said.

He said consumers can order ATS-Vs now through dealers and begin specifying their own ATS-V online at www.cadillac.com in April.

The vehicle is based on GM's Alpha platform and will be manufactured at GM's Lansing Grand River facility.

THE NEW PROGRAMS HAVE ARRIVED AND THE LEASE PAYMENTS ARE FABULOUS

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