BUILDING the Modern Workforce
Playground for Autonomous Vehicles

Work continues on the Kettering University GM Mobility Research Area, and recently U.S. Senator Gary Peters toured the under-construction facility in a visit to campus in June. Sen. Peters discussed how the facility will play a key role in positioning Michigan as a top destination for autonomous vehicle research.

Flint as a Hub for Skilled Workforce Development

The Brookings Institution hosted a prestigious conference at Kettering University in the spring and presented an important conclusion - that Kettering and other resources in Flint make the city a critical resource in filling growing global talent needs.

Turning Tragedy Into Inspiration

When Marie Johnson ’90’s husband died unexpectedly, she chose to press on with her doctoral studies and do something to help others. Using her husband’s data, she began working on a product that could non-invasively detect coronary artery disease in under 20 minutes.

From Automotive to the Tech Industry

As marketing director for the Internet of Things at Dell, Kirsten Billhardt ’96 learned to take on challenging projects as a student at Kettering University and early in her career in the automotive industry.

Making an impact in Silicon Valley

An extraordinary journey transformed Qasar Younis ’04 from an automobile-focused student at Kettering University to a Silicon Valley investor and Chief Operating Officer for Y Combinator.
Hundreds of Kettering University alumni returned to campus for 2016 Homecoming festivities in May. Activities included a car show, 5K fun run, pub crawl, class reunion dinner, Golden Circle Brunch and faculty poster session.

Save the date for Homecoming 2017, May 19-21, 2017!
Kettering Launches Home Loan Program to Encourage Faculty, Staff to Purchase Homes in Flint

“As an anchor institution in Flint, we recognize and take very seriously the role we can play in creating thriving and vibrant neighborhoods around us.”

—Dr. Robert K. McMahan, Kettering University President

A new Kettering University program aimed at helping employees with the cost of purchasing a home will also make a positive impact on the neighborhoods surrounding the University’s campus in the city of Flint.

The Kettering University Employee Home Purchase and Renovation Assistance Program will provide eligible employees with a $15,000 forgivable loan for purchasing and occupying a home in one of three designated neighborhoods near campus. In addition, a $5,000 forgivable loan will be available to eligible employees who already reside full-time within those neighborhoods to assist them in making exterior improvements to their property.

Two Gates Millennium Scholarship Recipients Choose Kettering University

Sebastian Horcasitas from El Paso, Texas and LaTisha Tolbert from Flint, Michigan, chose to attend Kettering University after receiving the prestigious Gates Millennium Scholarship.

The Gates Millennium Scholarship Program has funded more than 17,000 scholars since its inception. Out of 53,000 applicants, only 1,000 were awarded the scholarship this year.

The GMS covers all educational expenses for a student to pursue an undergraduate, master’s and doctoral degree. But it’s also more than a full scholarship; it’s an entry to a lifelong academic fraternity that provides academic empowerment services to encourage academic excellence; mentoring services for academic and personal development; and an online resource center that provides internship, fellowship and scholarship information.

Kettering University Baja Team Continued to Improve Throughout the Season

The Kettering University Baja team’s competition season started off rocky, but the new team proved that in the end hard work and dedication pay off.

They used their competition in April as a learning opportunity and built from these experiences to improve in their second competition in June.

The team made the most dramatic improvements in the cost (84th to 30th place), sales (86th to 56th) and endurance (80th to 33rd place) categories of the competition.

“It’s a really good feeling going along the last lap and waving your hands in the air as you cross the checkered flag,” said Eric Stuckey, Team Captain of the Kettering University Baja team. “It helps show the younger students on the team what a difference hard work makes.”
Kettering University Sigma Chi Students Helping Fellow Student Meet Grandparents for the First Time

When members of Kettering University’s Sigma Chi fraternity learned that one of their brothers had never met his grandparents, they were determined to help him.

Within nine hours, they had raised more than $1,700 to pay for a plane ticket for Dward Kue ’18 to travel to Thailand.

“I became so overwhelmed with gratitude and love that I pretty much cried for the next five minutes,” Kue said. “I only stopped for a short time to tell everyone present how thankful I was and that I loved them.”

Kettering University Students Developing 3D Printed Water Filter Adapter to Help During Water Emergencies

Two Kettering University Mechanical Engineering students are showcasing the power of 3D printing to help find a short-term solution to help Flint residents during the water crisis.

Kyle Mikols ’17 and Ryan Webster ’16 created The Trunk – a 3D-printed product that adapts one end of a hose to a home’s faucet and the other end to a compartment, that contains the water filter.

It allows residents to use any type of NSF standard filter and allows them to adapt the size to fit their specific faucet. The Trunk was created as part of their Rapid Prototyping class, but also as a submission for the American Society of Mechanical Engineers IAM3D Challenge.

Kettering Clean Snowmobile Team Finishes First in Cost, Subjective Noise Categories at Competition

The Kettering University Clean Snowmobile team finished in ninth place at the Clean Snowmobile Challenge on March 7-8 at Michigan Technological University in Houghton, Michigan.

The Clean Snowmobile Challenge is an annual competition through SAE International, hosted by Michigan Tech’s Keweenaw Research Center. The event’s tests range from a 100-mile endurance run to oral presentations to noise and emissions measurements.

The team took first in Cost and Subjective Noise and placed second in In-Service Emissions, In-Service Fuel Economy and Objective Noise. The team was also awarded the Enovation E-Controls Award and the “Most Practical Winner” award that measures the cost versus performance of the snowmobile.

Kettering Entrepreneur Society Funding Helps Students Launch Creative Business Ventures

Kettering University students received funding boosts to creative business ventures, thanks to the Kettering Entrepreneur Society.

After students presented to KES in the summer last year, four were granted seed grants totaling more than $3,300 to help them pursue their business ideas.

Eric Stuckey ’18 received $830 for his business, RigWorks. Jonathan Blanchard ’16 received $982.44 for his business, Stemletics. Jeff Lehto ’16 received $355 for his business, L&L Outfitters. Trevor Bennett ’19 received $1,154 for his business, Media Muncher.
Kettering Model United Nations Students Gain Valuable Insights at Harvard Conference

Kettering University students traveled in record numbers to participate in the 2016 Harvard University Model United Nations Conference from February 11-14. Faculty advisor Michael Callahan accompanied 19 students — the most in Kettering history — to Cambridge, Massachusetts, for the conference.

“The co-op experience and STEM mindset gave many Kettering students an upper hand to determine more realistic resolutions,” Harschal Patel said. “I strongly believe that Model United Nations exposes a student to what the world is like from a global perspective and fosters the open-minded mindset that is needed in today’s global climate.”

Additionally, students were exposed to the policy-making process which includes making agreements, consensus decision-making and negotiating amendments.

Kettering Students Earn Top Honors at 2016 International Career Development Conference

Seven Kettering University DECA students earned top honors at the 2016 International Career Development Conference in Washington, D.C. in April.

Calloway Salmon received First Place in the Entrepreneurship Challenge and was a recipient of $5,000. Michelle Michailuk and Thomas Swanson received Third Place in Entrepreneurship - Growing Your Business.

Madeline Geffert and her partner Alexander Witt received Top 10 in Emerging Technology Marketing Strategies. And Troy DeLong and Harschal Patel received Top 10 in Business to Business Marketing.

#LifeOnTheAvenue Series profiles the People and Organizations Transforming the University Avenue Corridor

The roughly 2-mile strip of University Avenue stretches past Kettering University, through Flint neighborhoods and alongside small businesses, schools, nonprofit organizations and anchor institutions.

The landscape was once dotted with blighted properties, overgrown yards and a decaying historic football stadium. In a few short years, Kettering University has been the driving force at the heart of transforming the University Avenue Corridor, leading a coalition of higher education institutions, hospitals, community members, residents, students and other partners that have proven that, together, a tangible difference can be made.

And, in a short amount of time, those efforts are becoming a model for community engagement and neighborhood stabilization in areas around the country.

Kettering University’s ‘Life on the Avenue’ story project features individuals and institutions throughout the corridor, what the area means to them and why they believe this rapidly transforming region offers great promise for the future of the city as a whole. So far the project has featured anchor institutions like Hurley Medical Center and Flint’s largest elementary school, along with a story from residents’ perspectives and a feature on a local auto shop that was kept open by a community effort.

Follow the stories by using the #LifeOnTheAvenue hashtag on social media or by visiting kettering.edu/news.
NSF Grant Will Expand Research Opportunities

Kettering University Applied Biology and Chemistry faculty members have been awarded a $270,000 grant from the National Science Foundation (NSF) to provide a new Research Experiences for Undergraduates (REU) site. The REU site will focus on utilizing plants for innovative research in order to cultivate the next generation of scientists and engineers.

Dr. Lihua Wang, Chemistry faculty member, and Dr. Jim Cohen, Applied Biology faculty member, are the principal investigators of the grant. In total, 16 faculty members from five different departments with expertise in Biology, Chemistry, Physics, Mathematics and Engineering will be involved in mentoring and conducting directed research with participants of the program. At least two faculty members from different, but complementary, disciplines will be involved in each research project.

Faculty Member Discussed Her Coca-Cola Research on BBC Radio

Dr. Laura Mebert, Professor of Liberal Studies at Kettering University, was recently featured on the BBC World Service’s show The Inquiry to discuss her research on the role of Coca-Cola in communities in Mexico.

Mebert graduated from Flint Central High School in 2001 before studying Anthropology at Albion College. From there she completed her master’s degree in social anthropology at CIESAS-Sureste in Mexico where she studied the Corporate Social Responsibility activities of Coca-Cola in Mexico. Mebert then received her doctorate at the University of Manchester in the United Kingdom.

The feature on the BBC focused on the growth of sugar consumption in Mexico through the lens of Coca-Cola. Mebert described Coca-Cola as “essentially sweet brown fizzy water” that relies heavily on marketing efforts to encourage consumption.

Accreditation of Business Program Reaffirmed

The Accreditation Council for Business Schools and Programs (ACBSP) Baccalaureate/Graduate Degree Board of Commissioners has reaffirmed accreditation of the business programs at Kettering University.

ACBSP accreditation certifies that the teaching and learning processes within the Department of Business at Kettering University meet the rigorous educational standards established by ACBSP.

“This reaffirmation of accreditation is evidence that Kettering University is committed to maintaining the highest quality business education for their students for the next 10 years, just as they have done since 1995,” said ACBSP Chief Accreditation Officer Dr. Steve Parscale.
Students in Ecology Course Create PSAs

The students in Dr. Jim Cohen’s ecology course took to YouTube to share Public Service Announcements they created on various environmental issues.

Through an effort to prepare Kettering students for their careers, the project allowed the students to gain skills in communication and information sharing that may have stretched beyond their comfort zones – and it was all for a good cause.

The students worked in groups and produced five different PSAs, covering topics of overpopulation, fracking, sea lampreys, lion conservation and the effect of Bt corn (or genetically modified corn) on Monarch Butterflies.

Faculty Member Spreading STEM in Flint

Dr. Petros “Pete” Gheresus, Industrial Engineering faculty member, hosted 82 public educators from 31 elementary and middle schools in the Flint and Genesee County area for a LEGO Robot Assembly and Programming Workshop.

More than 100 students from the same schools have also attended this workshop in past years.

“The ultimate goal of this program is to equip teachers and mentors with hands-on and project-based activities that apply basic mathematics, engineering, programming and technology knowledge to solve problems using a LEGO robot,” Gheresus said. “This knowledge can be shared with the students by incorporating LEGO robot-based activities into their curriculum or by forming an after-school LEGO robotics team to explore these ideas.”

Students Create Autonomous Technology

A group of Kettering University students can now say they’ve created something many students can’t claim – they have made an autonomous vehicle.

Eight students – broken into two groups – for their Computer Engineering senior design projects were tasked with designing a working autonomous vehicle using an RC car.

“It’s one of those projects that of course you want to work on but until someone gives you a client or a budget, it’s a fictitious, engineering bucket list item,” said Jonathan Zeiders ’16. “My first reaction to the project was ‘Wow, this is going to be fun.’ Immediately followed by, ‘This is going to be a lot of work.’ But it was worth it. The cars navigated a track on the floor, stopped before hitting a roadblock or stopped at a “red light.”
Chemical Engineering Students Practice Filtration Methods Using Beer

Dr. Jonathan Wenzel, Kettering University Chemical Engineering faculty member, wanted to incite creativity and collaboration during the filtration lesson in his Chemical Engineering lab so he unified the class around an ancient and universal nectar — beer.

The students’ task was not to drink the beer but instead filter out the yeasts in the lab. The catch: they weren’t given instructions or a step-by-step guide on how to perform the filtration.

“What we’re giving them is the opportunity to find a process on their own,” Wenzel said. “The whole goal of this project is to provide students the resources that they need to be able to go out and determine what might be the best approach to solving this problem.”

Actuarial Program Ranked Second in U.S.

Kettering University’s Actuarial Program in the Department of Mathematics is ranked second in Safeco Insurance’s latest rankings of programs in the United States.

“Our true strength is the co-op component,” said Dr. Leszek Gawarecki, Department Head of Mathematics at Kettering University. “When our students go work among actuaries, they gain a greater understanding of the career path and become highly motivated to pass exams.”

Kettering founded its actuary program in 2011 and structured the coursework to align with post-graduate certification exams. The course of study prepares students for two actuarial exams—probability (P1) and financial mathematics (FM2) — and it allows students to earn all three VEEs (Validation for Educational Experience) while at Kettering by taking courses approved and certified by the Society of Actuaries.

“When our students go work among actuaries, they gain a greater understanding of the career path and become highly motivated to pass exams.” —Dr. Leszek Gawarecki
Alumni Give Back Through Scholarships

Charlie Baker ’82 knows the meaning of perseverance from his time at Kettering University and his multiple careers over the years. His journey into engineering itself took a lot of hard work and dedication.

“If I look back on my life, Kettering was sort of a pivotal experience for me. I was out of options in a lot of ways,” Baker said.

But that didn’t stop him from going after what he wanted. He fought for his spot at Kettering (then General Motors Institute) and that changed everything.

Now, he stresses the importance of giving back. Baker and his wife, Karen Baker ’83, have endowed two scholarships so far. The first was to honor former Associate Dean of Academic Affairs William Fugenschuh, who gave him a chance at Kettering. The second is for former professor Jim Lyons, who took a chance on him and moved forward his career in engineering.

The Menchaca Family Scholarship was created by Anthony “Tony” Menchaca ’79. Menchaca has stated that he wouldn’t have been able to go to college if it had not been for Kettering University (then General Motors Institute). He believes his academic and work experiences played an important role in his initial career development.

The endowed scholarship will provide financial assistance to worthy undergraduates so that they can continue with their Kettering University careers.

Frank Hanenberger ’94, the son of Peter Hanenberger ’70, recently established the Hanenberger Family Scholarship.

The scholarship was established in recognition of the education that he and his father received at Kettering University (then-GMI). The University’s academic rigor and cooperative learning experiences helped shape the father and son into successful business and community leaders and, through the Hanenberger Family Scholarship, Frank Hanenberger hopes to provide talented Kettering students with similar opportunities to become global leaders.

Scholarship Established in Honor of Professor

Barbara McCartin, wife of former Kettering University Mathematics Professor Dr. Brian McCartin, has established a scholarship in honor of her husband, who passed away in 2016.

Brian McCartin taught at Kettering for 22 years. He was a decorated mathematician who won teaching (2001 and 2006) and outstanding research (2000 and 2010) awards at Kettering and was recognized nationally with the Chauvenet Prize in 2010 (Pulitzer Prize for Math) from the Mathematical Association of America.

McCartin was known in the classroom for distributing mathematics books to students who produced outstanding work. Despite the quantity and quality of his research accomplishments, McCartin saw himself as a teacher first. “My mother was an elementary school teacher and I always felt a bond there,” he said at the time of his retirement in 2015. “I have been a teacher disguised as a researcher.”

The Dr. Brian J. McCartin Endowed Scholarship will be granted annually to a full-time sophomore, junior or senior in good standing, with a minimum 3.0 overall grade point average and a minimum of 3.25 grade point average in mathematics. This award will be based solely on merit. Applicants must have the recommendation of two professors and/or instructors in the Mathematics Department.
Dedicated Space

Autoliv Dedicates Space

Joordi Lombarte, Vice President of Engineering for Autoliv, and A.J. Miller, HR Manager for Autoliv ASP, Inc., visited Kettering in March to dedicate the d-space.2, a technology-enabled collaborative space in the Academic Building. The room was made possible thanks to $75,000 from Autoliv.

Duane McKeachie and Robert Brown were longtime members of the Mathematics Faculty at Kettering University (formerly General Motors Institute). Duane served on the faculty from 1949 until 2006 and Bob was a faculty member from 1955 until 1995. To honor the contributions that Professors McKeachie and Brown made to the Mathematics Program at Kettering/GMI, fundraising is underway for a McKeachie-Brown Faculty Student Lounge.

To learn more about Duane McKeachie and Bob Brown, and the proposed McKeachie-Brown Faculty Student Lounge please visit kettering.edu/magazine.

GM Legacy Scholarship Has Made Big Impact

Many Kettering University alumni take that to heart. And because of that two current students are feeling the impact. Noah Rye ’19 and Faybiana Walker ’19 have been selected as the first two recipients of the General Motors Alumni Legacy Endowment.

Kettering University alumni employed at General Motors created this endowed scholarship in 2015 to provide scholarship support to Kettering juniors and seniors who have exhausted their financial resources and need additional funds to continue their education at the University.

During the kickoff on June 25, 2015, GM executives and Kettering graduates Mary Barra ’85 (General Motors CEO), Diana Tremblay ’83 (Vice President, Global Business Services), Matt Tsien ’81 (President, GM China), Chuck Stevens ’83 (Chief Financial Officer), Jim DeLuca ’87 (Executive Vice President, Global Manufacturing) and Gerald Johnson ’85 (Vice President, Operational Excellence) announced personal contributions to the endowment totaling $38,000. During the event, attendees contributed another $10,600, for a total of $48,600 raised to support students. Since then a total of nearly 200 alumni have contributed to the endowment.
Kettering University and Brookings Institution workshop in May focused on new models for skills development in industry and featured some of the top leaders and thinkers from around the country.

The workshop, entitled ‘Hacking the Skills System: Reinventing the Advanced Industries Talent Supply Chain for Growth,’ focused on the “digitization” of industry and the rise of innovative, competency-oriented approaches to education and skills training.

“Preparing individuals for careers in U.S. advanced industries requires new and radically different approaches to education and skills training,” said Mark Muro, Senior Fellow and Policy Director, Brookings Institution, Metropolitan Policy Program. “A variety of innovative education models exist that can help students and workers acquire the relevant skills and experience they need before starting their careers—or amid stream. This workshop was to help stakeholders better understand and explore those models.”

A key theme of the workshop was the fast pace with which digital technology is remaking the country’s advanced industries, including automotive, aerospace and medical device manufacturing. With software and IT transforming these industries, companies are looking for new and differently trained workers conversant with new technologies and able to work in new ways. Regional higher-education and workforce organizations are therefore challenged to respond with new approaches to producing the STEM- and tech-knowledgeable workforces needed to maintain American competitiveness.

“We were honored to host the Brookings Institution on our campus and in Flint,” said Dr. Robert K. McMahan, Kettering University President. “As the global workforce continues to
experience seismic shifts as a result of rapid technological change, we believe Kettering – with our unique and innovative experiential approach to education that combines academic rigor with applied, meaningful professional experiences – was the perfect setting for this critical dialogue.”

Flint, Michigan, is home to two institutions – Kettering University among 4-year universities and Mott Community College among 2-year programs – that fared well nationally in the Brookings Institution’s Beyond College Rankings. Both institutions have exceptional track records at delivering workforce-ready talent to the global economy.

“Flint is in fact a center of figuring these issues out, given Kettering’s leadership on industry relevant engineering education and Mott Community College’s knack for practical job training,” Muro said.

Takeaways from the session, which featured more than two dozen panelists from around the country, included:

1. Software is changing everything. Raj Nair ’87, executive vice president, Product Development, and chief technical officer at Ford, pointed out that the Ford Hybrid Fusion has 10 million lines of code and processes 25 gigabytes of data in an hour.

“As the global workforce continues to experience seismic shifts as a result of rapid technological change, we believe Kettering – with our unique and innovative experiential approach to education that combines academic rigor with applied, meaningful professional experiences – was the perfect setting for this critical dialogue.”

–Dr. Robert K. McMahan, Kettering University President
“You can’t be a mechanical engineer without knowing software today,” Nair said, noting that 95 percent of the manufacturing process is automated.

2. Digitization has created talent challenges in technical fields, including a major need for software development, computer systems analysis, programming and database administration in Michigan. Mary Gustanski ’85, vice president of engineering and program management at Delphi Automotive Systems, noted that the industry needs more applied and less theoretical software engineers.

3. New technologies require more creativity in the workforce. Along with being well-trained in specific technical skills, companies are in the market for employees who can work collaboratively, who are passionate about their work and who creatively solve new challenges that arise.

4. The advanced industry supply chain is in an experimental phase, and emphasized the need for more industry partnerships with colleges and universities, similar to Kettering’s highly successful cooperative and experiential education model.

“Kettering couples theory and practice right away, and very tightly,” McMahan said.

Featured participants were national and regional leaders in business, government and philanthropic organizations. The forum exposed participants to several innovative approaches to education and skills training, connected private- and public-sector stakeholders interested in strengthening the talent supply chain in advanced industries and shared upcoming Brookings’ research and priority actions at the national, regional and state levels.

Along with discussions and presentations, participants also toured Kettering University’s lab spaces and met with current students. The Brookings Institution is a nonprofit public policy organization based in Washington, D.C., whose mission is to conduct in-depth research that leads to new ideas for solving problems facing a society at the local, national and global level.
Finding inspiration

MARIE JOHNSON ’90 TURNED A DEVASTATING PERSONAL TRAGEDY INTO A WAY TO HELP OTHERS.

“I applied to one school, Kettering, and it was a great decision”

–Marie Johnson ’90

By Pardeep Toor
Marie Johnson (Cole) ’90 thought she would always work for General Motors. Her father was an electrician for GM. Her grandfather was a machine operator for Harrison Radiator and her great grandmother was an assembly line worker at Delco Brake. To continue this tradition, she felt that Kettering University (then General Motors Institute) was the best choice for her.

“I applied to one school, Kettering, and it was a great decision,” Johnson said. “My expectation was to work for GM someday.”

Johnson majored in Mechanical Engineering with a manufacturing emphasis and completed her co-op at Delco-Moraine GM division. Her expectations were met after graduation as she went on to work for GM in Dayton and Sandusky, Ohio, for a total of 12 years before tragedy altered the course of her career and life.

TRAGEDY TURNING TO INSPIRATION

While working at GM, Johnson married fellow GM New Departure Hyatt engineer Rob Guion. Her husband was from Minnesota and was interested in attending seminary in his home state so the couple decided to leave Ohio to return home. Johnson used the move as an opportunity to go back to school and enrolled in the master’s in Biomedical Engineering program at the University of Minnesota. Johnson then pursued her doctorate degree in digital signal process as a 3M research fellow in 2002.

“I'm not a clinician so when I started working on my Ph.D., I used my husband and collected a bunch of data on him to learn how to use the equipment and understand physiology,” Johnson said.

According to the vitals, her husband, a 6-foot-2, 180-pound father was completely healthy. However, nine months after providing preliminary data for Johnson and the start of her doctorate degree, Guion suddenly and unexpectedly died of cardiac arrest.

“I had a 4-year-old daughter and seven-week old baby when he died,” Johnson said. “I was working on my Ph.D. I realized that I’m at an intersection in my life.”

At a crossroads in her studies and life, Johnson chose to press on her with doctoral studies and attempt to do something to combat her husband’s unexpected death. Using her husband’s data, she began working on a product that could non-invasively detect coronary artery disease in less than 20 minutes.

She graduated from the University of Minnesota in 2004 but continued her product research through post-doctoral positions at 3M, Stanford University and Politecnico di Torino in Turin, Italy.

“Even with all of the other educational training, I thank Kettering for empowering me to pursue those opportunities,” Johnson said.

ACADEMIA TO ENTREPRENEURSHIP

In 2008, Johnson was recruited to design and lead a medical device incubator at the University of Minnesota. In 2010, a Qualifying Therapeutic Delivery Project Grant led her to leave the university and incorporate her venture into AUM Cardiovascular, located an hour south of Minneapolis.

“I started AUM in an outbuilding on my property. I had an intern and consultants,” Johnson said. “Now, we are considered a disruptive technology and cardiology game-changer.”

Their product is called CADence. It’s a small customized handheld device that can be used multiple times. A chip on the handheld device collects cardiovascular data from a patient and sends it back to Johnson’s servers. Doctors then view the data and provide the customers with a prompt report indicating whether or not they have obstructive, clinically significant coronary artery disease, the number one killer in the United States.

“Coronary artery disease is a treatable condition,” Johnson said. “CADence brings information to the doctor and patient in a fast, inexpensive, patient-friendly and simple-to-use way.”

AUM recently finished a 1,000 patient clinical study proving CADence is not inferior to a nuclear stress test.

“It was interesting because the artificial intelligence work that I did on my fifth year thesis at Kettering set me up nicely in terms of having a technical background,” Johnson said.

Johnson’s idea can disrupt the practice of medicine and the medical technology industry by simplifying the process and duration of medical tests. Her device could multiply the number of individuals who have access to sophisticated medical testing and save lives by promptly informing patients of any medical events or conditions.

Her company now employs 12 individuals (physicians, engineers and regulators) full-time and has raised $10.3 million in capital which, in addition to other things, was used to conduct a national clinical study that will eventually help bring the product to market in the United States.

“Traditionally, a nuclear stress test, takes three hours to perform. We are providing a handheld option that takes 20 minutes,” Johnson said. “We are at the forefront of providing affordable care to patients.”

In 2014, Johnson and her company were featured in Fast Company and she was named one of the 75 most creative people in business by the same publication. Her product launched in Germany in May 2015 and is hoping to launch in the United States in 2016.

“I would never have done it if my husband hadn’t died,” Johnson said. Through tragedy, studying at prestigious institutions and transitioning from academia to entrepreneurship, Johnson has carried with her a foundational education from Kettering that has assisted her each step of the way.

“The training I received at Kettering helped me become an inventor,” Johnson said. “At Kettering, you were required to do real engineering. The professors who taught our classes were hands-on which is different from any other university.”
U.S. Senator Gary Peters (MI) visited Kettering University in June and saw firsthand how Kettering University is playing a key role in the research and development of autonomous vehicle safety and technology.

Peters, co-chair of the Senate Smart Transportation Caucus, toured the Kettering University GM Mobility Research Area on Kettering University’s campus, which is currently being developed as a proving ground for autonomous vehicle technology. He also visited Kettering’s Crash Safety Center and SAE Motorsports Garage at the C.S. Mott Engineering and Science Center. Peters was accompanied by Dr. Robert K. McMahan, President of Kettering University.

“Michigan is home to the automakers, suppliers and research institutions that will make our state the leader in the next generation of technology-driven cars, and I am proud that Kettering University and the Vehicle City will be part of that effort,” said Peters, a member of the Senate Commerce, Science, and Transportation Committee. “The work being done at Kettering University will further solidify Michigan’s status as the auto capital of the world in this new age of mobility, and I am committed to supporting this work at the federal level.”

“Kettering University and its alumni have historically played a leading role in the development of the modern American automotive industry, and the University is building on that legacy by playing a critical role in the development of connected and autonomous vehicle technologies,” McMahan said. “Our research and development on autonomous cars will also attract economic investment and opportunity in Flint. We thank Senator Peters for his efforts on the federal level to ensure Michigan is a leader in the next frontier of automotive development.”

Last year, Kettering University received $2 million from the General Motors Foundation to construct the Kettering University GM Mobility Research Area, which will be home to an outdoor lab space and proving ground which will be used to enhance research and development of autonomous vehicles, vehicle safety standards, hybrid and electric vehicle technologies and many other uses.

Construction on the site began earlier this year. Additionally, Kettering University has received significant support from the National Science Foundation’s Major Research Instrumentation (NSF-MRI) program, which has allowed Kettering to become one of the only college campuses in the country with its own 4G LTE wireless systems. This boosts speed of data transfers and expands research and collaboration opportunities. Kettering has received seven NSF-MRI grants since 2012, more than any university in Michigan over that time period.

Kettering University’s Crash Safety Center, established in 2006, allows for research, testing and data collection on adult and pediatric vehicle occupants in frontal, side, rear and rollover crashes. Recent work in the facility has included development of a new side-impact test procedure for infant seats for the National Highway Traffic Safety Administration (NHTSA).

As a member of the Senate Commerce Committee and Co-Chair of the Smart Transportation Caucus, Peters has made the development of and investment in advanced vehicle technologies a top priority. Last year, Peters authored a provision signed into law by the President to allow states to invest in vehicle-to-infrastructure technology. Earlier this year, the Senate passed Senator Peters’ Vehicle Innovation Act to spur investments in clean vehicle technologies and support American advanced manufacturing.
Kirsten Billhardt ’96 took a risk when mid-career she switched from the auto industry to technology. But she’s never regretted it and never looked back.

Billhardt’s foundation was set at Kettering University (then GMI Engineering & Management Institute) and her engineering background helped her tackle any challenge that came her way. Now the Marketing Director for the Internet of Things for Dell, Billhardt enjoys the challenge of the constantly changing world of technology.

“It’s the biggest technology trend going on today,” she said. “Technology changes the world. It’s changing the world on a daily basis, changing our jobs, how we interact, date, hail a cab. It’s a very exciting field to be a part of that.”

Billhardt was an Industrial Engineering major at Kettering. She started with General Motors during her co-op and stayed there after graduation. That’s where her supplier quality career started, where she was on the front lines of what needs to be done in an organization.

“It was a great experience right off the bat solving manufacturing problems,” she said.

Billhardt next earned a GM fellowship and completed an MBA at Harvard. After returning to GM she started working in GM Strategic Initiatives. It was there that she worked on one of her most interesting projects, Billhardt said. She worked on fuel cell commercialization strategies and product planning of first-generation hybrid electric vehicles.

But in 2005 she got “a little itchy in Detroit.” She fell in love with Austin, Texas. She fell in love with the warmth, sunshine and the healthy, vibrant, interesting and quirky city.

“Dell was the one who took a chance on me, an ex-auto girl who had never spent a day in her life in technology,” Billhardt said. “My first job at Dell was rocky to say the least. It was challenging. You learn the business and learn it fast because you have to.”

Hard work wasn’t new for Billhardt. It was something she learned while at Kettering.

“Hard work wasn’t new for Billhardt. It was something she learned while at Kettering.”

“‘It was a great experience right off the bat solving manufacturing problems.’”

—Kirsten Billhardt ’96

“That obviously comes from those 12-week periods of a brutal class-load. When you’re out of it, you develop this inner confidence and inner strength that you can hack through anything,” Billhardt said. “So much of life is putting one foot in front of the other, gripping through. I used that for my first Dell job.”

Her first job at Dell was managing the execution of computer break/fix across nine U.S. states, Billhardt said, which was something very new to her. But she kept moving forward in the fast paced and ever changing industry and it was well worth it. Billhardt transitioned from an operations role to a marketing role.

“At Dell there’s an opportunity to change functions dramatically, moreso than at an automotive company. There’s a greater appetite to take risks, find new solutions, even start a new solution. Go for it. Go explore. Go try it out,” Billhardt said.

When facing a challenge, it’s best to take it one thing at a time – another lesson she learned while at Kettering.

“Sometimes you just have to hang on and push through the work and get to the other side. A lot of life is just hacking through and just not quitting, not getting frustrating, not turning away and not being afraid of it,” Billhardt said. “Every problem can be composed into smaller chunks and be tackled one at a time. Internet of Things is overwhelming with tons of pressure to deliver very quickly. The eyes of the company are on us. You must prioritize and work through the next thing.”

Billhardt has credentials from Harvard but she said it’s Kettering that gives students toughness, the inner-confidence and resilience. That helped her to take on a new challenge and a role in a new industry. She encourages students and alumni to remember to keep it together and embrace the fun part of the challenge. She also encourages engineers to consider the technology industry.

“It’s not front and center for Kettering students, but it’s such a dynamic area. Keep your eyes and ears open to technology-related projects,” Billhardt said, giving a few more bits of advice. “Take on the hard projects. Push yourself in school. Start to know your own limits and you may surprise yourself with what you can take on.”

“Changing the World With the Internet of Things”

By Sarah Schuch

Kirsten Billhardt ’96 started her career in the auto industry, but changed career paths and moved into the technology sector.
Younis started at Google in 2011 when his company was acquired by the search giant and his accomplishments at the internet mogul are impressive, but not as extraordinary as the journey that transformed him from an automobile-focused student at Kettering University to a Silicon Valley investor and Chief Operating Officer for Y Combinator today.

**DISCOVERING AND EXCELING AT KETTERING**

The Younis family immigrated to the United States from a farming community in Pakistan. His parents were farmers but his uncle was a chemical engineer at General Motors (GM) and sponsored them to come to Michigan.

Younis graduated from Sterling Heights High School in 1999. As a high school student, Younis worked part-time at his uncle’s law firm in Troy. The same uncle who worked at GM for 18 years began studying law part-time until he finished his degree and opened his own firm. Younis told his uncle that he wanted to work for GM and that’s when he was introduced to the possibilities at Kettering.

“So the work component was definitely the most attractive,” Younis said. “I researched Kettering and did a tour of the school and I was done looking because I could start working right away.”

Younis majored in Mechanical Engineering with minors in Economics and International Relations. He became heavily involved in the school and was elected B-section Student Government President. He completed his co-op at GM locations across Michigan but when it came time to decide on a full-time job, a potentially shaky domestic automobile industry along with advice from then Kettering President Dr. Jim John changed his course of action.

“I had offers from GM. Dr. John asked me what I wanted to do,” Younis said. “I said I really want to go abroad so he told me about this program at Bosch.”

The rotational program at Bosch would allow Younis to try different positions over multiple years culminating with an opportunity to work overseas in Germany.

“I decided not to go to GM,” Younis said. “It was one of the most difficult professional decisions that I’ve ever made because they treated me so well. If it wasn’t to move abroad, who knows how things would have turned out.”

After graduating in 2004, Younis joined Bosch in Farmington Hills, Michigan. Professionally he was ahead of schedule and was invited to travel to Japan in 2005 before potentially heading to Germany. While working in Japan, Younis decided to apply to business school.

“One of my managers said no matter how good of an
engineer you are, you need to know the non technical parts of the business,” Younis said. “Then I found out that you can apply to HBS [Harvard Business School] multiple times. You don’t get knocked for applying so I decided to apply until they let me in.”

Younis got in on his first attempt. He started at Harvard in 2006 and graduated in 2008 with his MBA. At this point he had a choice. Either go back to traditional industries or attempt to create something original on his own. The decision came down to a lesson he learned from his father in high school. “When I was in high school and watching my dad, I learned that the thing to do is be the owner of a company rather than an employee,” Younis said. “The value of the company is represented as equity.”

FROM INDUSTRY TO EQUITY
Younis interviewed with Apple, Microsoft, Google and Amazon after graduating from Harvard but ultimately chose an alternative path. In 2008, he joined Andrew Cronk ’05 and formed a crowdfunding t-shirt company in Chicago part-time. Full-time, Younis worked for Sears Holding, a holding company owned by the hedge fund that operates and invests in large-scale retail shops such as Sears, K-Mart and Lands’ End.

“Trying to do both sounded like a great plan but in hindsight it wasn’t,” Younis said. “Also I think it would have been better to start the company in Silicon Valley right away.”

In 2010, he gathered his retail experiences and discovered challenges in the process of purchasing in that it requires a cumbersome exchange of capital for goods and has a potential lag time. So Younis moved to Silicon Valley with two close friends and together they spent seven months in 2010 working on a mobile wallet. However, their true break was a byproduct of this application.

While they were pitching their idea to a large corporate restaurant chain, they concluded the meeting by asking a very simple question: what other challenges do you have? The company was sincere in its answer. They had trouble gathering feedback from individual store locations across the country because they were currently requesting customers to complete physical comment cards, which were then confidentially sent to a third-party evaluating firm, who then compiled the data and sent back a report to the corporate headquarters. Considering the scale of the restaurant chain, this process was labor intensive, potentially subject to corruption by middle management and produced a low yield rate.

“Big companies do feedback at scale,” Younis said. “We can blow this out of the water with a couple of simple applications.”

Recognizing the problem and the potential solution, Younis and two of his friends quit their jobs in Chicago and moved to Silicon Valley in 2010 to work on TalkBin, a digital feedback mobile application initially designed for restaurant owners. They received their first round of funding from Y Combinator and TalkBin evolved into a platform where a potential customer can directly interact with the owners of a

“Very clearly highlight that Kettering is not a normal University, you want to build a company, you can build it here at Kettering immediately. You can start working on your company right away. It's a truly marketed advantage.”

–Qasar Younis ’04
business through text message and then through iOS and Android apps. The purpose was to bridge the gap between customers and businesses. What they found was more important than feedback itself, was just the ability to message to businesses directly from your phone.

“You should be able to text any business at any time on any square inch of the planet,” Younis said. “That was the thesis of TalkBin. Every single square inch of the earth has an owner that could be contacted.”

In 2011, Younis and his team were approached by some senior managers from Google Maps. They were very interested in TalkBin and its potential global applications. The meeting with the investors lasted a couple of hours and concluded with a promise to discuss a potential acquisition.

“The acquisition offer was a surprise, we thought we were there to talk about a partnership. Google was pretty aggressive and it made sense for us,” Younis said.

Starting in Spring 2011, Younis began a three-and-one-half-year journey working for Google as part of the acquisition. At the end of these three years, Younis was leading hundreds of people and was the product lead for everything on the business facing side of Google Maps.

“Our team’s success was mix of luck and competence, like everything in life,” Younis said.

BACK TO THE START-UP LIFE

In 2013, while still working at Google, Younis often returned to Y Combinator, the original investor of TalkBin, to mentor start-ups. He invested his free time to help ideas materialize into businesses and often personally invested in the companies he believed in.

“Y Combinator is a small organization,” Younis said. “At that time you are talking 10-15 people.”

In 2014, he left Google and became a full-time partner with Y Combinator. In August 2015, he was promoted to Chief Operating Officer to manage events, operations, software, and advise start-up companies.

Y Combinator funds companies in batches and often this start-up money gives founders an opportunity to potentially quit their full-time jobs and focus exclusively on their entrepreneurially project. Michael Duncan, Younis’ fellow 2004 graduate from Kettering, is the founder of Bankjoy which recently received funding from Y Combinator.

“You can have an application with zero users and have 100 million users at the end of the six months and that’s never been possible in the history of mankind,” Younis said. “In the next five years, there’s a good chance that there will be a company worth a billion dollars that has one or two employees.”

Younis believes that Kettering has a role to play in this start-up ecosystem that is potentially resulting in a new billion-dollar company being founded each month.

“Very clearly highlight that Kettering is not a normal University,” Younis said. “You want to build a company, you can build it here at Kettering immediately. You can start working on your company right away. It’s a truly marketed advantage.”

Younis hopes that Kettering will continue to build deeper relationships with the entrepreneur community just like they have done with co-op partners over the past several decades. One day he envisions an investment office at Kettering to complement the co-op office.

“There is no reason to believe that in the future, startups will only exist in Silicon Valley,” Younis said. “The huge amount of engineers in Michigan along with institutions like Kettering create a great environment for new technology giants to emerge.”
Sonia Syngal ’93 is a creator at heart, and that desire has shaped her career.

As she moved from the automotive industry to technology and finally the apparel industry it was the engineer’s imperative to express science through a design sensibility that captured her imagination.

Syngal joined Ford Electronics, first for her co-op then eventually full-time. After a few years she left Ford, moved to California and earned her graduate degree at Stanford University. From there she pursued a 10-year career with Sun Microsystems.

“It was an amazing time to be in the heart of Silicon Valley: right during the first dot-com boom,” she said.

Syngal, who was named the new global president of Old Navy, Gap Inc. in April, led a successful engineering and technology career, but she was looking for something that would tap into her creativity.

Before becoming the new global president, Syngal was EVP of Global Supply Chain and Product Operations for Gap Inc.

“It felt more like a hobby at the time. But in hindsight I liked both the right brain and left brain of creating and commerciality with tangible products.” — Sonia Syngal ’93
“I stepped back and reflected on what I wanted to do at 35 years old. I thought a lot about when I was in my teens, when I did a lot of designing and making of my own clothing,” Syngal said. “I wanted to get back into that creative environment.”

Growing up in Montreal she would create her own clothing. Around the age of 12, her aunts taught her to sew and her obsession began. She made her own clothing, clothing for her family and prom dresses for friends.

“It felt more like a hobby at the time. But in hindsight I liked both the right brain and left brain of creating and commerciality with tangible products,” Syngal said.

Since arriving at Gap Inc. in 2004 Syngal has served in key leadership and general management roles across the company. She has been based in both San Francisco and London where she held the role of Managing Director for Gap Inc.’s portfolio of brands in the European market. It was during this time she launched Banana Republic in France, Gap in Italy and then later, in her role as SVP of International, Old Navy in Asia. When she acted as the company’s Chief Supply Chain Officer, Syngal’s organization spanned worldwide across 17 countries employing several thousands of employees and was responsible for a significant portion of the company’s operations and budget. She reported to the CEO and was responsible for transforming the company’s Product to Market model.

“We make millions of pieces of clothing a day. There are a lot of common challenges and business priorities between the apparel, automotive and computer industries,” Syngal said. “I found enormously transferable skills between each one.”

But working at Gap Inc. is about more than making clothes.

“Gap Inc. is close to my heart. I love the culture. And culture matters,” Syngal said. “It is a mission-based company focusing on social responsibility and quality. I work across all of our brands from Old Navy, to Gap, to Banana Republic, to Athleta and Intermix. My job is global and it’s very engaged in the world on the business side with positive impacts in the communities where we manufacture.”

Looking back Syngal is clear Kettering had a significant impact on her career by laying a solid foundation. It instilled skills in her that she would use in the entirety of her career.

“Kettering teaches you how to work. You work 48 weeks out of the year, either at school or in employment. That rigor and discipline is a real advantage at Kettering. The core jobs that create value in industry are well taught at Kettering. My joy in making things was well nurtured there,” Syngal said. “I went on to further my education at Stanford, but my Kettering education was probably the most formative in terms of shaping my future.”

Now more than ever engineers are needed almost everywhere. Syngal encourages students to look for the unusual opportunities.

“Engineering is everywhere. There is a need for engineering skills in every single business that exists on this planet,” she said, adding that there are several hundred engineers at Gap who are involved with not only coding and designing websites, but also with innovating the way product development, manufacturing, sourcing and distribution centers work together.

It is clear being at Gap Inc. has given Syngal the design focused creativity she has always searched for and which she finds “extremely satisfying.”

“Combine a great engineering education with what you’re passionate about. I think you will find great success in life.”

“Kettering teaches you how to work. You work 48 weeks out of the year, either at school or in employment. That rigor and discipline is a real advantage at Kettering. The core jobs that create value in industry are well taught at Kettering. My joy in making things was well nurtured there”

–Sonia Syngal ’93
Entrepreneurial Spirit Helps Graduate Create Cycleboat Company

Nate Wilson ’08 doesn’t know if he was ever truly meant to be an engineer. But the journey through Kettering University and Electrical Engineering led him to new and unique business ventures that have made life fun and meaningful.

One of his newest journeys took him down the Tennessee River in Chattanooga, Tennessee, on a cycleboat. As a way to help grow tourism in an area he fell in love with and as a way to showcase the beauty of the river, Wilson has launched Chattanooga Cycleboats.

“I was definitely taught as a student at Kettering to think outside the box. It drove some creativity,” Wilson said. “The capstone classes are a great example. You’re given a problem and you’re asked to think of a solution, which leaves a number of possibilities.”

Read more: https://news.kettering.edu/news/kettering-university-graduate-driven-entrepreneurial-spirit-creates-cycleboat-company

A Unique Engineering Venture – Dog Agility Training

Dog agility competitions and engineering are not necessarily the most common fit. But for Rhonda Koeske ’90, they’re a perfect mix of skills and passion.

What started as a hobby has turned into an obsession and a career. After years of training her own dogs and participating - and placing - in many competitions across the country, Koeske decided to start her own dog agility training business.

“You get pretty passionate and pretty technical and analytical about it. It’s pretty fun,” Koeske said.

Read more: https://news.kettering.edu/news/kettering-university-graduate-tests-engineering-skills-unique-business-venture-dog-agility

Kettering Gave Graduate Confidence to Start a Business

Nicholas Pidek ’14 considers opening a coffee shop a dream come true.

But it was more than that to him. It was a way to foster community, bring people together and create success throughout the community. And even though his journey to Kettering University was an interesting one, the Business Department helped instill knowledge, problem solving and, most importantly, hard work to make it all possible.

“One of the things I think is the greatest advantage of Kettering is the ability to have such great access to professors,” said Pidek, co-owner of Foster Coffee Company in Owosso.

Read more: https://news.kettering.edu/news/skills-learned-kettering-university-gave-graduate-confidence-start-his-own-business

Combining Passions at General Motors

Sabin Blake ’99 has had a unique opportunity during his career at General Motors – he’s been able to turn his passion for volunteerism and community involvement into an actual role and department within the company.

Blake, Community Outreach Manager for General Motors and the teamGM Cares program, began his career with GM as a 17-year-old freshman co-op student in the Buick marketing division. His experiences at Kettering – both academically and through participating in many extracurricular activities – prepared him for a wide range of opportunities in his career.

“Co-op absolutely prepared me,” Blake said. “I was able to hit the ground running when I graduated.”

Read more: https://news.kettering.edu/news/flint-native-and-kettering-graduate-has-combined-personal-and-professional-passions-role
Class Notes:
Submit Class Notes online at www.kettering.edu/alumni.

1971
James Svoboda, Associate Professor and Associate Chair of Electrical and Computer Engineering, was named professor emeritus at Clarkson University’s 123rd Commencement on May 7. He was honored for more than 37 years of exemplary service to the university.

1974
Jack Baldwin retired from GE Aviation at the end of February 2016 after 26 years.

Jack Lettiere, former New Jersey Department of Transportation Commissioner and American Association of State Highway and Transportation Officials President, was appointed to the board of directors for TransSystems Corporation.

1977
John Cavanaugh retired from Electro-Motive Diesel, Inc. in December 2015 after 43 years of service and is enjoying retirement.

1978
Thomas Knoll retired after 41 years of service on January 1, 2015. He spent his entire career at the old New Departure-Hyatt division plant in Sandusky, Ohio.

Michelle Van Hecker worked in the automotive industry for 35 years. She recently designed a replica of Frank Lloyd Wright’s. Turkel House, made with 50,000 LEGO pieces. The project took her more than 2,000 hours spread over two years to complete. She started creating LEGO installations about 40 years ago, and has used about 13 million pieces for her creations.

1979
Jack VanDyke retired with wife Carmen to Tucson, Arizona, and has been motorcycling around the Southwest.

1980
Mike Patrick became the first swimmer in the history of Canada to swim the 100-meter freestyle in less than a minute completing in the 60-and-over age group.

1985
Mary Gustanski started her career with Delphi, then AC Spark Plug Division of General Motors, in 1980 as a co-op student. Since then, she has progressed through the company holding several engineering and manufacturing positions. Mary was named as one of the “100 Leading Women in the North American Auto Industry” by Automotive News. She holds a bachelor’s degree in Mechanical Engineering as well as a master’s degree in Manufacturing Management, both from Kettering University.

1986
Mike H. Train has become Emerson’s executive vice president and group business leader of Emerson’s newly structured Automation Solutions business. Train joined Emerson in 1991 as an international planner and in 1994 he moved to Hong Kong to become the vice president of planning and development for Emerson Asia Pacific. Later, he served as president of Emerson Japan, and in 1997 he returned to St. Louis as vice president of corporate planning and international. In 2002, Train returned to Asia to lead the Process Management unit there.

1989
Kathleen Balota, a Kettering University master’s graduate and dedicated author, has completed her new book *The Ethical Business Woman*: a tale of a woman who creates an extravagant and well-executed lie to hide a job loss and ends up gaining endless opportunities until the truth is discovered.

Benoit Brossoit is the new president of Bombardier Transportation’s Americas Division, where he will oversee all engineering, project, production, business development and stakeholder-related activities. His career spans more than 25 years in various leadership roles and includes companies like General Motors and Pratt & Whitney Canada.

Rick Demyunck has been named Plant Manager for GM Lordstown.

1995
Brian Pour was promoted to Chief Operating Officer by the leading automotive interior components supplier, International Automotive Components (IAC). In his new position, Pour is responsible for aligning and advancing the company’s Operational, Commercial and Engineering disciplines to drive further operational efficiencies and world-class quality performance across the global organization. Pour previously was IAC’s Senior Vice President of Manufacturing, a global role in which he served since 2015. Prior to that, he was Vice President of North Asia, responsible for the company’s Commercial, Engineering and Manufacturing operations across China, Japan and Korea.

1999
Mark Roden, Senior Manager of Electronic Component Applications at Magna Electronics, has become a member of Vistage Michigan, an affiliate of the world’s leading chief executive organization. Vistage International, Vistage Michigan provides business leaders with access to new business perspectives, innovative strategies and actionable items. As a member of Vistage Michigan, Roden will join an advisory board of executive peers who meet in small groups, nine times a year, to help one another make better business decisions and achieve better results.

2000
Jeffrey Peterson, engineering group manager, full-size & mid-size truck bumpers/fascias/grilles, General Motors, received the Modern-Day Technology Leader Award at the 2016 Black Engineer of the Year Awards (BEYA) STEM (Science, Technology, Engineering and Math) Conference held in Philadelphia in February. Peterson’s work on key GM vehicles including the Chevrolet Silverado and GMC Sierra has distinguished him among his peers in the automotive engineering community.

2002
2007
Beth Fiedler, PhD, has written her third academic book, entitled Managing Medical Devices within a Regulatory Environment, which will be available this fall through Elsevier.

2012
Racquel Lovelace started as a co-op with STEMCO in her freshman year and remained there through her entire undergraduate career until she was hired full-time as a product engineer. Now, she’s decided to do something different and is planning to move to Australia for a year with the help of her company. She will be working off-site for STEMCO while she lives abroad.

IN MEMORIAM:
Kenneth K. Aiman ’50
Robert J. Allen ’60
James T. Baker ’50
Jack W. Baker ’53
George J. Beilis ’60
Dalton Blanche ’50
Donald R. Bowen ’61
Donald H. Bredeson ’50
Harold D. Brett ’47
Gerald J. Brooks ’70
William T. Bryant ’49
David D. Campbell ’52
Rex M. Carter ’47
Ron C. Chavey ’52
William A. Cole ’60
Edgar R. Cottingham ’55
William A. Cross ’61
Wayne L. Cummins ’43
Roberto U. Diaz ’14
William E. Douglas ’50
Charles W. Dryer ’49
Eldred E. Ehmen ’67
Frank J. Falk ’50
Gerald K. Fisher ’55
Charles M. Flowerday ’41
John C. Gilbreth ’58
Charles W. Glassburn ’58
Frank M. Glick ’58
Dallas G. Gritton ’58
Clifford H. Hammer ’51
John H. Hanna ’47
Dean E. Harrison ’80
John R. Hayes ’44
William H. Heidtbrink ’49
G. W. Hendricks ’55
Dan L. Hogue ’73
John H. Hopper ’56
Walter A. Hubbard ’53
Robert M. Johns ’57
William Johnson ’58
Theodore A. Johnson ’62
James H. Karpicke ’55
Vincent W. Kasner ’55
Robert E. Katzenbach ’54
Kenneth B. Keith ’49
Wills G. Keller ’60
Bruce E. Kevelin ’57
Lance D. Kirol ’72
John D. Lang ’61
Brooks Michael Lee ’93
Wade R. Leonard ’61
John M. Love ’75
Charles D. Lyngar ’55
Roger P. Mansur ’68
Ralph A. Meyerling ’48
Anthony L. Mondon ’75
Dale F. Mueller ’56
John R. Nooney ’39
John T. O’Neill ’60
Robert A. Patterson ’69
Carl Pearson ’50
James M. Pearson ’57
Charles M. Perrine ’64
Rodney A. Pittenger ’56
Robert L. Puterbaugh ’59
James R. Reindel ’61
Gregory K. Reppart ’71
Charles E. Ruf ’49
Evan E. Sager ’64
Joseph A. Sawyer ’77
Francis R. Schneider ’52
George M. Scheiner ’50
Harold W. Shaffer ’56
Grant A. Shepard ’89
Ernest J. Singleton ’48
Frank J. Strzalka ’67
Debort J. Tickel ’52
Samuel H. Watters ’49
Claud C. Woodring ’48

UPCOMING ALUMNI EVENTS:

OCTOBER 13: Alumni Awards

NOVEMBER 3: Chicago Alumni Reception

SAVE THE DATE FOR HOMECOMING 2017!
MAY 19 – 21, 2017

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