

## GM Continues STEM Education Programs

General Motors is issuing a \$300,000, three-year, renewable grant for Project Lead The Way programs in Michigan.

John Calabrese, GM vice president, Global Vehicle Engineering, made the announcement Friday at Eastern Michigan University.

Jennifer Ecclestone, manager – Engineering Communication, said GM is focused on STEM outreach.

"This is a very big thing for John Calabrese and other senior executives," Ecclestone said. "It's because the United States is ranked so much lower than other countries in terms of STEM college graduates."

Ecclestone said that only 5.6 percent of U.S. college graduates have STEM degrees. That's compared with roughly 40 percent in South Korea, 25 percent in Europe and 50 percent in China.

Project Lead The Way is the nation's leading nonprofit provider of STEM curriculum for middle and high schools throughout the United States, Ecclestone said.

Unlike traditional math and science courses, Project Lead The Way's engineering and biomedical sciences curricula brings together the application of math and science principles in a real-world context, helping students develop strong critical thinking and problem-solving skills that will prepare them for college and careers, said Ecclestone.

"I am an example of someone who could have benefited from a program like this," Ecclestone said. "I was in all the advanced science classes in high school. I had planned on being a science teacher myself, but one bad ex-

perience with a teacher turned me off science."

Efforts like Project Lead the Way, Ecclestone said, can help schools and teachers avoid the kind of experience she had.

"Developing programs that create a stimulating curriculum for students in high school and middle school – and even in the future, grade school – can really help keep students interested in STEM disciplines," Ecclestone said.

"So when they go to college, they are enthusiastic and prepared for a science major because they know at the end of everything, there's some cool stuff to learn and something valuable they can do with their lives. They can be part of a creative field of endeavor and find solutions to the world's problems."

## Former American Axle CEO, NAM Chair Dauch Dies at 71

Funeral services were held Aug. 7 for Richard E. Dauch, former executive vice president of worldwide manufacturing for Chrysler.

Dauch, 71, died in his Bloomfield Hills home Aug. 2.

As a graduate of Purdue University, Dauch began his automotive career at General Motors in 1964. He later became a group vice president at Volkswagen. At Chrysler, he planned and directed the company's just-in-time materials management system.

In 1994, he co-founded American Axle along with a group of investors. They purchased production assets from GM.

National Association of Manufacturers (NAM) President and CEO Jay Timmons said Dauch was a former NAM board of directors chair in 2004 and NAM Board Member since 2000.

As part of his tireless advocacy for manufacturing, Timmons said, Dauch authored two books on the industry – "American Drive: How Manufacturing Will Save Our Country" and "Passion for Manufacturing."

Said Timmons: "Manufacturing has lost one of its greatest leaders. To the world, Dick Dauch was a titan of the auto industry, leading it to greater heights and pushing manufacturing to a new level. To those who knew him well, he was a family man with a charitable heart."

"From the moment he took the gavel as NAM Board chair, Dick spent each day providing a strong voice in Washington for manufacturers, which he viewed as the foundation of our nation's strength."

"He will be deeply missed, and the thoughts and prayers of the NAM family are with his wife



Richard Dauch

Sandy, the entire Dauch family and the American Axle team."

Dauch was named the 1996 Worldwide Automotive Industry Leader of the Year by the Automotive Hall of Fame, the 1997 Manufacturer of the Year by the Michigan Manufacturers Association, and the 1999 Michiganian of the Year by *The Detroit News*.

In 2003, he received the Harvard Business School of Michigan Business Statesman Award, the Ernst & Young Entrepreneur of the Year Award, and the Northwood University Outstanding Business Leader Award.

In 2005, he received the Legend CEO Award from Automation Alley, and in 2006, he received the Shien-Ming Wu Foundation Manufacturing Leadership Award. In 2012, Dauch was inducted into IndustryWeek's Manufacturing Hall of Fame.

Dauch stepped down as CEO of American Axle in August of 2012 and was replaced by his son, David C. Dauch.

Dauch is survived by his wife, Sandy, four children, 16 grandchildren and two great-grandchildren.

## Bosch, MIT Collaborate on Energy Science

Robert Bosch renewed its energy research collaboration with the MIT Energy Initiative (MITEI) at a ceremony in Cambridge, Mass., last week.

The agreement, signed by MIT Vice President for Research Maria Zuber and Robert Bosch President Mike Mansueti, confirms the collaboration between the two institutions and establishes a new path forward.

"To bring research from the lab to the marketplace, it's essential to have a keen awareness of the industry perspective," Zuber said. "MIT's work with Bosch is one example of how we're gaining that vital insight."

"We're extremely pleased to be continuing this productive collaboration with a company devoted to developing innovative technology for sustainable growth."

Mansueti added that renewing the MIT Energy Initiative research partnership is important because it "advances Bosch's commitment to science, technology, engineering and math – or STEM education – which Bosch supports at all levels, from ele-

mentary school children to students who are pursuing college and post-graduate education. In addition, Bosch is proud to support MIT, as it is regarded as a premier educational and research institution."

Robert Bosch, a member of MITEI since 2008, will continue as a Sustaining Member and committed another \$5 million over a five-year period to fund a research portfolio focused on energy efficiency and renewable energy research projects. In addition to the research portfolio, Bosch will continue to support competitively awarded fellowships for MIT graduate students to conduct research in various energy disciplines.

Over the past five years, the research collaboration between MIT scientists and the company's Bosch Corporate Research has focused on the search for new materials for electrochemical energy storage, thermoelectric materials for residential heat and electricity co-generation, and ultra-efficient thin-film solar cells.

"Bosch has been a strong col-

laborator in our work to advance cutting-edge energy science and technology," the MIT Energy Initiative's Director Robert Armstrong said.

"We expect our collaboration will strengthen in the years ahead as we build on established relationships and research and tackle new global challenges to create a clean, affordable energy future."

MITEI is an institute-wide initiative at MIT designed to help transform the global energy system to meet the challenges of the future.

Through research, education, campus energy management and outreach activities, the initiative uses an interdisciplinary approach covering all areas of energy supply and demand, security and environmental impact.

For more information, visit <http://mitei.mit.edu/>.

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MICHELLE MONTELEONE  
[mmonteleone@moranauto.com](mailto:mmonteleone@moranauto.com)

RICH MILNE  
[rmilne@moranauto.com](mailto:rmilne@moranauto.com)

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