

# Lawrence Tech<sup>®</sup>

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Winter 2015/16



## National stature: civil engineering program continues rise to the top

Detroit Center for Design + Technology opens | Architect to the stars  
Indian ambassador visits campus | LTU promotes STEAM subjects in Detroit  
Alumni News & Notes | Report to Investors | Philanthropy news, and more!

# Lawrence Tech®

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE

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**Correction:** George Fadool, BSCE'81, PE, and Ian Schonsheck, ABCT'75, BSCE'79, PE, received their bachelor's degrees in construction engineering. In the previous issue they were incorrectly identified as civil engineering graduates.

**On the cover:** Marc Kasabasic (right), a research project engineer at LTU, and student assistant Aaron Deaton monitor a rapid freeze/thaw test on prestressed concrete beams reinforced with carbon fiber composite cable. The test measures the durability of structures in extreme environmental conditions. LTU's Center for Innovative Materials Research (CIMR) has an outstanding array of testing equipment, including this environmental chamber that can simulate the long-term effects of a wide range of conditions. (Photo by Justin Munter)

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# National stature

Civil engineering program continues rise to the top



## The Center for Innovative Materials Research (CIMR) is the first building you see as you turn off Ten Mile Road into the campus of Lawrence Technological University.

“My first time on campus, I walked into the CIMR door by mistake, just like other people do every day,” said Marc Kasabasic, BSAr’11, BSCvE’11. “All the others turn around, but I didn’t when I saw all that equipment for structural testing.”

Kasabasic, who is now a graduate student in civil engineering and a research project engineer at CIMR, transferred to LTU from a large state university where he had never seen any equipment for testing bridges and structural components.

He also hadn’t had the opportunity to take a structural lab and had met only one professional engineer. “I was dealing with teaching assistants,” he said.

That all changed when he arrived at Lawrence Tech where he had personal contact with his civil engineering professors and regularly heard presentations from practicing civil engineers.

But the biggest difference was being able to see the testing of large bridge beams. “In the classroom you learn equations for stresses and forces, and then you go to CIMR and you can see what you have learned as the numbers go up on the testing equipment,” he said.

## Ranked fifth nationally

With student outcomes like this, it wasn’t a surprise when LTU’s civil engineering program was ranked fifth nationally

*LTU’s Center for Innovative Materials Research has some of the most sophisticated civil engineering testing equipment in the country, including a fire/loading chamber (at right) and an environmental chamber (center).*



for universities offering bachelor’s and master’s degrees by *U.S. News & World Report* in its annual survey of best colleges for 2016.

Ranked ahead of LTU for civil engineering were Rose-Hulman Institute of Technology, the U.S. Military Academy at West Point, California Polytechnic State University at San Luis Obispo, and Bucknell University. It was quite an accomplishment for LTU to be included in this exclusive group of universities that all enjoy national reputations.

“The strong performance of our engineering programs in this prestigious national survey reflects our ongoing commitment to enhance our engineering curricula,” LTU President Virinder Moudgil said.

LTU’s civil engineering faculty conducts a wide range of research projects – unusual for a university rated at the master’s

*Marc Kasabasic takes measurements on a concrete beam reinforced with carbon fiber prior to a test in the fire/loading chamber.*

# National stature

CONTINUED



*Dean of Engineering Nabil Grace (right) and his researchers have taken dozens of concrete beams to the breaking point in order to analyze the effectiveness of different materials.*

level – and CIMR provides many opportunities for both undergraduate and graduate students to work with some of the best research and testing equipment available.

## Building a strong foundation

The national recognition can be attributed in no small measure to the long-term efforts of Dean of Engineering Nabil Grace, LTU's only university distinguished professor and the director of CIMR. Since joining the faculty in 1988, he has attracted more than \$20 million in research grants and contracts that have made it possible to greatly improve the department's facilities. For many years he served as chair of the Department of Civil Engineering, and he has continued to do the research that attracts outside support since becoming dean of the college in 2010.

Grace pointed out that the *U.S. News & World Report* rankings are based on the opinions of other engineering deans across the country.

"We are being judged by our peers, and they know best what

*Faculty and staff members of LTU's Department of Civil and Architectural Engineering are (back row, left to right) Adam Lobbetael, John Tocco, Keith Kowalkowski, Roger Harrison, Donald Carpenter, Nishantha Bandara, Filza Walters, and Marc Kasabasic. In the front are Aslihan Karatas, Elin Jensen, Nicole Annis-Alajaj, Nabil Grace, Kathryn Pretty, Edmund Yuen, and Mena Bebawy.*

for reinforcing concrete beams in bridges. As a native of Egypt, he was struck by a problem that was unheard of in his country – the deterioration of bridges caused by the corrosion of steel after salt is used to keep roadways clear in harsh winter climates.

Replacing steel rebar in bridges with non-corrosive carbon fiber reinforcement polymer (CFRP) required new construction designs that must be thoroughly tested in the laboratory and confirmed in the field.

Over a 27-year span, Grace and his researchers have conducted dozens of studies for various state departments of transportation and federal agencies. The Michigan Department of Transportation has designated CIMR as a Center for Excellence



and has provided funding for research and then built prototype bridges to be monitored.

CIMR is a 7,200-square-foot research facility with a 30-foot clearance height. Research grants made it possible to purchase sophisticated testing equipment in CIMR, including:

- A fire/loading chamber that can reach 2300°F and simulate the effects of fire damage or heat over many years.
- A structural testing frame that places components under static and repeated loads up to one million pounds. It has a 25,000-pound crane that can handle components up to 100 feet long.
- An environmental chamber that can simulate the long-term effects of a wide range of conditions, including the sub-freezing temperatures of winter, the dry and humid heat of summer, rain, ice, and snow, and the salt and other chemical solutions used to keep roadways safe.
- MTS Model 311 Four Post Frame, which is a high-force test system used for a variety of material property tests.
- A custom-designed tensioning frame that can measure the long-term effects of creep rupture and relaxation, which is the loss of tensile strength of pre-stressing and post-tension strands under traffic loadings.
- An environmental scanning electron microscope that can quantify corrosion at a microscopic level.
- The flammability, smoke, and toxicity lab that can measure the effects of heat and fire on materials.

## Entrepreneurial education

Starting in 2002, grants from the Wisconsin-based Kern Family Foundation have added entrepreneurial education to LTU's traditional theory-and-practice approach to engineering instruc-



*LTU's Dean of Engineering Nabil Grace (left) is a nationally recognized expert on using innovative materials for bridge construction. In November, Michigan Gov. Rick Snyder invited him to attend the signing ceremony for the state's long-debated funding package for roads. Grace and Snyder were joined in this photo by Michigan Speaker of the House Kevin Cotter, Senate Majority Leader Arlan Meekhof, and Lt. Gov. Brian Calley.*



tion. In 2009, the relationship expanded with a five-year, \$1.1 million grant to further integrate the entrepreneurial mindset into the education of undergraduate engineering students.

The program was based on the premise that LTU graduates who develop an entrepreneurial approach to engineering will have more career opportunities as leaders of new companies or as managers in large organizations.

LTU was a founding member of the Kern Entrepreneurial Engineering Network (KEEN), which includes about 20 universities around the country that have received grants from the Kern Family Foundation. LTU was given the lead role in developing teaching modules for problem-based learning and active and collaborative learning that have been added to 50 courses taken by engineering students at LTU. This classroom work has been supplemented by co-curricular and extracurricular entrepreneurial activities, such as internships and industry-sponsored projects.

In 2014, LTU won a three-year \$697,000 grant from the Kern Family Foundation to support further expansion of entrepreneurial-minded learning. The freshman introduction to engineering course was modified into an interdisciplinary design studio experience that incorporates the foundations of entrepreneurial-minded learning (EML).

“Having the students solve open-ended design problems and learn how to ask the right questions of a customer are critical entrepreneurial skills that students engage in right from the beginning of their college education,” said Professor of Civil Engineering Donald Carpenter, co-principal investigator for the grant.

*Assistant Professor Nishantha Bandara and graduate student Tarik Binoy have been evaluating the long-term performance of pavement subgrade mixtures that use recycled materials such as cement kiln dust, lime kiln dust, and fly ash. The subgrade materials are subjected to numerous freeze-thaw cycles in LTU's original environmental chamber, now located in the Applied Research Center.*

# National stature

CONTINUED

*Assistant Professor Keith Kowalkowski monitors a test in LTU's flame spread apparatus, which has been used to determine fire hazards associated with materials within Army ground vehicles. The U.S. Army's Tank-Automotive Research, Development and Engineering Center in Warren has asked LTU researchers to develop a materials standard for flammability, smoke, and toxicity.*

In the 2016 spring semester a sophomore entrepreneurial design studio will be introduced as a pilot project. The next step will be to develop a new studio for the junior year that will serve as a bridge to the senior projects that all engineering students must complete.

These studios will implement entrepreneurial-minded learning that emphasizes opportunity identification and value creation – yet another approach for fostering an entrepreneurial mindset. “We are incorporating EML into core classes as well as design classes at the freshman and sophomore levels,” said Cristi Bell-Huff, director of LTU’s Studio for Entrepreneurial Engineering Design.

For the past three years LTU has hosted the Innovation Encounter competition for



*Civil engineering student Justin Becker (right) and teammates Tony Fakhouri, Nada Saghir, and Leah Batty took first place in the 2015 Innovation Encounter, a competition for members of the Kern Entrepreneurial Engineering Network.*

KEEN members, and the LTU team finished first this year. “It’s a lot of fun because of the intensity and adrenaline,” said Justin Becker, a member of the LTU team who is majoring in civil engineering.

As a junior Becker has already had two internships and in the spring semester will start a co-op job working on a \$200 million tunnel project. He believes that the entrepreneurial education he has received at LTU gives him an edge.

“I’ve learned so many ways to go at a problem. I don’t try to go right to the solution,” Becker said. “Going through a set of steps gives you more options.”

## Adding a new dimension

This year LTU added architectural engineering to civil engineering to create the Department of Civil and Architectural Engineering.

For many years Lawrence Tech offered a degree in architectural engineering, but in the late 1960s it evolved into the bachelor’s program in architecture in LTU’s College of Architecture and Design. Six years ago the College of Engineering introduced a five-year, fast-track program for a master’s degree in architectural engineering. It’s the only degree program of its kind in Michigan and one of 25 programs across the country.

The degree program combines an architectural design core with an engineering curriculum. Graduates of the program are equipped with the engineering skills to create structures, and they also have a good understanding of what an architect is try-





*In LTU's Lighting, Electrical and Daylighting Lab, Architectural Engineering Director Filza Walters discusses how building elements can affect the use of natural light with members of LTU's student chapter of the Architectural Engineering Institute (left to right), Sandy Yousif, Erin Moran, Sydney Kieler, and Evelyn Edwards.*

## Connected with the profession

Associate Professor Edmund Yuen, chair of the Department of Civil and Architectural Engineering, said that LTU programs have been improved by the advice received from the department's advisory board of more than 20 executives and experts in the field. The group meets several times a year to discuss how classroom instruction can keep up with changes in the profession.

These busy professionals take the time to keep the civil and architectural engineering curricula up to date because they have hired LTU graduates to fill key positions and are looking for more.

That's the case for Ruby & Associates, a structural engineering firm in Bingham Farms. Founder David Ruby serves on the advisory board, and President and CEO Tricia Huneke relies on LTU for both interns and new hires.

"We find LTU graduates not only technically competent but also able to put their skill set to practical use," Huneke said. "We can count on LTU as a reliable source of engineers who are ready to learn and contribute immediately." □*EP*

ing to accomplish through design.

"People in the field are realizing that engineers and architects are going to have to work closely together to figure out new solutions," said Filza Walters, director of the architectural engineering program.

As a result, some students are recruited for internships in their freshman year, and some complete three internships by the time they graduate. "These firms hire the students for internships and then do not want to let them go," Walters said.

The effectiveness of the program was demonstrated earlier this year at the national Architectural Engineering Institute Student Design Competition where LTU's team took first place in three of the five categories – building systems integration, mechanical systems design, and structural systems design.

Commenting on the LTU presentation, one judge said: "Three words, wow, simple, elegance."

LTU architectural engineering students are prepared to tackle complex problems because many professionals share their knowledge as adjunct professors and guest lecturers.

"I love the professional connections that we have here," said architectural engineering student Quinn Williamson. "Lawrence Tech focuses on professional development, so we're getting ready for what we will be doing in the real world."

*Edmund Yuen, chair of the Department of Civil and Architectural Engineering, and students Ethan Park and Oras Touma discuss what to look for in a model that is used for a hydrodynamics course.*





# Center of **Synergy**

New location in Midtown Detroit creates more opportunities for LTU students

*Detroit City Council President Brenda Jones (left) helps cut the ribbon to officially open LTU's Detroit Center for Design + Technology along with LTU President Virinder Moudgil, Architecture and Design Interim Dean Amy Deines, and Board of Trustees Chairman Douglas Ebert.*

*“D*etroit has always been in Lawrence Tech’s backyard, and now it’s right outside the front door.”

That’s how Kristin Lusk, BA’15, described the significance of the opening of LTU’s Detroit Center for Design + Technology (DCDT) at the Oct. 30 ribbon-cutting ceremony held in the Woodward Willis Building at 4219 Woodward Ave.

The DCDT is the anchor tenant in the new building at the corner of Woodward and Willis in Midtown Detroit. It has a long-term lease on 8,000 square feet, and plans are in place to add up to 6,000 square feet as future needs develop.





*LTU's Detroit Center for Design + Technology is the anchor tenant in the Woodward Willis Building in Midtown.*



*Amy Deines, interim dean*

Lusk is on the DCDT staff as the coordinator of outreach efforts for K-12 STEM education in Detroit, just one of several LTU programs that will be more effective at the new location in the heart of the city.

The DCDT opening also represented a homecoming for the University. Lawrence Tech was founded in 1932 on the grounds of the Ford Model T plant on Woodward Avenue in Highland Park, less than five miles north of LTU's new location in Midtown Detroit.

The Midtown location also gives the University a much higher profile as thousands of city dwellers and commuters will pass by the center every day. The new M-1 rail will also be right out the front door, and there are a number of new construction and redevelopment projects in the neighborhood.

By bringing several of the College of Architecture and Design's urban programs together, LTU's Detroit Center for Design + Technology will provide:

- An urban setting for University courses in urban design, architecture, graphic design, and industrial design.
- A permanent exhibition space for the presentation of contemporary ideas in architecture and design.
- A new design incubator that will help entrepreneurs turn their design-based ideas into new businesses.
- Support for LTU's outreach to STEM- and STEAM-oriented schools in the region.
- A common meeting place for LTU students and other DCDT tenants involved in architecture, design, engineering, and development.

### **Making the move downtown**

For the past two years, the planning to make the DCDT a reality has been led by Professor Amy Deines, first in her role as associate dean of the College of Architecture and Design and now in her new role as interim dean.

"We feel there is a dramatic cultural shift taking place that will support the major com-

mitment LTU is making to the revitalization of Detroit," said Deines, who is also executive director of the DCDT.

The creation of the center has been the result of strong support from several partners. Midtown Detroit Inc., under the leadership of Sue Mosey, put together the \$7 million construction project with LTU as the anchor tenant. The Kresge Foundation got the ball rolling with a grant of \$300,000. The Community Foundation for Southeast Michigan added \$50,000 for programming, and the Hudson-Webber Foundation awarded a \$300,000 grant to support the new Design Incubator.

The vision that Deines has defined for the center is on the wall in the lobby for all to see: "Our goal is to actively engage the civic and social awareness of our students and give them opportunities to become involved in projects that will have a positive impact on the city and its residents."

Deines estimates that close

*LTU Trustee John Petty (center) was part of the crowd for the ribbon-cutting ceremony for LTU's Detroit Center for Design + Technology.*



## Center of *Synergy*

to 100 LTU students will be taking classes at DCDT on a weekly basis during the spring semester that begins in January. They will have many opportunities to cross paths with the center's other tenants – Invest Detroit, AIA Michigan, AIA Detroit, SME, the Urban Land Institute of Detroit, and the local chapter of the National Organization of Minority Architects.

"It is unique for an architecture and design school to have such a strong physical connection with professional associations and firms," Deines said. "We forged these relationships to bring future architects into contact with like-minded professional people. We can't anticipate all the connections that will be made, but we expect it to be an enriching educational experience for our students."

### *Detroit-based studios*

For more than four decades, professors in LTU's College of Architecture and Design have conducted studios in Detroit to give students an added appreciation of urban issues. The center creates new synergies by bringing all its Detroit-based courses together under one roof. "Having these programs housed in



multiple locations has inhibited the synergy among them and lowered their potential community impact," Deines said.

The highly regarded Detroit Studio was founded in 1999

to serve neighborhoods, the design professions, and citizens, and for many years the University had studio space on West Grand Boulevard. Directed by Professor Joongsuk Kim, LTU's longest-running studio course based in Detroit provides students with an enriched educational experience through architectural, urban design, and local development projects pursued in partnership with community groups in need of design ideas.

In keeping with LTU's theory-and-practice motto, these students learn about urban design by practicing it in a real-world setting in Detroit or a nearby suburb. In the process, the students provide valuable information and proposals to neighborhood groups, municipalities, and the business community.

"Through the Detroit Studio our students can help stimulate urban economic development and propose possible solutions to critical urban problems," Kim said. "Our students often develop mutually beneficial relationships with community stakeholders and citizens."

In recent years, the College of Architecture and Design opened a downtown exhibition gallery and DetroitSHOP, an interdisciplinary design studio that part-

*LTU President Virinder Moudgil discusses the importance of the University's greater presence in Detroit with reporter Vickie Thomas of WWJ Newsradio 950, one of several major media outlets to cover the ribbon-cutting ceremony.*

*LTU Professor Joongsuk Kim, the director of the Detroit Studio, talks with several architecture students about one of the models on display for the DCDT opening.*



# “Through the Detroit Studio our students can help stimulate urban economic development.”

ners with private-sector and corporate leaders to explore long-range visions for the city’s urban core. Professors have also held studios at Ponyride, a business incubator in Corktown.

Students are motivated to participate in Detroit-based studio courses by the desire to see firsthand what they are studying while also participating in Detroit’s growing arts and cultural scene. When these students are given the opportunity to try to make a difference in the lives of disadvantaged communities, they end up big winners because the experience they gain in the real world enhances their education in the classroom.

“DetroitSHOP was my favorite experience as an undergraduate,” Lusk said of the studio course she took in the city. “You’re completely immersed in the culture and you actually have a presence in the space you are designing. You get face-

to-face connections, political background, economic and social aspects as you walk around. You’re invested in the culture you see on the street.”

This fall graduate student Gjergji Prendi, BSAr’14, who is the student government president, took the detroitSHOP design studio that was in a temporary space downtown. He valued the tangible connection to Detroit’s urban environment that the course provided, and thinks the new center will make that experience even more valuable.

“DCDT is not only a physical space that connects us with Detroit, but it is also provides an intangible opportunity that I think every LTU student needs to grasp,” said Prendi, who attended the ribbon-cutting ceremony.

## Adding new programs

The center will also enhance the academic programming that faculty members provide to elementary and high school students in Detroit. At Denby High School, pre-architecture courses are taught by LTU faculty members, providing math and art credits. The outreach project is to encourage interest in architecture while also helping high school students to prepare for the big academic jump to college.

That preparation will begin even earlier at the Sampson-Webber Leadership Academy. Over the summer LTU and the Detroit Public Schools announced the Blue Devil Scholars program for providing instruction in science, technology, engineering, art, and math, the STEAM subjects, to middle school students. Plans are underway to include younger students

in the future. (See page 14.)

“We are confident that students who successfully complete the Blue Devil Scholars program will be well prepared to do well in challenging college courses as soon as they arrive on campus as freshmen,” LTU President Virinder Moudgil said.

Beginning in early 2016, LTU’s DCDT Design Incubator will provide programs and services to help creative businesses grow in Detroit. It will leverage the DCDT’s connections with the Midtown community and other Detroit neighborhoods to help those businesses grow and thrive. It will offer access to legal advice, marketing resources, and mentorship for business start-ups.

“Whether an entrepreneur is just starting out or has hit a growth ceiling and wants to move beyond that, the incubator program will provide access to resources,” said Karen Evans, the director of the Design Incubator.

LTU’s Design Incubator will also launch a fellowship program to encourage recent college graduates to start businesses and take up residence in Detroit.

The DCDT also has a gallery that will host student and faculty exhibitions, community outreach exhibitions, and the works of professionals recognized in their fields. The focus of the DCDT exhibition space will be to broaden the visual experience of the LTU community and people of Detroit.

“Ultimately, our goal is to foster learning and collaboration, and to encourage dialog about society and our diverse cultural landscape,” said LTU Assistant Professor Deirdre Hennebury, who will serve as curator of the exhibit space.

## LTU’s role in the region

Beyond all the benefits in academic programming, Deines and the other supporters expect the DCDT to increase LTU’s involvement in the search for regional solutions to the challenges facing Detroit and the southeast Michigan region.

There are plans to establish an applied research institute and the DCDT Think Tank, which will be composed of leading scholars and innovators in the region. This group of Design Fellows will provide guidance for research, help develop alternate visions for the future of Detroit and the region, and propose strategies for solving urban and regional problems.

“The problems, issues, and solutions that Detroit must confront are, as in most cities, regional in nature. The environment, infrastructure, transportation, taxation, and education are but a few of the issues that defy historic city or county government boundaries,” Deines said. “Now that LTU has a presence in downtown Detroit in addition to the strong role it plays in Southfield and Oakland County, we expect to be part of all those conversations.” □EP



Kristin Lusk

## Lawrence Tech hosts Indian ambassador to the United States

Lawrence Tech, the University of Michigan, and Michigan State University were visited by Arun Kumar Singh, ambassador of India to the United States, during a whirlwind visit to Michigan in October. He also spoke at the Detroit Economic Club where he was introduced by LTU President Virinder Moudgil.

Singh is a career diplomat who has previously served as India's ambassador to Israel and France. He has served in the Indian missions to the United Nations and Russia, and has had a leadership role in India's relations with Pakistan, Afghanistan, and Iran.

Singh's LTU visit began with a tour of the Center for Innovative Materials Research conducted by University Distinguished Professor

Nabil Grace, dean of LTU's College of Engineering.

U.S. Sen. Debbie Stabenow, Congresswomen Brenda Lawrence and Debbie Dingell, and Southfield Mayor Donald Fracassi were on hand to welcome the ambassador to LTU.

Some 600 students from India attend Lawrence Tech, and Gomanth Duvvuru, president of the LTU Association of Indian Students, also welcomed the ambassador during the program. LTU student Swapna Giduthuri sang the Indian national anthem, and Carmen Gibes sang the U.S. national anthem.

In his remarks, Singh emphasized the importance of education for the future of India. He said he is not worried about the potential

"brain drain" that can result when too many outstanding Indian students choose to remain in a foreign country after completing their education there. More students are returning to their homeland with their advanced skills, and even those who remain in other countries often return later or pro-

mote business with India.

"An emphasis on global understanding is an important aspect of the Lawrence Tech educational experience," said Moudgil. "We are delighted that Ambassador Singh included LTU in his busy itinerary." □EP



**Indian Ambassador Arun Kumar Singh (right) talks with LTU students (from left) Sowmya Tiruchengode Yegyanarayanan, Gomanth Duvvuru, and Michael Bruno.**

## Big Blue gets a rare reboot after six years

Since the fall term of 2009, the six-foot-by-six foot digital clock known as Big Blue has kept time without a hitch while looming silently over the atrium of LTU's Buell Management Building. But during the first week of classes in August the combination of a power outage in the building and a malfunction in the back-up battery system left the very reliable clock temporarily behind the times.

Assisted by students Steve Pascoe and Ashley Julin, Professor Ken Cook mounted a service lift and rose high above the atrium to open up the big face of the clock for the first time since it was installed six years ago. Replacing four AAA batteries and resetting the time was all it took to get Big Blue back in the pink.

The clock's LED lights had gone out before during power outages. The back-up battery system normally provides enough

juice to keep the clock's systems running so that the correct time will be displayed when the regular power source comes back on line. A malfunction prevented the battery system from automatically recharging itself once power was restored.

The clock was designed and assembled as part of a senior project in engineering technology by Anthony Castellucci, Jason D'Antimo, Luciano Mancini, and Daniel Peraino, all of whom earned bachelor's degrees in engineering technology in 2009.

"The students designed this clock so that it wouldn't fail, and they did a pretty good job," said Cook, who served as faculty advisor for the project. "This innovative student project is a

**Professor Ken Cook needed to make just a few small repairs to get Big Blue back in the pink.**

prime example of the skills and knowledge you will acquire in one of our engineering technology

programs."

The clock could easily have been called Big Green, because it only draws 10 watts of power, about the same as two night lights. □EP



## Faculty and staff honored for excellence

Eight members of LTU's faculty and staff were honored for excellence at the Oct. 1 Lawrence Excellence Awards ceremony in the gallery of the University Technology and Learning Center.

This year's winners of the Mary E. and Richard E. Marburger Excellence in Achievement Awards are:

- Faculty: Matthew Cole – College of Management.
- Staff: Clifton Johnson – Department of eLearning Services.
- Administrator: Aubriex Cason – Office of Admissions.

Cole was praised for his tireless dedication to his students and his supportive teaching style. Students who submitted ballots for this award lauded his innate ability to connect with them both inside and outside the classroom. He came to LTU 12 years ago as an adjunct in the College of Arts and Sciences and is now on the faculty of the College of Management.

Cason was promoted to assistant director in the Office

of Admissions in February. She is considered the ultimate team player by her coworkers and also receives high marks for being an endless source of information for students and their parents. She joined LTU's Office of Admissions in 2005.

Johnson of the Department of eLearning Services was nominated for his competence in designing, planning, and implementing the installation of new computer cabling in over 100 classrooms. He started working at LTU in 2001 as the technology support coordinator for the College of Arts and Sciences. In 2009 he joined eLearning, where his responsibilities expanded to classrooms University-wide.

This year's Marburger Champion for Institutional Excellence and Preeminence is Professor Joongsub Kim of the College of Architecture and Design. He received this award for securing and organizing the Structures for Inclusion 2015 international conference held in

Detroit in April. In addition, the related Public Interest Design Institute held its event on LTU's campus following the conference. Kim joined LTU in 2000 and has been the director of LTU's Detroit Studio for many years.

The recipient of the 2015 Teaching Using Technology Award is Associate Professor Lior Shamir of the Department of Mathematics and Computer Science. He was recognized for creating a software tool his students use to research and analyze large databases. He began teaching at LTU in 2010.

Assistant Professor Anne Kohnke of the College of Management is this year's recipient of the Henry B. and Barbara J. Horltd Excellence in Teaching Award. She is noted for providing information- and content-dense instruction and mentoring women in a traditionally male-dominated field. She has taught at LTU since 2002.

The two recipients of the Mary Ann Marcum Customer Service Award are Patrice Bennett of

Campus Safety/Mail Services and Robin Leclerc of the Office of University Advancement.

Bennett started at LTU in 2004 as a facilities worker with the Aramark Group. In 2013, she joined Campus Safety as part of the three-person team that handles mailroom activities.

In her role as director of University Special Events and Services since 2006, Leclerc supports or works with almost every office and department on campus. She also oversees the Tech Invitational, LTU's annual golf outing that has raised more than \$850,000 in support of scholarships and student projects. □EP

*Winners of this year's Lawrence Excellence Awards are (left to right) Clifton Johnson, Lior Shamir, Patrice Bennett, Robin Leclerc, Joongsub Kim, Matthew Cole, Anne Kohnke, and Aubriex Cason. To their right are the contributors of the awards, President Emeritus Richard Marburger, Frank Marcum, and Henry Horltd, along with LTU President Virinder Moudgil.*



## LTU is fifth nationally for preparing grads for high-paying jobs

A study released in May by the prestigious Brookings Institution ranks Lawrence Technological University fifth in the country among its peers for providing the most value-added in preparing its graduates for well-paying occupations. CBS MoneyWatch has hailed the leaders identified in the Brookings study as the new “college superstars.”

Brookings found that LTU added 18 percent more value – virtually the same as the California Institute of Technology – with respect to occupational earnings power compared to four-year institutions with similar characteristics and students.

The goal of the Brookings study was to go beyond the traditional rankings that reward colleges that primarily admit rich, smart

students who can be expected to do better in their careers than most college graduates. Instead, the Brookings researchers wanted to determine if colleges actually made a difference in preparing their students for successful careers.

According to smartasset.com, Lawrence Tech graduates rank third in Michigan for the starting salaries of its graduates, the average of which was pegged at \$54,300, compared to the national average of \$43,242. In Michigan, only the graduates of Kettering University and Michigan Technological University make more.

That survey supports the findings of the 2015 Payscale College Salary Report, which found that LTU graduates with a bachelor’s degree earned an average of

\$58,300 early in their careers, and \$97,600 by mid-career – placing LTU 83rd among more than 1,000 colleges in the Payscale survey. LTU has the best ranking among colleges in the metropolitan Detroit region.

The college guide valuecolleges.com ranked Lawrence Technological University 21st in the country in its 2016 Top 50 Best Value Online Graduate Engineering Programs. Only the University of Michigan ranked higher in the state at 17th.

“The Lawrence Tech name commands a significant level of respect in the engineering field and all but guarantees a substantial return,” valuecolleges.com reported. “While not as well known as many other STEM-focused private universities, [it] is a highly-regarded first-tier university recognized as one of the best in the Midwest for engineering.”

Business Insider, a business, celebrity, and technology news website, ranked LTU among the 610 “Smartest Colleges in America” in 2015 based on aver-

age standardized test scores.

LTU continues to be ranked in the top tier of Regional Universities-Midwest in the best-known college rankings by *U.S. News and World Report*. Other highlights from that survey, which was released in September:

- LTU’s civil engineering program was ranked fifth nationally among universities offering bachelor’s and master’s degrees.
- The College of Engineering was ranked 23rd among the best undergraduate engineering programs in the country.
- The online undergraduate and graduate degree programs were again ranked among the nation’s best.
- LTU was named one of the Best Colleges for Veterans in the Midwest.

In addition, the College of Management was ranked 31st among the country’s top 50 online master’s degree programs in information technology by *non-profitcollegesonline.com*. □EP



## Two LTU professors explain fabrication techniques in their book ‘Digital Vernacular’

Seeking to reconcile traditional architectural practice with the modern digital tools used by architects and other designers, Lawrence Technological University Associate Professors James Stevens and Ralph Nelson have published a book, “Digital Vernacular: Architectural Principles, Tools, and Processes.”

Many of the lessons presented in the book come from the makeLab in LTU’s College of Architecture and Design. Stevens

is the makeLab founder and director, and over the past five years he and his students and other LTU faculty members have created relatively inexpensive equipment for fabricating original pieces – including full-scale buildings, architectural-scale models, and furniture – in wood, masonry, plastic, and other materials.

“Digital Vernacular” addresses the why and how of digital fabrication in hundreds of step-by-step color images, illuminating a set of working principles and techniques that join theory with practice, which

is Lawrence Tech’s signature approach to education.

The 300-page book is lavishly illustrated with 359 color photos, including many taken by LTU Professor Steve Rost.

The goal of the book is

to bring together traditions and innovations in architecture and design – the vernacular in architecture – with new digital toolsets. In the process, the authors seek to reconnect computerized design with the act of making physical objects.

A companion website, [make-lab.org/the-digital-vernacular](http://make-lab.org/the-digital-vernacular), provides additional step-by-step processes and project outcomes. □EP



*James Stevens and Ralph Nelson of LTU’s College of Architecture and Design teamed up to write the book, “Digital Vernacular.”*

## Deines named interim dean as LeRoy accepts presidency

Professor Amy Deines has been named interim dean of LTU's College of Architecture and Design (CoAD), following the departure of Glen LeRoy to become president of Boston Architectural College. Previously Deines had served as associate dean and chair of LTU's Department of Art and Design.

She is also executive director of LTU's Detroit Center for Design and Technology, which opened this fall (*see story on page 6*), after providing the leadership for the planning, fund raising, and implementation of this important project.

Before coming to Lawrence Tech in 2011, Deines taught at the University of Detroit Mercy and several other universities. She has a bachelor's degree in design from Wayne State University and a master's degree in architecture from the Cranbrook Academy of Art, where she also studied industrial design. She holds leadership positions in the Detroit and Michigan chapters of the American Institute of Architects.

The University will conduct a nationwide search for a new dean, but LeRoy said a strong leadership team is in place in the interim. Associate Professor Scott Shall has moved from chair of the Department of Architecture to become interim associate dean, and Associate Professor James Stevens is now interim chair of the Department of Architecture.

During LeRoy's 10-year tenure, LTU's College of Architecture and Design added bachelor degree programs in transportation design and industrial design. CoAD partnered with LTU's College of Engineering to create a five-year master's program in architectural engineering. LTU's online master's degree in architecture was just the third in the country, and CoAD introduced the first online design studio.

At a farewell reception held for

LeRoy in August, LTU President Virinder Moudgil and Provost Maria Vaz both spoke in glowing terms about the leadership that LeRoy provided in transforming the College of Architecture and Design by adding many new programs and talented faculty members.

LeRoy was also responsible for bringing the late A. Alfred Taubman to campus to teach a course on real estate development. He helped rejuvenate the alumni group that has done so much to restore the University-owned Affleck House, elevating its status as a nationally recognized example of Frank Lloyd Wright's Usonian architecture.

In his remarks at the reception, James Ryan, BSArE'66, noted that he served on the committee that selected LeRoy after a national search. LeRoy's wide range of experience in the private sector and as an educator, as well as his involvement in fund raising

and professional and community causes, made him an obvious choice.

"I personally believe that Dean Glen LeRoy has metamorphosized the College of Architecture and

Design into what it is today," Ryan said. "Students who graduate from all architectural disciplines are better prepared than ever before to become future leaders."

□ EP



*Interim Dean Amy Deines and LTU alumnus Jim Ryan (right) attended the farewell party for Glen LeRoy, who stepped down as dean of LTU's College of Architecture and Design to become president of the Boston Architectural College.*

## Presidential candidate speaks on campus



*Lawrence Tech has been a campaign stop for a number of presidential candidates, including George W. Bush during his successful campaign in 2000 and Mitt Romney in 2008. On Aug. 31 Ohio Gov. John Kasich, a Republican candidate for president, answered questions about national security at a forum sponsored by Americans for Peace, Prosperity, and Security in LTU's University Technology and Learning Center gallery.*

## LTU and DPS launch comprehensive program to encourage students in STEAM

In August Detroit Public Schools (DPS) and Lawrence Technological University announced an innovative partnership to enhance education in science, technology, engineering, arts, and mathematics (STEAM) for students at the Sampson-Webber Leadership Academy on the city's west side.

This fall 50 middle school students became the first Blue Devil Scholars at Sampson-Webber, and 50 additional students will join every year. If these students stay in the program through 12th grade, they would earn college credits and be eligible to attend LTU with scholarship support. LTU is making a \$3.5 million scholarship commitment as part of this comprehensive effort to attract larger numbers of DPS students and prepare them for opportunities in STEAM fields.

More than a dozen LTU faculty members will be involved in the partnership, and the University together with DPS will provide additional resources and funding throughout the life of the project.

"This is an exciting new chapter in Lawrence Tech's ongoing involvement in Detroit," LTU President Virinder Moudgil said. "We want to encourage more students from Detroit to attend Lawrence Tech, and this program is designed to prepare them for

success both at the college level and in their professional careers in STEAM-related fields."

The Blue Devil Scholars program is designed to provide a systematic approach to enhance STEAM education for Sampson-Webber students starting in sixth grade and continuing through high school. Eventually the process of preparing students for STEAM education will begin in kindergarten.

"Innovative partnerships such as the one created between DPS

and LTU are key to the district creating an educational system that is academically competitive," said Detroit Public Schools Emergency Manager Darnell Earley. "As we move forward with the transformation of DPS, we will continue to seek out partnerships/programs that enhance our curriculum and provide our students with a clear pathway to success."

The partnership will also have a professional development component for the teachers selected to participate in this program, includ-

ing workshops on project-based learning and active-collaborative learning. LTU faculty will assist in creating modules with STEAM content to be embedded in existing middle school courses. Tutoring by Lawrence Tech students proficient in science and math will supplement the STEAM modules.

When the Blue Devil Scholars move to high school, they will choose one of five STEAM tracks – art, design, math/science, technology/management, or engineering. The students will earn college credits in embedded and dual-enrollment courses taken at LTU and will graduate with a certificate for 12–15 credit hours that will be transferable to Lawrence Tech.

In addition to a strong academic component for each year along the way, the program will include extracurricular activities to support and enhance the educational process. □EP



*With LTU President Virinder Moudgil are (on his left) Kenyuno Jones, principal of Detroit Collegiate Preparatory High School at Northwestern High School; Karla Craig, principal at Sampson-Webber Leadership Academy; teacher LaShon Clay; and instructional specialist Charlyne Bass. In front are students Akilah Henderson and Ce'Miya Young.*

*Assistant Provost for Enrollment Services Lisa Kujawa (left) and Director of Corporate and Foundation Relations Howard Davis (next to President Moudgil) of LTU's Office of University Advancement took responsibility for getting the Blue Devil Scholars program up and running. In the middle are LTU Associate Professor Constance Bodurow, who is overseeing a community enrichment project at Sampson-Webber Leadership Academy, and Cortnie Wilson, representing the project's funder, the Ford Motor Company Fund.*





## Student wins international yacht design competition

LTU transportation design student Jeffery Summers took first place in an international yacht design competition and has earned a three-month internship in the Netherlands, where he will be working with Sea Level Yacht Design and Engineering and Dutch shipyard Heesen Yachts on a new yacht concept based on his winning design.

Summers learned about the competition on Instagram and quickly put together plans for a 50-meter yacht with a new profile and sundeck. The jury panel selected six of the 26 entries from around the world to be presented on social media. The top three were chosen based on popularity on social media as well as final input from the judges.

Summers and the other two finalists from Italy and Lithuania were invited to the Monaco Yacht Show on the French Riviera in September. In addition to having almost all of his expenses paid, he got to board several super yachts in the show – a privilege ordinarily reserved for serious buyers.

Summers began drawing boats as a boy when his family had an Algonac cottage with a view of Lake St. Clair’s south channel used by large freighters. He began his college career as an engineering major at Western Michigan University and then transferred to LTU to take transportation design.

Even though LTU’s degree program focuses primarily on automotive design, Summers plans to apply what he has learned to yachting. “It has been my dream to design yachts as a living,” Summers said.

Keith Nagara, director of LTU’s transportation design and industrial design programs, notes that while LTU’s program is influenced by the automotive industry due to LTU’s location, the design principles and processes are very

similar to other transportation products, such as yachts, planes, RV, and motorcycles.

“One of the most unique qualities of these programs is that from freshman year through senior year, the studios have a corporate sponsor, which is equivalent to having a four-year apprenticeship,” Nagara said. “LTU encourages students to tailor the program to their specific interests regardless of sponsoring corporation.” □EP



*Transportation design senior Jeff Summers lines up a display of his proposed yacht design that took first place in an international competition.*

## LTU chosen for pilot project to create fast track for architecture licensure

The National Council of Architectural Registration Boards (NCARB) has selected Lawrence Technological University and a dozen other highly rated architecture programs to participate in its Integrated Path Initiative for licensure, a pilot project designed to give students the opportunity to complete the requirements for architecture licensure at the time of graduation.

LTU’s Department of Architecture in the College of Architecture and Design and the

other participating architecture programs have been asked to propose a pre-graduation integration of education and experience requirements so that students will be prepared to complete the requirements for the intern development program and take each of the six divisions of the new Architect Registration Examination® 5.0 prior to graduation. In Michigan and many other states, enabling legislation will also be needed to change existing state law.

“The Integrated Path Initiative to architectural licensure aligns perfectly with Lawrence Technological University’s long-standing tradition of teaching theory and practice,” said Associate Professor James Stevens, interim chair of LTU’s Department of Architecture. “It will allow the Department of Architecture to better coordinate and support our students’ academic and professional pursuits.”

Interim Dean Amy Deines said the Integrated Path Initiative will

help LTU focus more on the critical relationship between education and related experiences with professional licensure. She added that LTU’s emphasis on architecture students becoming involved in community projects should grow even stronger.

“The return on investment from this initiative will greatly benefit our region, particularly as it helps us address the complex issues that face American cities, as in the case of Detroit, which is so important to the College of Architecture and Design,” Deines said.

## LTU's Supermileage team wins newcomer award

LTU's Blue Devil Motorsports Supermileage team won the Best Newcomer Performance Award at the 36th SAE Supermileage competition held in Marshall, Michigan, in June.

LTU's vehicle, Alpha, successfully completed three runs and drove for almost two hours on the track with a fuel consumption rate of 358 miles per gallon. The team earned \$700 and a plaque for its performance.

The Supermileage competition provides engineering and technology students with a challenging design project that involves the development and construction of a single-person, fuel-efficient vehicle powered by a small four-cycle engine from Briggs & Stratton. One goal of the competition is to

increase public awareness of fuel economy.

This is the first time in 13 years that LTU has sent a team to the

Supermileage competition, and the newcomer competition is for teams that haven't participated in the past three years. In April the



team also participated in the Shell Eco-Marathon held in Detroit.

"Participating in the Shell Eco-Marathon helped us significantly," said LTU Assistant Professor Liping Liu, the team's faculty advisor. "It set a pre-deadline that made us much better prepared for the SAE Supermileage competition." □EP

*Members of LTU's successful Supermileage team are (standing left to right) Yilin Chen, Xiao Han, Shian Cao, faculty advisor Liping Liu, Lei Cao, Samruddh Kulkarni, Kishan Balan, Zachary Rogers, and Elton Tate. In the front are Xiaodong Chen, Shashank Rai, and Bhavik Chauhan.*

## President's Symposium looks at the future of automotive transportation

The annual President's Symposium held at Lawrence Technological University in September provided insights into the rapid development of new technologies in the transportation sector that will have a dramatic effect on how we get from one place to another in the coming years.

The panel discussion was moderated by Michigan Department

of Transportation Director Kirk Steudle, BSCE'87. The panelists were:

- Chuck Gulash, director of the Collaborative Safety Research Center of Toyota Motor Engineering and Manufacturing North America Inc.
- J. Gary Smyth, executive director of the North American Science Labs, Global Research and

Development of General Motors Company.

- Michael Ford, CEO of the Regional Transit Authority of Southeast Michigan.
- Jay Baron, president and CEO of the Center for Automotive Research.
- Douglas Patton, executive vice president for engineering and chief technical officer for DENSO International America, Inc.

The speakers discussed the great progress that is being made on improving the user experience in cars, building with lightweight materials, and developing automobiles that can drive themselves.

Technology is being developed to make it possible for a car and its driver to communicate with other cars, the highway, and even pedestrians.

Michigan remains the center of the American auto industry where most of the research and development is being conducted. It has been predicted that the auto industry will change more in the next five to 10 years than it has for the past 50 to 100 years. The panelists discussed the enormous changes that are taking place right now and the innovations that are coming.

LTU President Virinder Moudgil founded the annual symposium in 2012 to provide a multi-disciplinary forum for discussing major challenges facing the Metro Detroit region. "The big challenge of the next few decades will be to find ways to harness technology to deal with the various challenges facing our society. Transportation is one of the top priorities, especially here in Michigan," Moudgil said. □EP



*Answering questions at the President's Symposium were (from left) Chuck Gulash of Toyota Motor Engineering and Manufacturing North America Inc., Douglas Patton of DENSO International America Inc., Jay Baron of the Center for Automotive Research, J. Gary Smyth of General Motors, and Michael Ford of the Regional Transit Authority of Southeast Michigan. MDOT Director Kirk Steudle (at right) was the moderator.*

## Lawrence Tech team wins NOMA student design competition

The LTU student chapter of the National Organization of Minority Architecture Students (NOMAS-LTU) won the Barbara G. Laurie NOMA Student Design Competition during the national conference of the National Organization of Minority Architects (NOMA) held in New Orleans in October. The first-place prize was \$1,500.

NOMAS-LTU was established in January 2014 and now has 15 dues-paying members. It has been closely collaborating with the professional chapter of NOMA Detroit, which is moving its offices to the Woodward Willis Building in Midtown Detroit where LTU's Detroit Center for Design + Technology is located.

NOMAS-LTU promotes excellence, community engagement, and the professional development of its members, and is open not only to ethnic and racial minorities, but to anyone who

champions diversity within the design profession. The founding president, Andreea Vasile, is from Romania, and she was recently appointed to a two-year term as one of two student members of NOMA's national board.

Planning for the university design competition began almost a year ago when the brief was first released. The LTU team tackled redesigning part of the urban neighborhood Tremé in New Orleans by eliminating an elevated highway that disconnected an entire community.

Vasile said the team's primary focus was considering the needs of the community and implementing the solutions in the overall design of the site. "We also learned a lot about directing and working in a large team consisting of people with different approaches," she said.

In the past the competition has usually been won by teams from

### Follow alumni on social media

For all the latest information on upcoming alumni events, follow the LTU Alumni Association on Facebook and Twitter:



**facebook.com/LTUalumni**



**@LTUalumni or twitter.com/LTUalumni**

much larger universities. The LTU team benefited from the support of NOMA Detroit members who provided valuable feedback at design charrettes and review sessions.

The chapter's main advisor Tiffany Brown, BSAr'05, MAr'07, MBA'15, worked with the competition team. She is vice president of

NOMA Detroit, and also serves as the Midwest university liaison to the NOMA National Board.

The faculty advisor is College of Architecture and Design Interim Dean Amy Deines, who has supported the group from the beginning and obtained partial funding for nine members to attend the conference in New Orleans.

Students interested in joining NOMAS-LTU can contact Andreea Vasile at [nomasltu@gmail.com](mailto:nomasltu@gmail.com).

Go to Facebook to keep up with the LTU chapter: [www.facebook.com/nomasltu/timeline](http://www.facebook.com/nomasltu/timeline). □EP



*Accepting the top prize in the university student competition in New Orleans are (left to right) Breanna Hielkema, Sara Alsawaty, advisor Tiffany Brown, Andreea Vasile, Yacob Nigatu, Randy Butler, and Mateo Diaz. Not pictured: team member Rawan Ita.*

## Global Village Project grows in its third year



stronger relationships between international and American students.

“I truly believe that coming together to discuss and learn from our similarities and differences is what makes us a great people,” said Moudgil, who emigrated from India as a young man to pursue a career in medical research in the United States. “The participants are invited to explore the richness of our traditions and history, and to learn what unites us. Through this dialogue, we can promote global understanding.” □EP

*Participants in LTU's Global Village Project visited the Charles H. Wright Museum of African American History as part of a tour of important historical and cultural sites in Detroit.*

Lawrence Technological University's Global Village Project to promote better understanding of diverse cultures, countries, and faiths grew to 90 participants in its third year.

The program involves two days of enrichment activities, culminating with the presentation of LTU's Global Citizen Award during the University's annual Convocation on Aug. 22 to welcome new students. The 2015 recipient was Microsoft Vice President John Fikany of the company's Heartland Area District headquartered in Southfield.

Lawrence Tech's Global Village Project included discussions on the role of culture in sports and how to take a diplomatic approach to race, culture, and ethnicity. A seminar explored the educational values of different countries and cultures, with an emphasis on the specific values that inform education in the United States.

Participants toured a number of sites of historical and cultural significance during two trips to Detroit.

The Global Village Project was initiated by LTU President Virinder Moudgil in 2013 to encourage

## LTU student appears on the big screen outside Cobo Center

*As one of the five finalists in Cobo Center's 30/60 Video Scholarship competition, LTU media communication student Chloe Dunklin earned a \$500 scholarship and had her video entry displayed on the two giant video boards at the corner of Congress and Washington streets in downtown Detroit. She also appeared in the video about Detroit, as captured in this photo by Jody Gaber, director of LTU's media communication program.*



## Recent alumna quickly transfers design skills to the real world

Less than two years ago Lindsey Grant, BSID'14, was taking courses at LTU where she was frequently asked to come up with design concepts for cars 10 and 15 years in the future. Now she's doing the exact same thing as a color and material designer at the Lincoln Motor Company, which is the luxury automotive brand of Ford Motor Company.

After wrapping up work this summer on the new Lincoln Continental that goes into production in 2016, Grant has been assigned to another team and works on supporting future design concepts from a color and material perspective.

"We did a lot of that at LTU during our projects, and so it's surreal having the same opportunity to do that as a professional," Grant said. "It's more intense now because it eventually has to go into production and live in the real world. LTU did a fantastic job of preparing me for what I'm doing now."

Grant was assigned to the Lincoln Continental Concept as

the color and material designer when she first started at Lincoln after graduation. She described that experience at the MAIN Event automotive design symposium held at LTU in June.

At Lincoln, design tasks are assigned to small teams with representatives from each cross-functional discipline. These different areas of expertise include exterior design, interior design, color-and-material design, digital sculpting, and clay modeling.

The cross-functional design team worked on the look and feel of the car. "Bringing back a nameplate like the Continental is huge for Lincoln, and we all did our very best to honor the past while looking into the future," she said.

Grant's area of expertise came with the color scheme, material breakups, and the overall feeling that is evoked when you see the car. "Color, when you really think about it, is a very personal experience; it cannot be calculated. We took cues from the past and emerging trends moving forward

to come up with what we think makes this vehicle so special," Grant said.

The design team has to come up with a holistic identity for the car that brings together many elements. What impression does the exterior color create for the user? Are there chrome accents? Are the wheels machine-faced? Do the interior's finish and details match up with or complement the exterior?

Working from macro to micro scale, everything about the look of the Continental concept car was labored over. Nothing was left untouched. "We went through the entire vehicle with a fine-tooth comb," she said.

And, as always, the design team worked very closely with the engineering team "to make sure it was functional and beautiful."

LTU transportation design and industrial design students are often asked by automakers to come up with concepts for vehicles well into the future. The students present their concepts to professional designers working for OEMs, who then critique the students' designs. "The experience I got during school [that included] insights from design professionals

in the industry has been invaluable," Grant said.

"We were always challenged to walk a fine line between imagining the future and making educated presumptions on what is going to be feasible ... you want to push it, but you have to be realistic," she recalled. "My time at LTU taught me that real design thinking is not just a pretty sketch. It also has to be functional."

Grant now works with some of those professionals who reviewed her work as a student. "I'm on a team with one of my former professors, and it's a truly rewarding feeling to know that all the hard work I did paid off. Working hand in hand with someone who gave you the tools you need to succeed is a really humbling experience," she said.

A recurring challenge of Grant's job is finding ways to give Lincoln models a "refreshed" look and feel during the luxury vehicle's three-to-four-year cycle. "Lincoln is a very special brand, and we constantly keep that in mind when we're designing what's next. We're always striving for the best," she said. □EP

*Lindsey Grant poses with the Lincoln Continental concept car that she began working on a few months after graduation. It was on display at the MAIN Event automotive design symposium held at LTU in June.*



## Architect to the stars got his start at Lawrence Tech

Palm Springs, the California desert community that has been home to Hollywood legends Frank Sinatra, Marilyn Monroe, Bob Hope, Cary Grant, Elizabeth Taylor, Lucille Ball, and Desi Arnaz, is also known as a mecca for Mid-Century Modern architecture – much of it the work of Detroit native and former Lawrence Tech student Hugh Kaptur.

Kaptur's path to becoming an architect who catered to Hollywood stars began in 1949 when he enrolled at Lawrence Tech after graduating from high school. A couple of years later, with the Korean War heating up, he left school and enlisted in the Marine Corps to avoid being drafted mid-semester.

After three years with the Marines and seeing duty in Korea and Japan, Kaptur returned to Detroit. His first job was in GM's styling division, where his father was an executive. By then married and a father, Kaptur resumed his studies at Lawrence Tech, taking night classes in engineering.

"Working days and night school and having a family was quite a balancing act," he recalled.

In 1956, before he had time to

complete his degree, Kaptur and his family moved to Palm Springs, where his mother-in-law lived. He worked briefly for the prestigious Wexler & Harrison firm before being laid off during the 1957 recession. But the architecture business picked up the very next year when home builders began developing Palm Springs – little more than a village of some 8,000 people when Kaptur first arrived – on a large scale. Kaptur's career picked up, too.

Inspired primarily by Frank Lloyd Wright, the father of the Prairie style of architecture, Kaptur ventured into business on his own. One of his earlier projects was designing a Palm Springs fire station. At the time, Kaptur wasn't a licensed architect, which apparently didn't sit well with another local architect who reported him to the Architectural Board of California. This led to a personal visit from a board examiner with some sound advice: take the licensing exam.

Kaptur ultimately passed the grueling exam, and his career went into high gear with an AIA designation after his name. The story actually has a second happy

ending: Kaptur and the complainant, Bill Cody, ultimately became best friends.

In a career spanning well over a half century, Kaptur has designed more than 200 residences and 40 commercial projects in Palm Springs. Last year, during the city's Modernism Week, he was honored with a Golden Palm Star bearing his name on the Palm Springs Walk of Stars. Kaptur was also featured in a documentary film, "Quiet Elegance," which was released during the week. The film is available through streaming or DVD at [www.thisthatfilms.net](http://www.thisthatfilms.net).

Kaptur's work reflects what is known as the "desert style" of architecture, featuring thick walls, deeply inset windows, and wide overhangs – "flowing and organic" in his words.

"Hugh Kaptur's architecture reveals intriguing new dimensions to Palm Springs' masterful collection of Mid-Century Modern Designs," wrote architecture critic Alan Hess. An industry publication noted that his designs give him "solid membership in the Palm Springs School of Architecture along with such contemporaries as Bill Cody, Don Wexler, William

Krisel, and E. Stewart Williams."

Mid-Century Modern generally describes developments in modern design, architecture, and urban development from roughly 1933 to 1965. Mid-Century Modern homes, like those in Palm Springs, are characterized by ample windows and floor plans that open up interior spaces and bring in the outdoors.

Kaptur has designed homes for several notable people, including actor Steve McQueen, during his long and prolific career. His favorite client was William Holden, the actor who starred in such critically acclaimed films as "Sunset Boulevard," "The Bridge on the River Kwai," and "Stalag 17," for which he won the 1953 Academy Award for Best Actor.

"Bill Holden was without a doubt a prince of a guy," Kaptur recalled. "At the time when I knew him [in the 1970s], he was dating Stefanie Powers. He took her from a nobody and introduced her to all the right people in Hollywood, and she was his companion for several years. The good thing she did for him was she got him off drinking, so when I knew Bill he was not drinking. He was not affected by his stardom as were other people that I knew."

Two other clients, husband-and-wife superstars Tony Curtis and Janet Leigh, apparently were not as unaffected. "Typical Hollywood brats," Kaptur tersely intoned in a 2014 interview with Palm Springs Life magazine.

In 2001, by then divorced and the father of three grown sons, Kaptur married the widowed Helen Dzo Dzo. Stylish and vivacious, she had been a professional model in the 1960s and 1970s, traveling around the world on high-profile assignments for top designers and photographers. In



This is Their Films

*Hugh Kaptur takes in the view from the pool area of the Selzer house that he designed in Palm Springs, California.*

1970, she was immortalized in a photograph entitled “Poolside Gossip” by prominent celebrity photographer Slim Aarons. The iconic photo has come to define the wealthy but casual Palm Springs lifestyle of the time.

At 84, Kaptur describes himself as “semi-retired.” After his wife died earlier this year, he moved from their 6,000-square-foot home overlooking the San Jacinto Mountains to a 2,100-square-foot condo, which he is busy redoing to suit his personal tastes and needs. Now in his 60th year in Palm Springs, Kaptur is still enjoying his business and his desert lifestyle. □CWM



*The living room of the Ostroich house in Palm Springs exemplifies the simple elegance that is characteristic of the architectural designs of Hugh Kaptur.*

This is That Films

## Civil engineer enjoys life in the fast lane of highway construction

The summer of 2014 was a busy one for Jeffrey A. Horne, BSCvE’05, MCEM’08, a transportation engineer at the Oakland Transportation Service Center in the Metro Detroit region of the Michigan Department of Transportation (MDOT).



Five weeks after his wife gave birth to the couple’s second daughter, a seven-mile stretch of I-96 in Livonia and Redford was shut down in preparation for a massive, \$148 million makeover project that would take 167 days to complete and prompt nearly 150,000 motorists to seek the proverbial alternate route.

“It was an amazing feat to perform that much work in that short time period,” said Horne, one of the leaders of a team of MDOT engineers and technicians who reconstructed nearly 60 lane miles, worked on 37 bridges, replaced the drainage structures/lines, and performed other work — all completed ahead of schedule.

In recognition of his role, Horne received the Director’s Award — the highest honor the department gives for outstanding leadership and public service.

Horne was honored in the professional category for showcasing “the true spirit of teamwork by providing excellent customer service to both internal and external customers, and standing as a leader among his peers,” MDOT said in making the announcement in August.

“I am humbled and appreciative to receive the top award from MDOT. It’s a privilege to be nominated for the award, but to be the recipient is an honor,” said Horne, who has played a leadership role in several MDOT projects, but none as monumental as the I-96 reconstruction.

Horne originally enrolled at Lawrence Tech as a mechanical engineering major but switched to civil engineering after his first year as an undergraduate. He worked at MDOT for two years as a co-op in the geotechnical/construction section while finishing up his

bachelor’s degree.

“The MDOT office was two miles from campus so it was very convenient to work and go to school. It was an ideal learning situation, since I lived Lawrence Tech’s motto of ‘theory and practice,’” he said.

Horne said several classes helped prepare him for his MDOT career. “One class in particular during my undergraduate studies was Transportation Engineering, taught by Dr. Elin Jensen. She was a wonderful teacher who taught us everything from basic highway

engineering problems to complex issues. Such topics include horizontal and vertical curves, spiral curves, and so forth.”

With a passion for being around construction projects, Horne decided to pursue his graduate degree in construction engineering. “I like the scheduling, finance, dealing with stakeholders and contractors, and project planning aspects of construction,” he said.

Horne lives in Canton with his wife, Stacey, and their two daughters. □CWM



*During the 167-day reconstruction project, MDOT constructed this 48-inch prestressed concrete water main under I-96, just west of Middlebelt Road in Livonia, for anticipated future use.*

Michigan Department of Transportation

## Siblani sees bright future for Michigan entrepreneurs

In May, Al Siblani, BSEE'90, founder and CEO of EnvisionTEC, received the 2015 EY Entrepreneur of the Year regional award for Michigan and Northwest Ohio in technology.

"It was an honor to be in the company of so many prestigious entrepreneurs," he said. "It was a humbling experience and felt good to get recognized by my peers."

Siblani founded EnvisionTEC in 2002. With dual corporate headquarters in Dearborn and Gladbeck, Germany, the company produces 3D printers used for a wide range of dental, medical, mold making, animation prototyping, biofabrication, and other applications. The company also operates sales, services, training, and manufacturing centers in the U.S. and the United Kingdom.

EnvisionTEC offers a diverse product line of three printer technologies with many different 3D printers targeting various applications, including the Perfactory Micro DDP printer for dental applications, the Perfactory Desktop Aureus for customized jewelry, and the 3D-Bioplotter for bioprinting tissue and other cell therapy applications. Most recently, EnvisionTEC added its 3SP (Scan, Spin, and Selectively Photocure) technology to its product lineup.

EnvisionTEC holds over 100 patents and pending patent applications worldwide. The company continues to issue an average of one patent every three months as it develops and improves its core technologies in the rapid prototyping industry, according to Siblani.

Siblani launched his career in rapid prototyping industry when he placed the first LOM (laminated object manufacturing) 2030 machines from Helisys Corp. at Ford, GM, and Chrysler prior to founding his first company, Sibco Inc., in 1993.

"Sibco was the only third-party

provider of services and materials for the rapid prototyping industry, and it was through this experience that I began to see the need for new and better rapid prototyping systems," he explained in an interview with the online publication 3D Printing Industry.

Siblani credits his education at Lawrence Tech, with its focus on theory and practice, for helping him kick-start his successful career as an award-winning entrepreneur.

"The practice part of the education at Lawrence Tech was an invaluable hands-on experience that gave me the confidence on my first job," he said. "My professors' actual background in industry afforded them the ability to deliver real-world education as opposed to pure academic teachings. This influenced me to look outside not only the box, but outside the typical automotive industry I grew up in . . . [getting past the thinking] that we eventually all end up working for one of the Big Three."

Siblani is optimistic that Michigan has the potential to once again change the world. "Let's look beyond the automotive space to innovate and captivate new markets. Let's deliver technology that levels the global economic field against cheap labor and deliver manufacturing solutions that improve the quality of people's lives," he said. "Let us sustain, through the labor unions, the middle class that continues to suffer because we continue to ship manufacturing jobs overseas."

As for aspiring entrepreneurs, Siblani offers: "Never stop chasing after your dream. Never give up while you climb up the ladder out of that hardship that you chose to endure. Ignore the doubters and keep trying. If it was easy, everyone would be doing it." □CWM



*Al Siblani has developed a worldwide market for 3D printers manufactured by his company, EnvisionTech, headquartered in Dearborn and Germany.*

## Upcoming Alumni Association Events

### Rare book exhibit in the UTLC gallery, Tuesday, Jan. 12, 6 p.m.

Alumni are invited to a reception and private showing of a collection of rare books on loan from the Remnant Trust, a library at Texas Tech in Lubbock. Visitors can hold rare and valuable books that would normally only be viewed behind glass in a museum, including an 800-year-old Bible and a first printing of the Emancipation Proclamation. Associate Professor Philip Vogt led the effort to secure the exhibit. LTU faculty and students will be docents.

### Alumni gathering at the Traffic Jam in Detroit, Thursday Jan. 21, 6 p.m.

Join fellow alumni for good food, good beer, and great conversation at the Traffic Jam and Snug in Midtown Detroit before heading down to Cobo for the Auto Show. This event is free, but seating is limited.

### Red Wings hockey game, Friday, Feb. 12.

See the Detroit Red Wings take on the Colorado Avalanche. Tickets are \$40 per person and include a food voucher. A portion of sales will benefit scholarships at LTU.

*For information about these and other LTU Alumni Association activities, visit [lawrencetech.net/events](http://lawrencetech.net/events).*



## Walt Disney Imagineering took LTU architecture alumnus on a global odyssey

After graduating from Lawrence Tech, Joe Kilanowski, BSAr'72, embarked on an architectural journey that took him not only around the country but also around the world – from Detroit to San Francisco to Orlando and from Paris to Tokyo to Hong Kong to Shanghai.

Much of this global odyssey took place during his 27-year career with Walt Disney Imagineering, the design and development arm of the Walt Disney Company, which is responsible for the creation and construction of Disney theme parks, resorts, and cruise ships worldwide.

After retiring in May, Kilanowski is now busy consulting, teaching, mentoring, lecturing, and pursuing his passion for design through his photography and painting. “This I call my sequel,” he said, “because ‘retirement’ sounds so terminal.”

(You can see samples of his

work at [www.joekilanowski.com](http://www.joekilanowski.com).)

“Teaching/mentoring and lecturing are a way for me to give back for all that I have received from my education at Lawrence Tech and the many mentors along the way,” he said. “In addition – and for selfish reasons – working with students has always energized me and kept me flexible and open to new ideas.”

Kilanowski attributes his career success to a combination of knowledge, talent, self-confidence, luck, and opportunity.

“Lawrence Tech provided me with a knowledge base that was a balance of ‘design’ and ‘technology,’ he said. “This balance made me a better designer, in that it gave me the skills to not only think creatively and problem-solve, but also defend, with confidence, my designs as buildable. For me, knowing how to construct/build is equally as important as being able to design. For me, the details are

as important as the ‘Big Idea.’”

Kilanowski wanted to be an architect for as long as he can remember, but it wasn’t until he experienced LTU professors like Earl Pellerin, Harvey Ferrero, George Zonars and Harry VanDine that he fully understood the definition of architecture. “These teachers inspired and motivated me in ways that still manifest in my daily life today and in my approach to all aspects of design,” he said.

As a student, Kilanowski worked for Straub VanDine Architects in Troy as an architectural intern. After graduation, he worked at two award-winning Detroit architectural practices – Rossetti/Associates and William Kessler & Associates – before moving to Kaplan McLaughlin Diaz Architects in San Francisco and then to ELS Architects in Berkeley, California.

In 1986, while working for Bechtel Corp., Kilanowski was assigned to help in the design of

a new theme park – Disney MGM Studios – in Florida for the Walt Disney Company. “Initially, I was not pleased with the assignment, in that I had always thought of myself as a contemporary and ‘serious’ architect,” he recalled. “Working on a theme park was not then part of my career path.”

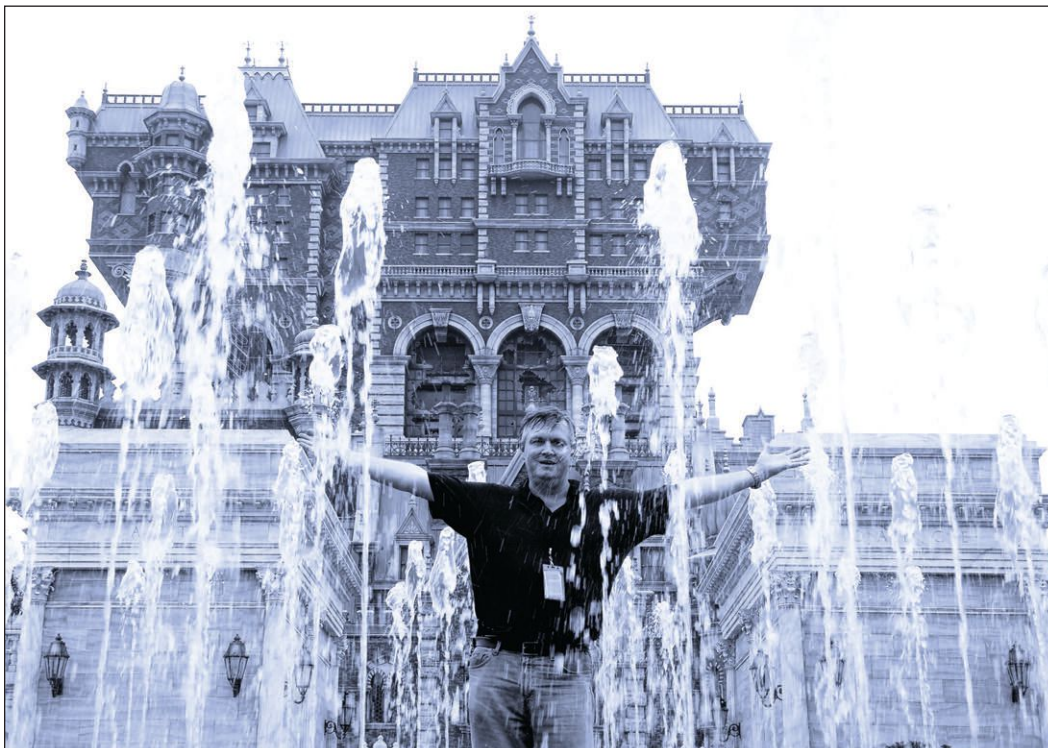
Within hours of arriving at Walt Disney Imagineering, however, Kilanowski found himself working with world-class talent from every imaginable area of design – writers, film makers, illustrators, vehicle engineers, lighting designers, dimensional designers, landscape architects, graphic designers, interior designers, show producers, painters, sculptors, and more.

“This sudden immersion into narrative design that plays to all senses was overwhelming and within two years I was an Imagineer,” he said. “As an executive architect, principal concept architect, and creative director, I have been responsible for the overall architectural and environmental design of new parks and resorts in Florida, Paris, Tokyo, Hong Kong, and Shanghai.”

For Kilanowski, the most memorable experience of his career at Walt Disney Imagineering was Tokyo DisneySea, a 176-acre theme park at the Tokyo Disney Resort located just outside Tokyo. “Working and living in and commuting to Japan for more than 13 years changed and improved me as a designer/architect and as a person in general,” he said. “Japan is a culture where design and quality are valued, and where each individual takes responsibility for his/her portion of the effort.”

Kilanowski and his wife, Elaine, have been married for 33 years and live in Pasadena, California.

□ CWM



*Joe Kilanowski stands among the fountains in front of the Tower of Terror at Tokyo DisneySea, which was his most memorable project at Walt Disney Imagineering.*

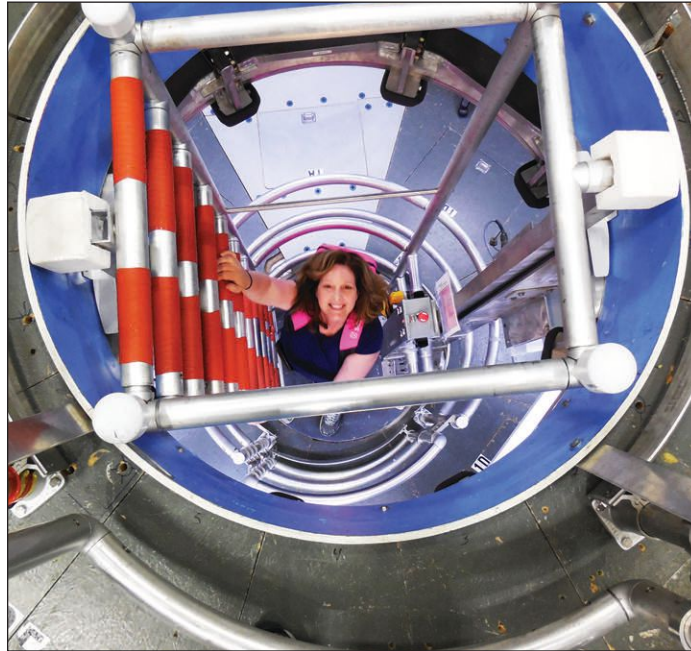
## Hodges goes on a virtual voyage for NASA

For Debra Hodges, AMET'06, BSET'06, MBA'10, GCertPM'10, the adventure of a lifetime began when she spotted an online NASA posting seeking volunteers for a simulated space mission for the Human Exploration Research Analog (HERA) study at the Johnson Space Center in Houston.

Hodges, an IT Project Manager for Blue Cross and Blue Shield of Michigan, called the Johnson Space Center to let them know she was interested. Less than three weeks later, after conference calls, an in-person interview, and psychiatric evaluation, she was one of six people selected from hundreds of applicants from around the world to participate in a mission in June.

"It was a dream come true to work with NASA in a study contributing to human space flight," she said. "Imagine the happiest moment in your life – then imagine your childhood dream coming true. I was speechless for days!"

Prior to the mission, the crew members communicated online



*Debra Hodges climbs the ladder from the first to the second level of the simulated space module at the Johnson Space Center in Houston.*

and through email. Once they met face to face in Houston, it didn't take long to establish a sense of camaraderie. "It was as though I already knew them, like old

friends getting together. It was utterly amazing to meet people with similar interests who are passionate about space," she said.

HERA is a three-year project

with four seven-day missions in 2014, four 14-day missions in 2015, and four 30-day missions in 2016. NASA will use data from these simulated missions to learn how astronauts of the future will fare on a manned mission to Mars.

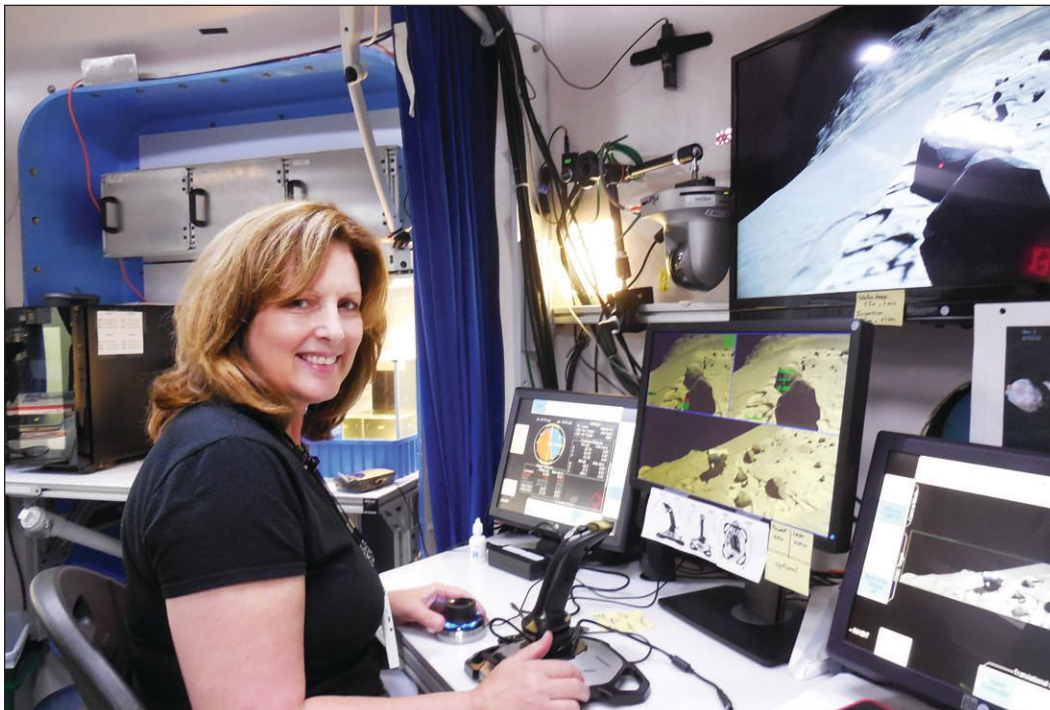
After 10 days of training and preparation, Hodges and the other crew members – two men and a woman – began their mission on June 11 with a simulated launch from the Multi-Mission Space Exploration Vehicle Station at the Johnson Space Center. Their destination: Geographos, an asteroid more than 79 million miles from Earth whose orbit crosses that of Mars. In real time, the round trip would take nearly two years.

During the 14-day mission, NASA officials observed the four crew members 24/7 to measure the psychological and physiological effects of isolation and confinement. For their part, the crew conducted scientific research as they would on an actual mission on the International Space Station.

Hodges, a Rochester Hills resident, is currently volunteering for a similar ground-based project called HI-SEAS, which is simulating a one-year Mars mission at a site in Hawaii. She is among 20 people serving as mission support from remote sites around the world.

In addition to her degrees from Lawrence Tech, Hodges has a Master of Aeronautical Science (Space Operations Management) from Embry-Riddle Aeronautical University in Florida. □CWM

*Read Debra Hodges' photo narrative, "My 30 Days with NASA" at [debrahodges.exposure.co/30-days-with-nasa](http://debrahodges.exposure.co/30-days-with-nasa).*



*Debra Hodges on the flight deck of the simulated space module at the Johnson Space Center in Houston, where she spent 14 days in June.*

## Transportation design grad transitions to user experience

Graduates of LTU's transportation design degree program have a 100 percent success rate in landing jobs in the auto and products industries, but Emilio Feliciano, BSTD'15, is taking his design education in a new direction.

In February, three months before graduation, Feliciano joined the Product Design Office on the Fiat Chrysler Automobiles (FCA) campus in Auburn Hills. Instead of working on interior or exterior design for one of Chrysler's nameplates, he joined the small team of 20 or so designers in the user experience group.

This is a new dimension of automotive design that cuts across all nameplates and platforms. The team works on how

the driver interacts with the car, and that experience is expected to change dramatically in the next few years due to mobile technologies.

"The pace of change will be rapid because technology is impacting so many aspects of driving," Feliciano said. "Everything is connected, and it's bleeding into the auto industry. No

one can predict where it is going."

In June, Feliciano was one of three recent LTU graduates who related their personal experiences in the auto industry at the MAIN Event automotive design symposium hosted by LTU. This fall he began teaching the second part of an LTU course on interior design and user experience.

He first gained exposure to the user experience in automotive design late in his junior year at LTU, and that introduction has led him down a new career path.

The biggest change is the intro-

duction of autonomous driving, a technology that is being developed by both the auto industry and Google. But there are many other ways that technology can improve the driving experience, and FCA's competitors like Tesla Motors and Ford are actively promoting the new technologies they are adding. Google and Apple are also competitors in this field.

FCA's user experience group is working on ways to harness technology to improve the functionality of a car. Is it possible to provide more information to the driver about both the car and the road it is traveling on? Are there new ways to teach the driver how to use all the features available in the car?

Feliciano and his FCA colleagues are also studying the experience of potential buyers when they first encounter a vehicle. Can the dealership be designed to better provide what the customer wants? What is the best way to present information to the customer?

"We're looking at how other industries are handling how they market products, like gaming," Feliciano said. "Usually this involves concepts that are not very far-fetched but are pretty new in the auto industry." □EP

*Recent LTU transportation design graduates Emilio Feliciano (center) and Colin Bonathan returned to campus in June to share their experiences in the auto industry at the MAIN Event, which was chaired by their former professor, Keith Nagara (right), director of LTU's transportation design and industrial design degree programs.*



## Ice cream socializing

*The Affinity Committee of the LTU Alumni Association Board of Directors hosted a Coldstone Creamery ice cream social for students during the second week of classes in September. The event was hosted by several alumni board members, including Ben Pupillo, BSME'82, MAE'99, who got a chance to chat with LTU student Lillian Zulinski.*



## Lawrence Tech alumni, professor win AIA Detroit awards

Two alumni and an LTU professor won top awards at AIA Detroit's 2015 Celebration of Architecture in September.

Raymond Cekauskas, BSAr'78, AIA, won the Gold Award; Carolyn Dwyer, BSAr'87, LEED AP ID+C, Hon. AIA, won the Honorary Affiliate Award; and LTU Professor Joongsuk Kim, AIA, AICP, won the Charles Blessing Award.

A principal at Landry | Cekauskas Architecture in Birmingham, Cekauskas has been an architect, designer, and craftsman for three decades. AIA Detroit noted: "He shares his enthusiasm for architecture with others through mentoring and teaching. He has a passion for designing and fabricating everything from furniture to lighting. He is a proponent of collective creativity as the crucible for change that will make the world a better place."

Cekauskas has engaged in multiple project types ranging from science, research, and healthcare facilities, to workplace and community buildings. As a thought leader and advocate for the importance of good design in shaping

the future, he has authored numerous publications on sustainability and presented at many national and regional programs.

Dwyer is the Detroit sales representative of Patcraft, a national supplier of flooring materials. She is founder and president of the Interior Designers Coalition for Change (IDCFC), a non-profit 501(3)c organization that provides commercial interior design services for communities where there is a need and resources are limited. She has participated on committees for AIA Detroit, the American Society of Interior Designers, and the International Interior Design Association.

The Charles Blessing Award is named in honor of the longtime Detroit city planner who was one of the most prominent leaders of his profession. This award is presented annually to someone who shares Blessing's vision of what a great city can be.

Kim is director of both LTU's Master of Urban Design degree program and its Detroit Studio, a community-based design and educational program recently

relocated within LTU's Detroit Center for Design + Technology on Woodward Avenue in Midtown Detroit. Detroit Studio students provide planning services to community groups through community-based architectural, urban design, and community development projects.

Kim revived the dormant AIA Detroit Urban Priorities Committee and chaired it from 2010 to 2014. Currently he serves on the AIA

national committee on regional and urban design. He served as a co-chair of the 2015 Structures for Inclusion, an international conference for socially responsible design, which was held this year in Detroit and at Lawrence Tech.

A graduate of MIT and the University of Michigan, Kim focuses on public interest design and has received numerous honors and grants, including the AIA Michigan President's Award. □EP

## AIA leader wins distinguished alumni award

This year's recipient of LTU's Distinguished Architecture Alumni Award is Damon Leverett, BSAr'83, MFA, AIA, LEED AP, the managing director of Diversity and Emerging Professionals Engagement for the national office of the American Institute of Architects (AIA) in Washington, D.C.

The award was presented during Homecoming Week by the Architecture and Design Cabinet of the LTU Alumni Association.

Leverett is responsible for strategic development, implementation, and monitoring initiatives designed to support AIA's diversity and inclusiveness, emerging professionals programing, and academic engagement. The emerging professionals team focuses on the concerns of students, interns, and recently licensed architects, and works with the National Associates Committee, Young Architects Forum, and the American Institute of Architecture Students.

The AIA's diversity and inclusion division focuses on multiculturalism, K-12 education, and women in architecture. The academic engagement team seeks to create a venue for collaboration between the academy and practitioners.

Leverett was as adjunct instructor at LTU's College of



**Damon Leverett**

Architecture and Design from 1990 to 2001. He is a former chairman of LTU's Advisory Council on Architecture.

He received a master's degree in computer arts and new media from the Academy of Art University in San Francisco. He has been involved in teaching at five other universities, and has written and presented extensively on architecture, urbanism, and computer visualization.

Leverett previously worked with Albert Kahn Associates in Detroit, SmithGroupJJR in Phoenix, and EYP in Washington, D.C. He is a licensed architect in Arizona and Michigan and has been an AIA member since 1986.

□EP



**AIA 2015 Gold Medal winner Raymond Cekauskas (second from left) is joined by AIA Detroit Vice President Bob Hoida, 2014 winner Mark Nickita, BSAr'87, BA'89, and AIA Detroit President Chuck Lewis.**

## LTU disc golf course leads alum to international competition

Lawrence Technological University doesn't have a disc golf team, but if it did, Chadd Scruggs, BSME'14, would have been a charter member.

Scruggs, who was an inaugural member of LTU men's varsity soccer team, learned to play disc golf between his summer classes in 2010, shortly after the LTU course was built under the direction of LTU Associate Professor Jason Barrett, chair of the Department of Humanities, Social Sciences, and Communication.

"I like being outside, and it's cool to watch the disc fly through the trees and do what you want it to do," Scruggs said.

He has continued to work on his game, and in 2014 he took first place in a field of more than 100 players in the amateur division III of the Michigan championships sponsored by the Professional Disc Golf Association (PDGA). The players in that division had similar ratings in PDGA-sanctioned tournaments.

That success led him to enter the international champion-

ships held in Kalamazoo, which attracted the best amateur players from 17 countries. He entered that competition ranked 250th, and moved up to 150th during the tournament.

His play attracted the attention of Prodiscus, a disc golf company in Finland, in part because he was using one of their disc bags. He was invited to join their sponsored team and now uses Prodiscus discs and apparel when he is competing.

He will travel to the company's headquarters in Finland next year to compete in a tournament, but he has no plans to quit his day job as a process engineer at Mac Valves in Wixom.

Michigan is a hotbed of disc golf players and ranks in the top five states for activity in the sport. Since 2012, the number of public disc golf courses in Michigan has grown from 135 to more than 300, and many private courses have been added as well. During the same time period, the number of PDGA disc golf members has grown almost 40 percent to

78,500 nationwide.

Scruggs returned to campus this year to work on the redesign of LTU's disc golf course, along with current student Bart Kowalewski and Phil Lucas, BSChB'12, LTU's student engage-

ment coordinator. Many of the original holes had been knocked out by construction, and the replacement tee boxes and baskets were in place in time for the annual Homecoming disc golf tournament in September. □EP

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ENGINEERS, ARCHITECTS, SCIENTISTS, AND THINKERS.

**Lawrence Technological University** isn't for just anyone. We want the future designers, engineers, scientists, and entrepreneurs who will create the innovations of tomorrow.

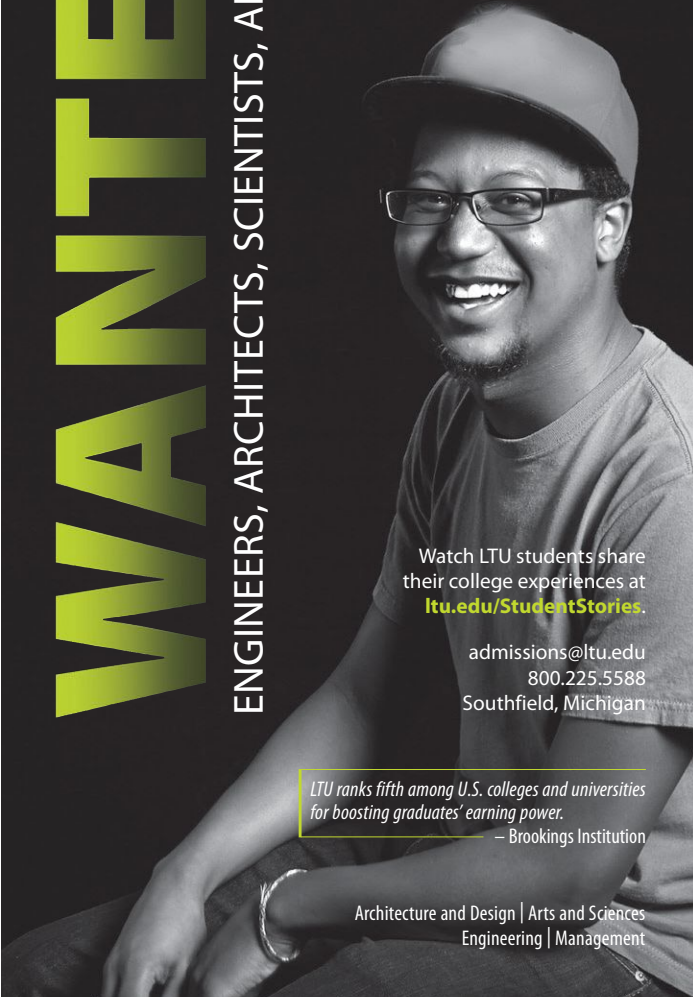
If you believe that everything is possible and that *possible* is everything, we want you at LTU.

Watch LTU students share their college experiences at [ltu.edu/StudentStories](http://ltu.edu/StudentStories).


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*Chadd Scruggs practices putting at one of the disc golf baskets on the Lawrence Tech course where he first took up the sport.*

## LTU Alumni Association president sets new agenda

Greetings, fellow alumni! I am the new president of the LTU Alumni Association (LTUAA). I've spent my entire life in the Greater Detroit area and take pride in the great things that are happening in and around the city. So it is no surprise that I decided to return to LTU to give back to the University that offered me so much and that is impacting so many lives.



**Donna Bell**

I was elected to the Association's Board of Directors in 2011. During my four years as a director, I have had the pleasure of working with great leaders who have established a high level of excellence for this organization. Now I accept the challenge of taking the organization to the next level. During my two-year term as president, I will continue to communicate and advance the LTUAA mission "to sustain a lifelong bond with alumni by promoting the University's commitment to innovate, transform, and lead through technical achievement, entrepreneurship, and professional excellence."

During this year's LTUAA retreat, the Board of Directors laid out plans to support the primary goals and strategies of the organization, which include:

- Promoting pride in LTU.
- Creating a dynamic and relevant organization.
- Creating a culture of service and philanthropy.
- Ensuring effective outreach and communication.
- Globalizing our organization by building relationships and connecting with alumni across the world.

One of my personal projects is to create a plan that will develop the LTU Alumni Association into a dynamic and relevant organization. We have more than 30,000 alumni, but our donation rate to the University each year is only 3–4 percent. I'd like see this number increase to 10 percent or greater before my term is complete.

Another personal project is to find out what our alumni expect from

their Alumni Association. I'll be working to understand what alumni value, what will get them back on campus to see the great things that are taking place, and how to get more involvement.

As you know, when you graduated from LTU you automatically became a member of the Alumni Association. As a fellow alumna, I invite you to join in and be a part of the revitalization of our Association. Please become involved with your local chapter and capitalize on the numerous opportunities to network, socialize, and, more importantly, support your alma mater.

I also encourage you to visit the LTU Alumni Association website at [www.lawrencetech.net](http://www.lawrencetech.net) to find out about upcoming events.

Thank you for your current support and future commitment to the LTU Alumni Association. I look forward to serving and seeing you at future alumni events.

Go Blue Devils!!

Donna L. Bell, BSEE '89  
President, LTU Alumni Association

### New LTU Alumni Association board members

#### General board

Elias Akouri, BSME'05 (2 years)  
Ted Bott, BSBA'87 (2 years)  
Ronald Muccioli, BSIM'69 (3 years)  
Ben Pupillo, PE, BSME'82, MAE'99 (1 year)  
Roger Shtogrin, BSIM'61 (3 years)

#### Architecture cabinet

Marceline James, BSIA'15  
Joshua Pearson, BSAr'01, MAR'07  
Samantha Szeszulski, BSAr'13

## Dream Cruise preview



*DASI Solutions hosted its annual car show for LTU alumni and other members of the community at its offices in Pontiac on the Thursday before Dream Cruise weekend in August. The celebration was hosted by co-owners and brothers David Darbyshire, BSME'87, and Richard Darbyshire, BSME'94. More than a hundred car enthusiasts enjoyed a cookout, music, tours of DASI's 3D printing studio, and of course vintage cars.*

# ALUMNI NOTES

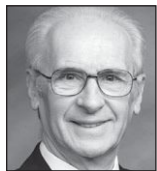
*Alumni Notes includes news gathered from alumni, their families and friends, corporate news releases, and newspapers. Submissions received after the deadline for this issue will appear in the summer 2016 issue. Use the form in this section to share news about you!*

## 1933-1985

**Richard T. Shuman**, BSME'49, celebrated 60 years in business at his Shuman Chrysler Dodge Jeep Ram new car dealership in Walled Lake.

**Stanley Tkacz**, ABCT'65, ALA, IIDA architect, celebrated 40 years in business at Studio Design-ST, a full-service architectural studio in Westland.

**Daniel H. Lafferty**, BSAr'74, was named corporate operations leader at Harley Ellis Devereaux, an architecture and engineering firm in Detroit.



**Thomas L. Bradburn**, BSIM'77, received the Sandra S. Iron Distinguished Service Award at the 85th Michigan

Safety Conference in Lansing. Prior to his retirement, he held many positions at General Motors including general supervisor of the Safety Department and senior safety staff assistant.

**James R. Godbout**, BSBA'78, is Latin America sales manager for Littelfuse Inc. He also serves as president of the Westland City Council.

**Michael L. Medici**, BSAr'79, BA'80, AIA, was named a managing partner at SmithGroupJJR, an architecture, engineering and planning firm in Detroit.

**W. Bernard White**, BSCE'80, is founder and president of White Construction in Detroit, which celebrated its 25th anniversary last year. He is also a 2005 Alumni Achievement Award winner.

**Toney S. Flack**, BSME'81, is the new chief information officer at Wichita State University. He was formerly the information technology director at Middle Tennessee State University.

**Thomas O'Connor**, BSArE'64, FAIA, FASTM, has donated nearly 200 architecture, art and photography books to the LTU Library. He also provided 1,500 slides of architecture from North America and Japan to be digitized for the Digital Image Collection in LTU's College of Architecture and Design.

After graduation O'Connor worked for Havis Glovinsky and Lindhout Associates. He worked at Smith, Hynchman and Grylls (now the SmithGroup) from 1973 to 2011, retiring as vice president and director of the Building Technology Studio.

O'Connor is part of the LTU Distinguished Architectural Alumni working on the restoration of LTU's Affleck House designed by Frank Lloyd Wright.



## ESD's outstanding young engineer

In June the Engineering Society of Detroit (ESD) presented the Outstanding Young Engineer of the Year award to **Andrew J. Hermiz**, PE, BSCvE'10, MSCvE'12, a structural engineer with Harley Ellis Devereaux, a Southfield planning, design and consulting firm.

Hermiz has played a key role in projects such as Wayne State University's \$93 million biomedical research building and the recently opened DMC Heart Hospital. He has also been a professional adviser to the Oakland Schools, Michigan State University, and LTU. He is an active member of the Structural Engineers Association of Michigan and chairs its Young Members Group.



*ESD President Ki Hammer presented the Outstanding Young Engineer of the Year award to LTU alumnus Andrew Hermiz of Harley Ellis Devereaux.*

**Larry T. Jordan**, BSAr'81, is the founder and senior pastor of Family Victory Fellowship Church in Southfield. He is also the founder of Children's Technological Academy, a K-6 school committed to preparing students for lifelong success.

**Michael A. Clark**, BSEE'83, was appointed vice president of Microwave Components & Integrated Assemblies at Crane Aerospace & Electronics in Chandler, Arizona.

**Amy A. Wendell**, BSME'83, was elected to the board of directors of Ekso Bionics Holdings Inc. in Richmond, California.

**Daryl M. Adams**, BSIM'86, was named COO of Spartan Motors Inc. in Charlotte. He was previously CEO of Midway Products Group.

**James A. Hamilton**, BSBA'86, senior vice president of worldwide sales and field operations at Cyan Inc. in Petaluma, California, was appointed to the board of directors of Datablink Inc. in Tysons Corner, Virginia.

**Joseph M. Portelli**, BSTe'88, is a priest at Sacred Heart Catholic Church in Gladwin and St. Athanasius Catholic Church in Harrison. He joined the priesthood after a 22-year career in the industrial robotics and machine vision industry.

**John J. Sammut**, BSEE'88, BSBA'88, is CEO and president of Firstronic LLC, a provider of advanced electronics manufacturing services and supply chain solutions in Grand Rapids. The company was recently ranked No. 1,685 on the Inc. 5000 list of the nation's fastest-growing private companies. He was the Ernst & Young Entrepreneur of the Year in 2006.

**Michael C. MacDonald**, BSCE'89, PE, was appointed to the board of directors at Bloomfield Hills-based Hubbell, Roth & Clark Inc. as vice president/partner.



**Brian K. Shell**, BSEE'90, recently published his first sci-fi novella titled "Attack of the Electronic Dust Bunnies." This is his first work of fiction and 32nd Kindle eBook. Brian was an adjunct professor of engineering during the 2015 winter term at Lawrence Tech.

**Stephen M. Lodge**, BSAr'91, MAR'02, was promoted to principal and director of architecture at SmithGroupJJR in Detroit.

**John S. Boulahanis**, BSEE'92, PE, managing member and owner of JAMA Consulting in Ann Arbor, received the annual Distinguished Service Award from the Engineering Society of Detroit for his outstanding contributions to the Greater Detroit Section of ASQ.

**Richard Renaud**, BSAr'92, BA'94, AIA, LEED AP, was named senior associate at Quinn Evans Architects in Washington, D.C.

**MaryJean Maio**, BSAr'93, is the owner of Interiors by MaryJean Maio in Windsor, Ontario. Her work on designing a condo retreat on Bob-Lo Island for businessman Tony Vitella was featured in a recent issue of *The Windsor Star*.

# A L U M N I N O T E S

## 1994-2002

**Troy D. Paionk**, BSCvE'95, PE, joined the Lombard, Illinois, office of Manhard Consulting as senior project manager.

**Gino J. Del Pup**, BSAr'96, MAr'01, was promoted to vice president, project management at Plante Moran CRESA in Southfield.

**Slobodan "Bob" Varga**, BSAr'96, LEED AP BD+C, was promoted to vice president at SmithGroupJJR in Detroit.

**Tricia A. Wolters-Beck**, BSAr'96, MAr'97, was promoted to principal at SmithGroupJJR in Detroit.

**Jeffrey B. Atkins**, BSAr'97, joined Plante Moran CRESA in Southfield as a senior associate of project management.

**Adam D. Kahn**, MBA'99, joined SmartDrive Systems in San Diego as senior director of product marketing.



**Adam C. Pew**, BSAr'00, a partner at Studio|H2G in Birmingham, was honored as one of 40 under 40 up-and-

coming designers by *Design:Retail and GlobalShop*.



**Kevin P. Mlutkowski**, BSTPC'01, director of sustainability and marketing at the American Concrete Institute

in Farmington Hills, was recognized as one of the "Rising Leaders for 2015" by the Michigan Society of Association Executives.

**Joel M. Norton**, BSAr'11, was hired as an architectural coordinator in the Marquette office of Chicago-based Myefski Architects.

**Allison J. Singer**, BSME'11, a chassis controls functional engineer at Fiat Chrysler Automobiles, was profiled in *The Detroit News* for her role in developing the automatic transmission for the 2015 Italian import Fiat 500 Abarth.

**Kathryn J. Grube**, MID'12, assistant professor of interior design at Johnson County Community College in Kansas, received the school's 2015 Publications Award for her research on the use of color on classroom walls.



**Ashley R. Brenner**, BSAr'14, MAr'15, was promoted to design architect at TowerPinkster in Grand Rapids.

**Andrew L. Bump**, BSME'14, a research-and-development designer at AET Integration Inc. in Troy, was appointed as AET's Testing Team Lead.

**Michael A. Mandelbaum**, GCertPM'14, a senior analyst for Blue Cross Blue Shield of Michigan, was appointed to fill a vacancy on the Southfield City Council.

**Ali Nasralah**, BSAr'14, is co-founder of HUI Design Group in Dearborn.

## DIT ALUMNI NOTES

**Alexander Kosidlo**, BSIE'50, celebrated his 90th birthday in July. A World War II veteran, he later worked at Ford Motor Company for 23 years.

**Marvis Cofield**, BSSoc'72, founder and CEO of Alkebu-lan Village in Detroit, received the FBI Director's Community Leadership Award for his work to empower inner-city youth.

## News For Alumni Notes

Use the space below to tell us about you or your fellow Lawrence Tech or DIT alums. Mail it to the Office of Alumni Relations, fax to 248.204.2318, or email [alumni@ltu.edu](mailto:alumni@ltu.edu). You may also submit Alumni Notes online at [www.lawrencetech.net](http://www.lawrencetech.net). Tell us about honors, promotions, marriages, appointments, and other activities.

New Address?

Name \_\_\_\_\_

Street \_\_\_\_\_

City State ZIP \_\_\_\_\_

Home Phone (     ) \_\_\_\_\_

Email \_\_\_\_\_

Use the email address above or mail to:  
Office of Alumni Relations  
Lawrence Technological University  
21000 West Ten Mile Road, Southfield, MI 48075-1058



**Tim M. Leinonen**, BSAr'08, was hired as an intern architect at Integrus Architecture in Spokane,

Washington.

**Timothy J. Warneck**, MSE'09, was hired as a secondary school special education teacher in the Elkton-Pigeon-Bay Port Laker School District.

**Richard V. Graham III**, BSCvE'10, MSCvE'13, PE, a design engineer for Spicer Group's Southeast Michigan Water Resources-Dundee office, earned his professional engineer license in January 2015.



# In Memoriam

*Information for this section is gathered from family and friends of the deceased, and from media accounts. When providing an obituary, please furnish as much information as possible, including the date of death and any Lawrence Tech- or DIT-connected survivors and their graduation dates. If sending a newspaper clipping, please include the date and name of the paper.*

**William A. Herrscher**, BSME'49, BSCvE'52, of Northville, May 17, 2015. Mr. Herrscher was superintendent of water and sewer maintenance for the City of Detroit. He was survived by two children and two step-children.

**Manuel P. Costa**, BSME'50, of Southgate, June 7, 2015. Mr. Costa was a project engineer for Chrysler. He was survived by a son.

**Edmund "Eddie" Wayne**, BSME'50, of Dearborn, Aug. 30, 2014. Mr. Wayne was a Ford Motor Company design engineer with a lifelong passion for baseball. A plaque in his honor is now at the Canton Sports Center, where he once celebrated one of his four senior-league national championships. Mr. Wayne was survived by his wife, Irene, three daughters, and a son.

**William E. Johnson**, BSEE'50, of Littleton, Colorado, Feb. 5, 2015. Mr. Johnson was survived by his wife, Elizabeth.

**William H. Meixner Jr.**, BSME'50, BSIE'57, of Rutland, Massachusetts, March 24, 2015. Mr. Meixner was an engineer for over 38 years, working for Unisys and Raytheon. He was survived by his wife, Jeanette, two sons, and two daughters.

**Milton E. Winyall**, BSChE'50, of Catonsville, Maryland, April 30, 2015. Mr. Winyall worked for 37 years at W.R. Grace and Co., where his research on silica gel led to a number of U.S. patents. He was survived by his wife, Bette, two sons, and a daughter.

**John E. Cooper**, BSBA'51, of Penn Valley, Pennsylvania, June 6, 2015. Mr. Cooper worked for 35 years for Heublein Inc. as a personnel director and purchasing manager. He was survived by his wife, Irene, and four daughters.

**Robert F. Diederich**, BSME'51, of Rochester Hills, Aug. 24, 2015. A retired engineer at the General Motors Tech Center, Mr. Diederich was survived by his wife, Regina, four sons, and two daughters.

**George H. Heman**, BSChE'51, of Killingly, Connecticut, June 9, 2015. Mr. Heman was vice president of operations at Warner Lambert. He was survived by five sons and three daughters.

**Richard L. Crawley**, BSEE'52, of Commerce Township, March 27, 2015. An internal auditor at Michigan Bell, Mr. Crawley was survived by a son.

**Omer C. DeClercq**, BSME'52, of Bloomfield Hills, March 9, 2014. Mr. DeClercq was a sales engineer for the New Departure-Hyatt Bearings Division of General Motors. He was the father of three sons and a daughter.

**Edward P. Kubiske Jr.**, BSCvE'55, of Jackson, Jan. 10, 2015. He was survived by his wife, Patricia.

**Chris J. Spaseff**, BSME'56, of Farmington Hills, May 29, 2015. Mr. Spaseff, a retired Ford Motor Company engineer, was survived by his wife, Shirley, a son, and a daughter.

**Wendall C. Bestrom**, BSME'57, of Hot Springs, Arkansas, Jan. 14, 2015. He was survived by his wife, Betty, and two sons.

**Henry T. DeLoche Jr.**, AMT'57, of Copperas Cove, Texas, Jan. 4, 2014. A retired business owner, Mr. DeLoche was survived by his wife, Merrie Lee, and two daughters.

**James A. Parker**, BSIM'58, of Weeki Wachee, Florida, May 28, 2015. Mr. Parker was retired director of community projects at United Technologies Corp. He was survived by his wife, Marjorie, two sons, and a daughter.

## A. Leon Linton – entrepreneur and benefactor



A. Leon Linton, BSME'62, HD'14, of Germantown, Tennessee, June 24, 2015. Mr. Linton, 81, was the founder and CEO of Memphis-based Southern Systems Inc., which designs, builds, and installs custom conveyor systems for manufacturing and distribution facilities. In 1968, he received the Alumni Achievement Award.

In 2009, the A. Leon Linton Department of Mechanical Engineering was named in his honor. At the dedication ceremony, the LEGENDS Board of Directors presented Mr. Linton a Certificate of Recognition honoring his exceptional entrepreneurial journey, his commitment to Lawrence Tech, and his generous gift of \$2.5 million to the College of Engineering. "The education I received at Lawrence Tech has been the backbone of all the activities I have done throughout my working life," Mr. Linton said at the time.

Mr. Linton was elected to the College of Engineering Hall of Fame in 2012. In 2014, he received an honorary degree from Lawrence Tech and delivered the commencement address. Mr. Linton was survived by his wife, Glenda, four daughters, and a son.

**Wilfred M. Fettis**, ARACT'59, of Petoskey, Dec. 19, 2014. Mr. Fettis worked at Michigan Bell for 36 years. He was survived by his wife, Lois, two sons, and two daughters.

**Kenneth F. Knudsen**, BSME'60, of The Villages, Florida, Jan. 31, 2015. He was survived by his wife, Mary.

**Richard C. Mouch**, AMT'60, of Troy, May 26, 2015. Mr. Mouch worked on the General Motors manufacturing development staff for more than 30 years. He was survived by his wife, Virginia.



**Robert P. Wieland**, BSArE'60, of Loudon, Tennessee, July 28, 2015. Mr. Wieland worked for 33 years as an architectural engineer for the Argonaut Realty division of General Motors. He was survived by his wife, Shannon, two sons, and a daughter.

**Ronald R. Wisner**, BSME'60, of Adrian, June 29, 2015. Mr. Wisner was vice president of refrigeration engineering for Tecumseh Products Co. He was survived by his wife, Carol, three daughters, and a son.

**Donald N. Hill**, AEET'61, of Phoenix, Arizona, Dec. 18, 2014. Mr. Hill was a computer systems engineer at IBM. He was survived by his wife, Julie, two sons, and a daughter.

**Aloysius E. Schneider**, BSME'61, of Saginaw, May 16, 2015. Mr. Schneider was a regional supervisor for Consumers Energy. He was survived by four children.

**Richard A. Golembiewski**, BSME'62, of Naples, Florida, May 25, 2015.

**Kenneth S. Kosnic**, BSIM'64, of Sterling Heights, Aug. 5, 2015. He was the chief judge of the 41-A District Court in Sterling Heights. In 2002, the city renamed the "Kenneth J. Kosnic 41-A District Court Building" in his honor. Judge Kosnic was survived by his wife, Judith, and three children.

**Oscar F. Lichner**, AMT'64, of Canton, July 31, 2014. Mr. Lichner was a senior designer at General Motors. He was survived by three daughters and a son.

# I N M E M O R I A M

**Bernard B. Jarvis**, AEET'64, of Dearborn, March 22, 2015. Mr. Jarvis was a senior inspector for DTE Energy. He was survived by his wife, Wanda, two daughters, and a son.

**Thaddeus W. Olszyn**, BSME'66, of Brighton, July 2, 2013. Mr. Olszyn worked for Ford Motor Company. He was survived by his wife, Patricia.

**John Sebu**, BSIM'68, of Elkhart, Indiana, Jan. 2, 2015. Mr. Sebu was a department manager at Parke Davis, now Pfizer, and later worked for Whitehall Pharmaceutical. He was survived by a son and a daughter.

**Clarence O. Affelt**, ABCT'69, of Ida, Jan. 3, 2015. Mr. Affelt was a maintenance supervisor at Cobo Conference & Convention Center in Detroit.

**Robert G. Maziasz**, BSIM'69, of Warren, Feb. 15, 2015. Mr. Maziasz was a budget analyst at U.S. Tank Automotive & Armaments.

**Richard C. Clifford**, BSIM'71, of Rochester Hills, May 28, 2015. Mr. Clifford was a financial analyst for General Dynamics. He was survived by his wife, Susan.

**David G. Markus**, BSMA'72, of Shelby Township, April 23, 2015. Mr. Markus was a Chrysler retiree. He was survived by his wife, Kathy, and a daughter.

**Forrest S. Brundage**, BSIM'73, of New Hudson, Feb. 15, 2014. Mr. Brundage was a mechanical engineer for Ford Motor Company. He was survived by two sons and a daughter.

**Alan E. Craddock**, ACmT'74, of Waterford, Dec. 4, 2014. Mr. Craddock was retired from DTE Energy. He was survived by his wife, Sandra, and three daughters.

**Robert L. Krauss**, ADP'76, of Rochester Hills, Aug. 26, 2014. He was survived by his wife, Virginia.

**Sam D. Manzella**, BSBA'76, of Tempe, Arizona, Aug. 1, 2013. Mr. Manzella worked for Ford Motor Company.

**Ralph P. McCormack**, BSIM'78, of Seven Lakes, North Carolina, April 29, 2015. Mr. McCormack worked for Chrysler for 32 years. He was survived by his wife, Donna.

**Karl J. Merritt**, BSME'79, of Clinton Township, Dec. 25, 2014.

**John Jaruzel**, BSME'82, of Houghton Lake, July 8, 2012. Mr. Jaruzel owned John's Sheet Metal. He was survived by his wife, Jo Ann, and two sons.



**Majid Mokhbery**, BSEE'82, BSMA'82, of Chula Vista, California, Dec. 6, 2014. He worked in the automotive

industry for 10 years before moving to California. He founded Amaya International and pursued wellness programs and executive coaching. Mr. Mokhbery was survived by his wife, Kahnoush, and three sons. His brothers include **Javad Mokhbery**, BSME'79, and the late **Mohammed Mokhberi**, BSIM'78.

**Brian R. Welkenbach**, BSEE'85, of Farmington Hills, March 15, 2015. Mr. Welkenbach was an engineer for several companies including Bosch Corp.

**Karl A. Moffit**, BSBA'89, of Phoenix, Aug. 17, 2015. Mr. Moffit worked for Sears.

**Susan C. Pianka**, BSTC'99, of Bloomfield Township, Aug. 8, 2013. She was survived by her husband, Juergen, two sons, and a daughter.

**Milissa A. Matsen**, BSEE'03, of Farmington Hills, Dec. 22, 2012. Ms. Matsen was a former employee of the Dolan Co. She was survived by a daughter.

**Michael V. Fregonara**, BSME'13, GCertAeE'13, of Dearborn, April 17, 2015.

## THE LAWRENCE TECH FAMILY

### Frank A. Carnovale

Frank A. Carnovale, 61, of Birmingham, an adjunct professor in the construction management program and owner of Carnovale Associates Inc., died July 11, 2015. "He was a great teacher and friend to our students, faculty, and our department," said Jerry Cuper, a professor and advisor in the engineering technology program. Mr. Carnovale was survived by his wife, Paula, two sons, and two daughters.

### Edward P. Jagosz

Edward P. Jagosz, 97, of Caro, a former adjunct professor, died April 14, 2015. Mr. Jagosz, a graduate of Wayne State University, was a tool and process engineer at General Motors. He was survived by a son and a daughter.

## DIT IN MEMORIAM

**Louis Vlahantones**, BBA'50, of Grosse Pointe, July 31, 2015. Mr. Vlahantones was the founder and president of Donovan and Associates, a real estate development company. He was survived by his wife, Toni.

**James E. Thebert**, BSME'50, of Colorado Springs, Colorado, Dec. 6, 2010. Mr. Thebert was chief mechanical engineer at Aerospace Defense Command (USAF). He was survived by his wife, Virginia, three daughters, and a son.

**Adam S. Troscinski**, BSBA'52, of Rochester Hills. Mr. Troscinski was a senior manufacturing project engineer at General Motors. He was survived by four sons and a daughter.

**William F. Jones**, BSEng'56, of Traverse City, July 16, 2015. Mr. Jones was a draftsman for Mobil Oil. He was survived by two sons and a daughter.



**Tarik S. Daoud**, BSEng'60, of Bloomfield Hills, May 24, 2015. Mr. Daoud, a native of Iraq, was the longtime CEO of AI

Long Ford in Warren and the founder of the American Arab Chamber of Commerce. He received numerous awards in his lifetime, including Lawrence Tech's Alumni Achievement Award in 2003. Mr. Daoud was survived by his wife, Helen, three daughters, and a son.

# REPORT TO INVESTORS



# REPORT TO INVESTORS

## FROM THE PRESIDENT AND CEO

Thanks to the hard work of so many in the Lawrence Technological University community, the past year has been remarkably productive and eventful. Our success in engaging allies in LTU's cause and raising contributions to support campus needs has never been stronger. The ambitious Proud Heritage, Bold Future capital campaign that will conclude June 30, 2016, has raised over \$121 million in cash and pledges and has already provided important new scholarship resources and facility enhancements.

In September, we opened our third campus housing center, the new Lloyd E. Reuss Residence Hall, named to honor the University's great friend, supporter, and longtime former Board of Trustees chair. In October,

in Detroit's burgeoning Midtown, the opening of the University's Detroit Center for Design + Technology attracted wide attention. We are on time and on budget to open the first phase of the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex by the start of the 2016 fall semester. These new buildings and facilities provide essential space for our students and faculty to develop creative solutions to the challenges and problems of today and beyond.

Even as these important new facilities come on line, LTU's reputation has continued to grow. Perhaps the best indicator of this success is a new study from the prestigious Brookings Institution in Washington, D.C., that ranks Lawrence Technological University fifth in the coun-



try for providing the most value-added in preparing its graduates for well-paying occupations. LTU and other leading schools identified in the study were hailed as the new "college superstars" by CBS MoneyWatch.

The goal of the Brookings study was to go beyond the traditional rankings that reward colleges that primarily admit wealthy, smart stu-

*President Moudgil makes a point to Arun Kumar Singh, India's ambassador to the United States, during his visit to the University in October. At left is Congresswoman Brenda Lawrence. Forty-nine countries are represented in LTU's student body, with India providing a large percentage.*

dents who can be expected to do better in their careers than most college graduates. Instead, the Brookings researchers wanted to determine if colleges actually made a difference in preparing their students for successful careers. They sought out more data sources and covered many more of the nation's 6,000-plus two- and four-year colleges than are ranked by *U.S. News & World Report*. They endeavored to take into account student profiles and majors when comparing the career outcomes of alumni from different colleges. The yardstick becomes the value

*President Virinder Moudgil kicks off the annual President's Symposium in September. A panel of experts, moderated by Michigan's Department of Transportation Director Kirk Steudle, BSC'E'87, provided insights into the rapid development of new technologies in the transportation sector.*



# REPORT TO INVESTORS

added by a college in comparison to its peer group. The study notes that the five quality factors strongly associated with more successful economic outcomes for alumni are curriculum value, alumni skills, STEM orientation, completion rates, and student aid.

The Brookings conclusion was that LTU added more value – virtually the same as the California Institute of Technology – with respect to occupational earning power compared to four-year institutions with similar characteristics and students.

And speaking of *U.S. News*' Best Colleges ranking, where LTU has historically placed within the top tier of its classification of Regional Universities-Midwest, our College of Engineering moved up significantly overall among best undergraduate programs for engineering in the U.S. – from 41st last year to 23rd in 2015. And if that jump was not remarkable enough, *U.S. News & World Report* ranked LTU's civil engineering programs among the top five nationally. *U.S. News*' engineering rankings are based solely on the judgments of deans and senior faculty at peer institutions.

Organizations as diverse as the Kern Family Foundation, the Kresge Foundation, and the National Science Foundation have placed LTU at the lead of important new investigations to improve educational success and outcomes.

Over the past 18 months or so, the trustees and many others within the LTU commu-



**President Moudgil speaks to a large group at the dedication ceremony for the Lloyd E. Reuss Residence Hall in September.**

nity collaborated to develop a new Strategic Plan, the sixth in a series of plans that have guided LTU since we formalized our planning process in 1999. Each update reflects the evolution and advancement of the University and provides the “roadmap” for where we want it to be and how we will get there.

As part of the process, LTU's vision statement was refined through deliberations of our campus-wide committee and now states: “*to be recognized for transformative STEM and Design education that develops leaders with an entrepreneurial mindset and global perspective.*”

Reflecting contemporary issues in the knowledge-based economy, our revised mission statement is: “*to develop innovative and agile leaders through a student-centric learning environment and applied research embracing theory and practice.*”

As goals were achieved and new plans developed over the past 16 years, the geographic

restrictions of previous plans were eliminated. Indeed, our ultimate goal is for LTU to be “best in class” (some might say “world class”) in all manifestations of what we do. I want to thank our trustees, led by Strategic Planning Committee Chair Howard Padgham, who worked closely with the University leadership team, deans, faculty, students, and alumni who have been

**Beth Chappell (center), president and CEO of the Detroit Economic Club, introduces President Moudgil to General Motors CEO Mary Barra. GM has long been a major employer of LTU graduates.**



# REPORT TO INVESTORS



***President Moudgil presents LTU's 2015 Global Citizen Award to Microsoft Vice President John Fikany as part of the annual Global Village Project in August. The presentation was made during the Convocation to welcome new students.***

part of the effort.

LTU's focus will remain on continuing to build excellence in all we do. We are living by our motto of some 84 years, Theory and Practice, and continue our long-held emphasis on leading-edge, technology-empowered education with students working in teams in a practice orientation. Our commitment to applied research allows faculty to become more than just teachers describing the work of others. They are active contributors to what is taught and practiced. LTU also is among a handful of universities that integrate leadership throughout the undergraduate curricula, emphasizing character and integrity.

The Corporate Partners Wall created last year honors Lawrence Tech's industrial and business partners and showcases the many opportu-

nities for faculty and students to build life-long professional relationships.

Many doors are once again opening for collaboration and new educational partnerships following the resolution of most of this region's financial turmoil caused by the Great Recession and Detroit's fiscal uncertainty, and the return to profitability in the automotive

and construction industries that employ so many of our graduates.

Much has been said recently about the importance of STEM (science, technology, engineering, and mathematics) education. The term applies to educational policies and curricula, from kindergarten through college, with goals to improve America's global competitiveness. It has significance for workforce development, national security, economic opportunity, and more.

Lawrence Technological University is firmly committed to offering STEM and STEM-leading education, buttressed with design education. The new Strategic Plan also acknowledges the growing strength of the arts at LTU, a linkage that nationally is often referenced to as STEAM education. LTU has always focused on the application of science to meet community

***President Moudgil confers with Steve Forbes, chairman and editor-in-chief of Forbes Media, who was awarded an honorary degree at Commencement in May.***



# REPORT TO INVESTORS

needs and industrial and business objectives. Our efforts have met with great success both here on campus and as we reach out to younger, future college students to help them better prepare for the many opportunities in these fields. Exciting new partnerships with the Detroit Public Schools, the Manoogian School, and Brother Rice High School hold great promise.

Some four years ago, the consulting group Art & Science, LLC studied the University and its constituents and affirmed the importance of technological innovation and future thinking in all we do. Those results further encouraged the transition of the University's culture to focus on leading-edge technological programs and delivery and to create a caring and engaged student life.

Clearly, Lawrence Technological University is on the right path. As the Brookings study attests, there is some special magic occurring on campus, some rare confluence of skill set development, that provides our highly motivated students with the foundation and encouragement they can use to achieve success in proportions far above what is typical.

Students who choose Lawrence Tech are serious and committed to success – no matter where they are on their professional path. LTU placed among the top 100 colleges and universities nationwide in the 2015 PayScale College Salary Report, which measures the earning power of

graduates. The average mid-career salary for recipients of bachelor's degrees from LTU ranked 83rd among more than 1,000 colleges in the survey – the best ranking in the metropolitan Detroit region.

From developing the Taurus and GTO automobiles to the DeLorean of “Back to the Future” movie fame; from designing the tallest building in China to major shopping malls and professional sports stadiums; from managing the production of jet fighters to producing sensors for NASA's Mars Curiosity rover; from leading the largest technology company in the world to becoming chairman of the U.S. Chamber of Commerce, LTU's former students are leaving an indelible mark on the world stage.

Lawrence Tech is well positioned to grow as a contributor to improving the quality of life in the Great Lakes region, the United States and abroad, preparing graduates empowered with critical thinking in emerging areas of technology and economic sectors. We appreciate the vital contributions that LTU's alumni, donors, volunteers, and other friends provide that support today's and tomorrow's progress. Thank you!

  
Virinder K. Moudgil



*President Moudgil welcomes Ohio Gov. John Kasich during a campaign stop at Lawrence Tech in August. Kasich is seeking the Republican nomination for president. The University attracts office seekers from both major parties to speak to LTU students.*

## VISION, MISSION, VALUES, CAUSE

The Vision, Mission, Values, and Cause statements in Lawrence Technological University's newest Strategic Plan, developed with broad campus involvement, reflect LTU's emphasis on technological innovation. The Vision and Mission were revised from the 2012 version.

**Vision:** To be recognized for transformative STEM and Design education that develops leaders with an entrepreneurial mindset and global perspective.

**Mission:** To develop innovative and agile leaders through a student-centric learning environment and applied research embracing theory and practice.

**Values:** Character and Integrity  
Theory and Practice  
Teamwork and Trust  
Student-focused and Caring

**Cause:** The intellectual development and transformation of our students into critical thinkers, leaders, and lifelong learners.

# R E P O R T T O I N V E S T O R S

## BOARD OF TRUSTEES



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**Larry D. Lyons**  
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Team, Chrysler Corp.



**Howard B. Padgham**  
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**Barbara Samardzich**  
Chief Operating Officer,  
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**Victor A. Saroki,**  
BSAr'79, BAR'80  
President, Victor Saroki &  
Associates Architects, PC



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Ross Controls



**Joseph L. Welch**  
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ITC Holdings Corp.



**David B. Wohleen**  
Former President,  
Electrical, Electronics  
Safety and Interior Sector,  
Delphi Corp.



**Cary B. Wood,** MSIO'96  
President and CEO,  
Sparton Corporation

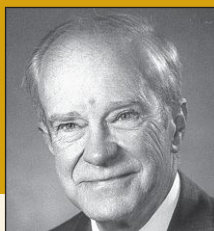
## ADVISORY MEMBERS OF THE CORPORATION



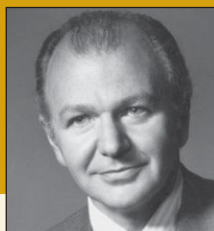
**MaryAnn Wright**  
Vice President,  
Engineering and  
Product Development,  
Johnston Controls  
Power Solutions



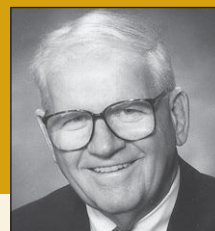
**Richard H. Cummings**  
Former Senior Vice  
Chairman, NBD Bank and  
NBD Bancorp, Inc.



**Edward Donley,** BME'43  
Former Chairman, Air  
Products and Chemicals,  
Inc.



**Julius L. Pallone**  
Former President and  
Chairman,  
Maccabees Mutual Life  
Insurance Co.



**Kurt O. Tech,** BSME'48  
Management Consultant;  
Former President, The  
Cross Company



**Virinder K. Moudgil**  
President and CEO,  
Lawrence Technological  
University

## EX OFFICIO



## FROM THE PROVOST

It is with great pleasure that I share some of our accomplishments and developments for the past academic year as well as some of the events that took place this fall. With students at the center of all LTU does, we strive to continue to enhance academic offerings, campus life, and career opportunities.

Lawrence Tech's enrollment is strong, with an increase this fall of 5.2 percent in students and 5.8 percent in credit hours relative to fall 2014. This increase comes after last year's increase of about 9 percent relative to fall 2013. The graduate student population increased by 13.9 percent and our freshmen class increased by 7 percent, with an average GPA of 3.5 and an average ACT score of 25. Students looking for careers in engineering and other STEAM disciplines find that a Lawrence Tech education is an investment with great return.

Lawrence Tech graduates continue to have high placement with high salaries. With the booming economy in Michigan we had over 300 employers aggressively recruiting students from diverse sectors of industry such as automotive, construction, energy, biomedical, computer and information, and communications. Architectural and design firms were also on campus in record numbers to recruit

graduates. Our placement continues to be nearly 90 percent at graduation. The professional success of our graduates was well documented last year with phenomenal rankings by the Brookings Institution and PayScale as mentioned by President Moudgil.

With the opening of the Lloyd E. Reuss Residence Hall, LTU continues to transition to a residential campus engaging both residential and commuter students in a more vibrant campus culture. This enhances the overall educational experience of all students. Some 750 students are now housed on campus.

About 10 percent of our undergraduates are athletes, competing as part of the National Association of Intercollegiate Athletics (NAIA). During the last academic year men's and women's tennis, men's and women's golf, and men's volleyball were added

to the men's and women's soccer, men's and women's basketball, women's volleyball, men's and women's lacrosse, men's and women's bowling, men's and women's cross-country, and men's hockey teams. Student athletes have enhanced campus life, and our students, faculty, and staff are proud of our Blue Devils. Along with athletics, a pep band, dance team, student theater group, and many other campus clubs and organizations provide ways for students to engage with each other and gain leadership skills that will help make them successful Lawrence Tech graduates.

We are also proud of the diversity of LTU's campus, both among students and faculty. Lawrence Tech's international students come from 49 different countries, with Canada, India, China, Saudi Arabia, and Brazil being the most represented. Students also hail from 35 states with most coming

from Illinois, Ohio, New York, and Texas after Michigan. The diversity of our students and faculty, whether they are international or out-of-state, contributes to LTU's global community and provides important opportunities to share, learn, and experience different cultures and traditions.

The scholarship of our faculty complements and enhances the classroom experience. Many of our students, including undergraduates, team with faculty to participate in research or industry-sponsored projects that faculty attract to Lawrence Tech from industry and governmental sources. In 2014–15, faculty brought in more than \$2,500,000 of outside dollars for research and student projects.

Last year every single undergraduate and faculty member received a new high-end laptop or tablet, following a one-year evaluation of the Lawrence Tech laptop program and an extensive evaluation of the different devices and software available to satisfy the technological needs of LTU's curricula. The transition to the LTU Zone – Hardware, Software, Everywhere program went extremely smoothly and followed excellent internal reviews from students and faculty and an extremely favorable benchmarking comparison with other universities. Once again our program proved to be not only distinctive but also very unique, providing software with a commercial value of up to \$15,000 to our students in addition to their laptop or tablet. That familiarity with the most advanced and current



**Provost Maria Vaz presents the 2015 Alumni Achievement Award to LTU Trustee John Petty, BSME'65, during the annual Commencement exercises.**

# REPORT TO INVESTORS

industry-standard software used in their fields is another reason why LTU graduates “hit the road running” when they enter the workforce.

LTU’s Detroit Center for Design + Technology (DCDT) which had been under development and construction during the 2014–15 academic year, opened this October in Detroit’s bustling Midtown district. The DCDT will provide more excellent opportunities for architecture and design students to participate in the renaissance of Detroit. Our faculty and students have been engaged in urban community projects in Detroit for decades, but the unified presence of the Center will give Lawrence Tech an educational home and recognition as part of the urban experience. A service incubator in the Center will help our students join in professional activities. At least five studios are scheduled at the DCDT starting in January 2016. About 100 students will be taking classes at the DCDT each semester.

Currently we are conduct-



ing a national search for the position of dean of the College of Architecture and Design, following former Dean Glen Leroy’s selection as president of the Boston Architectural College. The strong reputation and profile of Lawrence Tech’s College of Architecture and Design will no doubt attract candidates who will continue to help the College develop and grow. We expect to have a new dean in place by fall 2016.

LTU’s interior architecture program was re-accredited by the Council of Interior Design Accreditation in the past academic year. The team

that visited Lawrence Tech was very impressed with our program.

The faculty members of the biomedical engineering, natural sciences, and robotics engineering programs are preparing to occupy the new Taubman Complex that will open in fall 2016. The Marburger STEM Center, laboratories for these programs, and the new sophomore engineering entrepreneurial studios will also be housed in the space that sets new standards for facilities that prepare LTU’s technological leaders of the 21st century.

The faculty of the College of Management are working to gain accreditation by the Association to Advance Collegiate Schools of Business (AACSB) for the College. The College is already accredited by two other associations: the Accreditation Council for Business Schools and Programs and the International Assembly for Collegiate Business Education. When the process is complete, Lawrence Tech will be among only a few programs in the nation accred-

*Provost Vaz and President Moudgil chat with Bill Ford, chairman of Ford Motor Company, during a Detroit Economic Club event in August. Over 80 years ago, Ford’s great-grandfather, Henry, and grandfather, Edsel, provided important support during LTU’s founding.*

ited by all three. The AACSB process takes about five years. In the spring of 2015 the College’s plan for accreditation was approved. The mentor who works with the dean and faculty has commented on the excellent progress made to date.

We are proud to report these accomplishments and look forward to a bright future and a very busy 2015–16 academic year. Lawrence Technological University’s faculty and staff strive to provide an excellent education that provides outstanding value. The contributions of our alumni and friends as partners in assuring the distinctiveness and affordability of a Lawrence Tech education are essential to our success.

Thank you for your generous support!

Maria J. Vaz



*Provost Vaz discusses growing opportunities for LTU students in Detroit during the dedication of LTU’s Detroit Center for Design + Technology in October.*

# REPORT TO INVESTORS

## FROM THE VICE PRESIDENT FOR FINANCE AND ADMINISTRATION



Linda Height

Lawrence Technological University ended the 2014–15 fiscal year on a very positive note by exceeding budget projections and achieving a surplus of \$3,660,765. Enrollment numbers were strong in both undergraduate and graduate programs, with an overall increase in credit hours of 5.8 percent.

The athletic program continues to positively affect both LTU's enrollment numbers and the overall grade point average of our students.

Athletics have increased the University's national reach by attracting excellent students from around the country and across Michigan. These numbers have contributed to our solid operating performance. Additionally, the growth in international graduate students has been a significant reason for our revenue growth.

Three major construction projects began this fiscal year. The Lloyd E. Reuss Residence Hall, our newest housing facility, was completed using a bond package funded through our banking partner, PNC Bank. Reuss Hall was crucial to Lawrence Tech's ability to attract new students as we have been oversubscribed in housing for several years. With its opening, we can accommodate an additional 150 residential students on campus. We are, however, continuing to lease 50 beds near the campus, as we still do not have enough on-campus housing for all interested students.

All offices in the University

have continued to look for cost efficiencies, and ways in which to economically and efficiently deliver quality service. Although we had a large increase in students, expenses related to delivering services to them remained fairly stable for the year. The two primary expense increases were due to increased scholarship support and our increased debt service from the new housing bond.

Each year, we invest more in providing student scholarships. This year, scholarship support increased to \$17,360,576. In 2014–15 we raised tuition by 4 percent; after factoring in the discount rate, the net tuition increase was only 2.5 percent. As will be reflected in next year's report, there was no tuition increase for the 2015–16 academic year. Of the total scholarship dollars awarded, \$16,360,576 are funded from operations. The remaining amount of \$1 million is funded through the generosity of LTU's donors who have either provided direct sup-

port or endowment funds that generate investment income restricted to scholarships.

Human Resources and the Benefits Committee continued their work in enhancing employee benefits while reducing overall costs. In working with our insurance providers, the Benefits Committee negotiated a competitive rate for our employees for medical benefits, and no cost increase for life, disability, vision, and dental coverage. As a strong advocate for preventive health care, the University instituted the "Healthy Living" initiative two years ago, which has resulted in remarkable benefits across campus for employees and their families. As a group, we are shedding pounds and reducing the need for blood

*LTU's evolving campus is seen in October, facing west, from the 18th floor of the Town Center. On the left is the Taubman Complex, which is under construction. At the far right is the newly completed Reuss Residence Hall. Metin Dogu, BSBA'95, has been capturing weekly photos of construction progress.*



# REPORT TO INVESTORS

pressure medication.

In order to assist our employees with retirement readiness, an additional 0.5 percent match was added to the University match for employees' 403b plan, bringing the match up to 3 percent of salary. Many educational programs are provided to everyone, both individually and in group settings, so employees can be well-informed on all their options. Lawrence Tech's plan is reviewed twice a year by our investment advisor and changes are made when necessary.

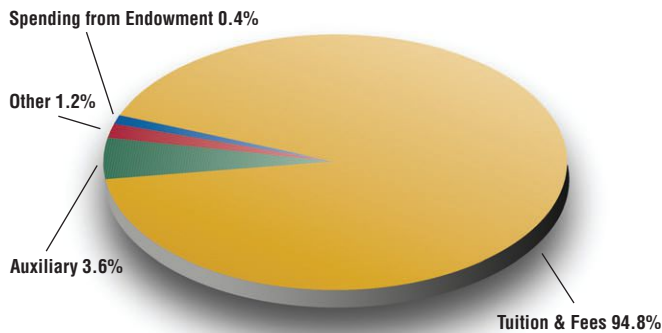
The Office of Campus Facilities kept busy with both

routine maintenance items, lifecycle maintenance requirements, and new projects resulting from the increased student load. This year, due to the very tough winter, it was necessary to completely replace the north end of Parking Lot C. This project cost approximately \$400,000 and was completed before the start of the fall semester. Considerable attention continues to be paid to improving the landscaping across campus.

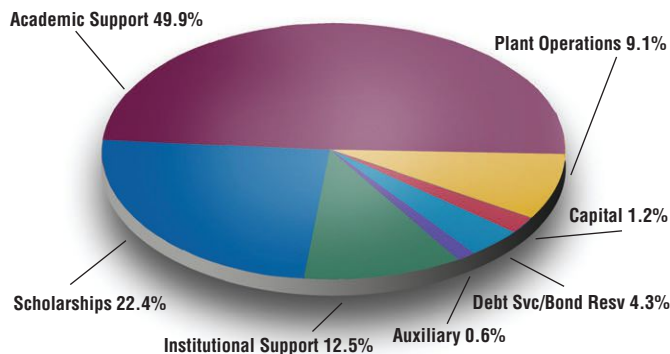
Safety of our people and our data is extremely important. This year, the University has made great strides in this area. We have begun the



## Revenue: \$76,818,035



## Expenses: \$73,517,272



Financial results for the fiscal year ending June 30, 2015

process of upgrading to new IP cameras across campus. We are also adding many more cameras in both interior and exterior spaces. Another safety initiative that has begun is the replacement of LTU's door access system for both interior and exterior doors. When completed, we will have the ability to lock down the entire campus from the Office of Campus Safety in the event of an emergency situation.

Investments in the University's endowment performed well in this fiscal year. Lawrence Tech outperformed similar institutions and the S&P 500 over a one-year period and kept pace with them over a three- and five-year interval. These investments are monitored constantly, and the University's investment strategy is reviewed with the Finance/Investment Committee of the Board of Trustees. Some changes have been made recently to reduce fixed-

*The addition of a third student dormitory required major upgrades to drainage and water management service on campus. Here, the project is underway in January near Ten Mile Road.*

income holdings and protect the value of the portfolio.

Overall, the University is making progress in its goals to increase enrollment and retention. That is important as our revenue comes primarily from student tuition. To assure Lawrence Tech's continued financial health, we must continue to focus on alternative revenue opportunities, cost efficiencies, debt reduction, and increasing the endowment. Improvements in these four categories will help us enhance the financial health of the University as well as its reputation.

*Linda L. Height*

Linda L. Height

A PUBLICATION FOR ALUMNI  
 AND FRIENDS OF LAWRENCE  
 TECHNOLOGICAL UNIVERSITY

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Siemens Software Gift

**SIEMENS**

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FCA Grant

**FCA**

FIAT CHRYSLER AUTOMOBILES

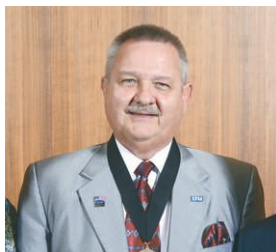
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DENSO Steps Up

**DENSO**

Page 5

Gadzinski Top Volunteer



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Alumni Giving

**TRUE CHALLENGE BLUE**

Page 8

Tech Invitational Wrap-Up



Page 9

# Lawson donates \$100K to name electrical, computer engineering suite

Larry Lawson, BSEE'80, donated \$100,000 to Lawrence Tech and in appreciation the University has named the Larry A. Lawson Suite of the Electrical and Computer Engineering Chair in his honor. Lawson's gift commemorates what he calls "the beginning of my journey, my foundational educational experience here at Lawrence Tech."

President and CEO of Spirit AeroSystems, Inc., Lawson oversees one of the world's largest independent producers of commercial aerostructures. Based in Wichita, Kan., with sites in the U.S., U.K., France, and Malaysia, Spirit AeroSystems is the culmination of a stellar career in aviation for Lawson that also has included senior executive positions with Lockheed Martin Corporation and Lockheed Martin Aeronautics Company.

From an early age, Lawson had his eyes on the skies. Airplanes were a singular passion. "I initially thought about going to the Air Force Academy to become a pilot; but I wore glasses and, at the time, that precluded you from the program. So, I said, 'Well, if I can't fly them, I'll design them!'"

After Lawrence Tech, Lawson earned a master's degree in electrical engineering from the University of Missouri. Later, he went on to complete the advanced management program at Harvard and served as a senior fellow at MIT.

But at the beginning of it all was Lawrence Tech. "I am so grateful for the personal attention I received from wonderful professors like Dr. Richard Marburger, Richard Maslowski, and the late Jerry Crist. I always say Lawrence Tech is the place where I learned how to learn."

Lawson added, "Lawrence Tech is a unique educational community—Theory and Practice is the key. It instills confidence in students because



(L-R) Dean Nabil Grace, College of Engineering; President Virinder Moudgil; Larry Lawson, BSEE'80; and Provost Maria Vaz at the dedication ceremony

they can apply themselves and hone their skills even before they graduate."

He believes education is the ladder to success. "Not everyone starts on the same rung," he said, "but the ladder is there for everyone. We are all invited to climb."

His advice to current students? "Don't limit your vision of what's possible."

His message to potential donors? "Donate to Lawrence Tech where you will see your money at work!"

His reason for making such a generous gift? "I'm investing in Lawrence Tech because Lawrence Tech invested in me."

The Larry A. Lawson Suite of the Electrical and Computer Engineering Chair was dedicated in a special campus ceremony on Oct. 29 with his family and many University officials in attendance.

*continued on page 10*

**"I'm investing in Lawrence Tech because Lawrence Tech invested in me."**

**—Larry Lawson, BSEE'80**



## Siemens \$210M donation of leading software helps LTU students be competitive in job market

In another gesture of company generosity, Siemens, a long-time corporate partner with Lawrence Tech, has made an in-kind gift to the University of its PLM Software with a commercial value of \$210 million.

The gift gives LTU students access to the same technology that companies around the world depend on every day to develop innovative products in a wide variety of industries, including automotive, aerospace, machinery, shipbuilding, and high-tech electronics. Siemens PLM Software is a leading global provider of product lifecycle management software and services.

“Graduates with this type of software training are highly recruited candidates for advanced technology jobs,” said Chris Riedel, associate

# SIEMENS



Tom Turner, Siemens technical trainer, instructs faculty and students on the use of the NX™ software.

chair, mechanical engineering.

“By using the same technology in the classroom that is used by companies to develop innovative products, our students gain important real-world experience during their studies that will serve them well after graduation,” added President Virinder Moudgil.

The Siemens PLM Software in-kind gift for LTU includes:

- NX™ software, a leading integrated solution for computer-aided design, manufacturing, and engineering.
- Teamcenter® portfolio, the world’s most widely used digital lifecycle management software.
- Tecnomatix® portfolio, the industry-leading digital manufacturing software.

“Siemens PLM Software is dedicated to helping develop the next generation of highly trained and highly qualified engineers and technologists. Our academic partnership with LTU encourages students to pursue careers that will revitalize manufacturing in the U.S. and around the world,” said Dora Smith, global director, Academic Partner Program, Siemens PLM Software.

## Robofest® fosters STEM education through robotic competition; GM Cadillac sponsors U.S. teams

Robofest® was created by CJ Chung, professor in Lawrence Tech’s Department of Math and Computer Science, in 2000. Today, that event has morphed into competitions attracting thousands of upper elementary (5th grade), junior high, high school, and college students.

Because of Chung’s leadership role in LTU’s Robofest, he was selected to lead the USA for the World Robot Olympiad (WRO), which is a global autonomous robotics competition with nearly 20,000 teams from over 50 countries.

This year three Michigan teams—Robofest, Pi-Rho Technics, and RoboExplorers, all from the Northville/Canton area—were among the seven U.S. teams that traveled to compete in the World Robot Olympiad in Doha,



Qatar, where 500 teams participated. Team Robofest finished eighth in the university regular category; Pi-Rho

Technics finished eighth in the junior regular category.

General Motors Cadillac stepped up with a \$20,000 gift to offset the cost of travel and accommodations for the Michigan teams as well as uniforms and banners for all seven of the U.S. teams.

“We rely on sponsors to help offset the costs on the local, national, and global levels, and the students will never forget the support they received,” said Chung.

Both the 16th annual Robofest World Championship and the WRO USA national competition were held at Lawrence Tech in 2015.

To make a gift-in-kind or provide other support for Robofest, visit [www.robofest.net](http://www.robofest.net).

## Hotelling lecture series hosts Deardorff to discuss Trans-Pacific partnership

Alan V. Deardorff, professor of economics and public policy at the University of Michigan, spoke on the controversial Trans-Pacific Partnership as the 2015 Harold Hotelling Memorial Lecturer at Lawrence Tech in November.

Deardorff helped develop the Michigan Model of World Production and Trade, which is used to estimate the effects of trade agreements. He also is conducting theoretical work in international trade and trade policy and has served as a consultant to the U.S. Departments of Commerce, Labor, State, and Treasury, and to international organizations, including the Organization for Economic Cooperation and Development and the World Bank.

The Hotelling lecture series honors Harold Hotelling, associate professor



(L-R) George Hotelling, Barbara Hotelling, Alan V. Deardorff, Glen Bauer, associate dean, College of Arts and Sciences, and Maria Vaz, provost

of economics in the College of Arts and Sciences, who passed away unexpectedly in 2009. Established by his family, friends, and associates, it brings speakers annually to Lawrence Tech who share Hotelling's scholarly intellect for law, ethics, social issues, and economics.

His widow, Barbara, a clinical nurse educator at Duke University School of Nursing and internationally known expert on childbirth, was on hand for this year's lecture along with George, Barbara and Harold's son.

Hotelling, who joined Lawrence Tech in 1989, also served as chair of the Department of Humanities, Social Sciences, and Communication from 1994 to 1999, and as secretary of the Faculty Senate. Hotelling was

the first Lawrence Tech faculty member to teach in the University's program in Wenzhou, China.

*For more information on how to make a gift to the Harold Hotelling Memorial Lecture Series, contact Julie Vulaj, philanthropy director, at 248.204.2313 or [jvulaj@ltu.edu](mailto:jvulaj@ltu.edu).*

## Affleck House enjoys reinvigorated support for house, grounds in 2015 initiatives

The Affleck House, the Frank Lloyd Wright-designed home that was donated to Lawrence Technological University by the Affleck family in 1978, has undergone a series of upgrades and improvements in 2015, thanks to renewed support from volunteers, donors, and alumni.

A "housewarming party" planned by the Affleck House Restoration Council in May asked attendees to buy gifts for the home's recently renovated kitchen from registries at Crate & Barrel and Bed, Bath & Beyond. "An overwhelming success, it completely outfitted the kitchen and gave us an opportunity to recognize the companies—like Templeton Building Co. and Cole Wagner Cabinetry—and individuals who helped in the renovation," said Julie Vulaj,



*Volunteers plant roses to restore Mrs. Affleck's rose garden.*

philanthropy director.

In June, the Affleck House and two other Wright residences—the Turkel House in the Palmer Woods neighborhood of Detroit and the Smith House in Bloomfield Hills—were featured in a day-long public tour that raised more than \$10,000 for future improvements.

The Affleck House's LEAF—Landscape Enhancement Advisory Forum—donated time, effort, and money to transform the home's landscaping. "This is a huge amount of human capital with volunteers putting in many, many hours of sweat equity," added Vulaj. In a related effort, volunteers bought and planted dozens of roses to restore Mrs. Affleck's rose garden to its original glory.

"This has evolved into a University and community endeavor," added Vulaj.

*Affleck House, which is used for University events, can be rented for private functions and is available for public tours. For more information, contact Robin Leclerc, director of university special events and services, at 248.204.2203 or [rleclerc@ltu.edu](mailto:rleclerc@ltu.edu).*

**PROGRAM SUPPORT**

## FCA project allows Transportation Design students to create new, branded vehicle interior

Transportation Design students at Lawrence Tech are participating in a funded project with Fiat Chrysler Automobiles (FCA) to design an all-new, branded vehicle interior.



FIAT CHRYSLER AUTOMOBILES

“Our students had to think like the customer and ask themselves what they would want to see in an interior for a future Dodge, Chrysler, Jeep, or Ram vehicle,” said Keith Nagara, director of transportation and industrial design in the College of Architecture and Design. “We are going through a process very similar to what automakers use in their own product development—brand positioning, benchmarking, visual trend exploration, product strategy, and ultimate design solutions.”

Students researched consumer requirements encompassing many



(L-R) Keith Nagara, director of the transportation and industrial design programs; Peter Corey, senior; Rezi Lomaia, senior; and Cristian Farcas and Carly Edgemon from Fiat Chrysler Automobiles (FCA)

aspects of contemporary lifestyles and tried to determine how they might impact the interior/user interface. They looked at things like car sharing, social media, and emerging technologies.

Executives from FCA come to campus to review the project at various

checkpoints along the way.

“Chrysler has a long-standing relationship with Lawrence Tech,” added Nagara. “This is just another example of the commitment the company has to bringing along young talent.”

## Ways to give before Dec. 31

December is when many Lawrence Tech donors make charitable contributions with income tax deductions in mind. Cash contributions are deductible up to a total of 50 percent of your adjusted gross income. Gifts of appreciated assets may be deductible up to a total of 35 percent of your adjusted gross income and you can avoid capital gains taxes.

### Giving Online

It’s quick and secure to process your gift online at [www.giving.ltu.edu](http://www.giving.ltu.edu). You can make a 2015 gift online via credit card (MasterCard, Visa, Discover, American Express) until midnight Dec. 31. The charge must go through in the same tax year to claim a deduction.

### By Mail

For checks sent in the mail, the postmark, not just the check, must be

dated prior to Dec. 31 to qualify. Mail your gift to:

Lawrence Technological University  
Office of University Advancement  
21000 West Ten Mile Road  
Southfield, MI 48075-1058

### Transferring Securities

Gifts of securities may be transferred electronically to Lawrence Tech through:

Merrill Lynch  
32255 Northwestern Hwy., Ste. 260  
Farmington Hills, MI 48334  
Attn: Michael Sanfield  
LTU Account Number: 642-04-126  
DTC #5198

### Call for Assistance

Office hours are limited during the holiday season, but the Office of University Advancement will be staffed until Dec. 23, 2015. For assistance

with year-end contributions, call 248.204.2300, the earlier, the better.

The University will be closed Dec. 24 through Jan. 4, however, year-end charitable gifts will be processed during that down time. If you need assistance making a gift after the office closes for the holidays, please call Dennis Howie on his cell phone at 248.835.0316.

Lawrence Tech receives only two major forms of revenue—tuition and private support. Your gift makes the critical difference and provides future students a Lawrence Tech education.

*For more information about giving appreciated securities, depreciated securities, or mutual funds; rolling over an IRA; or making a life insurance or life income gift, contact Dennis Howie, senior associate vice president for university advancement, at [dhowie@ltu.edu](mailto:dhowie@ltu.edu) or 248.204.2304.*



## Wireless mobile network research funded by DENSO for undergraduates



With a \$50,000 grant, DENSO North America Foundation is underwriting a research effort that gives LTU undergraduates in mechanical, electrical and computer, and civil engineering an interdisciplinary opportunity to develop mobile, wireless sensor networks (MWSN) to help keep drivers safer.

“An MWSN combines vehicle-to-vehicle and vehicle-to-infrastructure connectivity to give drivers 360° awareness of their surroundings,” said Kun Hua, assistant professor in the Department of Electrical and Computer Engineering. Along with James Mynderse, who teaches in the A. Leon Linton Department of Mechanical

Engineering, and Nishantha Bandara, who teaches in the Department of Civil and Architectural Engineering, the grant is funding three different research programs that include nearly 100 students. A number of courses and labs in all three departments will provide students with the knowledge needed to conduct the research.

According to the National Highway Traffic Safety Administration, 5.7 million traffic accidents occurred in 2013, resulting in more than 32,700 fatalities. Intelligent traffic systems, like the ones the students are developing, will improve safety. In addition, information about road conditions and traffic congestion that

will be transmitted to drivers also could improve traffic flow and reduce fuel consumption.

The grant will give students hands-on development experience, help build an interdisciplinary lab for the work, and purchase the equipment and supplies necessary for the projects.

Currently in development, the sensor networks are expected to be installed on test vehicles in the spring of 2016.

“Our students are not only learning valuable, marketable skills, but they also have the satisfaction of knowing that what they’re creating may actually save lives in the future,” added Hua.

## Ford Motor Company gives LTU \$15K to underwrite industry-sponsored project



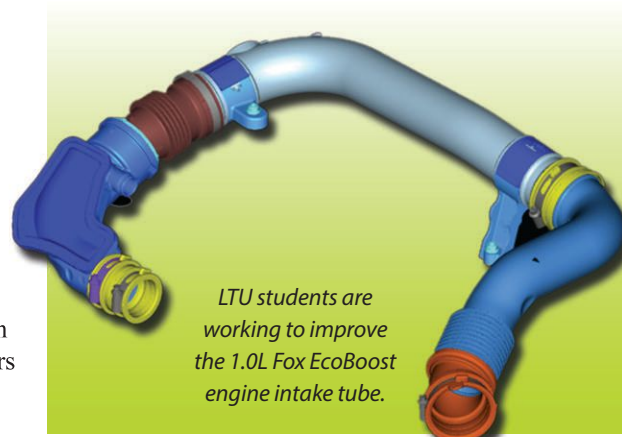
Four mechanical engineering students were granted \$15,000 from Ford Motor Company to develop a new air induction duct for Ford’s 1.0L “Fox” EcoBoost engine to have optimal air flow in the system.

In this industry-sponsored-project (ISP), the students will investigate the effect of performance factors such as geometry, surface roughness, internal air speed, and other factors to lower cost and increase power. Final assembly ergonomics will also be considered.

“Basically, the students are looking

to improve the performance of the part by reducing the friction factor,” said Vernon Fernandez, professor in the A. Leon Linton Department of Mechanical Engineering. “Ultimately, they will create a prototype of their design and bench test it.”

Ford Motor Company has been a strong backer of industry-sponsored projects with LTU students for many years. “ISPs give our students hands-on experience, and they help manufacturers by providing additional research resources,” added Fernandez.



*LTU students are working to improve the 1.0L Fox EcoBoost engine intake tube.*

## SmithGroupJJR matches donations up to \$15K for LTU scholarship fund



SmithGroupJJR, an international architecture firm headquartered in Detroit, has established a scholarship fund for Lawrence Tech’s College of Architecture and Design students that draws on the generosity of its own employees who are LTU alumni.

“We promise to match their donations up to \$15,000 over five years to fund the SmithGroupJJR-LTU Alumni

Scholarship Fund,” said Paul Urbaneck, BSAr’81, BAR’82, vice president and a design leader at the firm. “The idea was to create a scholarship for LTU students from former LTU students,” said Urbaneck. “We have nearly 50 employees who are LTU alumni here at the SmithGroupJJR. We know the quality of LTU architecture graduates.”

In addition, the firm intends to

offer a paid summer internship to the scholarship winner each year as a way to attract top talent to the firm. “We see it as a win-win,” said Urbaneck.

*There is still time to take advantage of the matching-fund offer. People who wish to contribute to the SmithGroupJJR-LTU Alumni Scholarship Fund should contact Dennis Howie, senior associate vice president for university advancement, at 248.204.2304 or dhowie@ltu.edu.*

## Manchester bequest caps lifetime of giving

Early on, Willis “Bill” Manchester, BSME’58, informed Lawrence Tech that he had named the University a beneficiary of his estate. “He originally told us that he had earmarked about 1.5 percent of his estate for Lawrence Tech,” said Dennis Howie, senior associate vice president for university advancement. “But when the gift was distributed after his passing last year, it became apparent that he had adjusted his intent. His bequest actually was 7 percent of the estate and totaled a very substantial \$70,000.”

His gift will benefit the construction of the A. Alfred Taubman Engineering, Architecture, and Life

Sciences Complex, and an appropriate naming opportunity in the building will be determined as construction nears completion.

Many years after he graduated, Manchester continued to visit campus. “He was impressed with the changes from his time—dorms on campus, the extensive building projects and, even women students,” said Howie. “And he was pleased that the University never lost its focus on serving the students and promoting the value of Theory and Practice.”

Manchester had always been generous to the University. “Over the years he made numerous gifts to the College of Engineering, the

library, the annual fund, the Alumni Association, and the Taubman Student Services Center,” said Howie. “He always tried to stay engaged and informed. This final gift is an extension of his longtime giving and a very pleasant acknowledgment of what Lawrence Tech meant to him.”

A loyal employee of George A. Bass Construction Company, Manchester also volunteered to prepare tax returns for low-income seniors, recalled Howie. His wife, Shirley, passed away in 1996.



***“This final gift is an extension of his longtime giving and ... acknowledgment of what Lawrence Tech meant to him.”***

*—Dennis Howie, senior associate vice president for university advancement*

## Anonymous donor notifies LTU of \$500K bequest

A donor from the class of 1954, who wishes to remain anonymous, has notified the University that he has named Lawrence Technological University the sole beneficiary of his estate. When the gift is realized, it could total as much as \$500,000

and is intended for scholarships in mechanical engineering.

The donor, who is retired and currently lives in Colorado, has fond memories of his years on the Highland Park campus of the then Lawrence Institute of Technology.

With a degree in mechanical engineering, he was able to translate his training into a successful career at IBM. He is grateful for the start Lawrence Tech afforded him, and he hopes his gift will help place other students on a successful career path.

## Planned giving remembers LTU, offers support

“There are several reasons why donors may want to consider a planned gift to the University,” said Dennis Howie, senior associate vice president for university advancement.

Aside from providing much needed support for student programs, scholarships, capital improvements, and other projects, planned gifts offer the donor:

**Simplicity.** Just a few sentences in a will or trust are all that is needed. For maximum benefit to the University, a basic bequest may be made “to Lawrence Technological University for the general purposes of the University, at the discretion of the Board of Trustees.”

**Flexibility.** Because the gift is not actually transferred until after the donor’s lifetime, benefactors can change their mind at any time.

**Versatility.** A bequest can be structured to leave a specific item or amount of money; it can make the gift contingent on certain events, or leave a percentage of the estate to the University.

**Tax Relief.** If an estate is subject to estate tax, the gift is entitled to an estate tax charitable deduction for the gift’s full value.

To make a charitable bequest, donors need a current will or revocable living trust. The gift can be made as a percentage of the estate or it can be a

specific amount of cash, securities, or property.

“When planning a future gift, it’s sometimes difficult to determine what size donation will make sense,” said Howie. “We know that emergencies happen, and donors need to make sure their families are financially taken care of first. Including a bequest of a percentage of the estate ensures that your gift will remain proportionate no matter how your estate’s value fluctuates over the years.”

*For more information, contact Dennis Howie, senior associate vice president for university advancement, at 248.204.2304 or [dhowie@ltu.edu](mailto:dhowie@ltu.edu).*

## LTU volunteer honored at National Philanthropy Day event at Detroit's Cobo Center

Steve Gadzinski, BSEE'76, was honored as a 2015 Distinguished Volunteer recipient at this year's National Philanthropy Day dinner at Cobo Center, capping off decades of generosity and service to his alma mater.

Former president of the LTU Alumni Association, Gadzinski recently completed a nine-year stint on the association's board of directors.

"Shortly after I graduated, I was invited to a Presidents' Club dinner. I was busy building my career, and Karen and I were starting a family. We didn't have a lot to spare, but Lawrence Tech had given me a wonderful education, so we decided that we could start donating to the annual fund. My employer—Ford—offered matching funds and that increased our gifts."

In 2006, they established the Steve

and Karen Gadzinski Academic Achievement Collaborative Learning Lab in the Taubman Student Services Center with a significant gift; and they honored Steve's father and mother—Walter and Agnes—by purchasing a bench in the quadrangle.

Retired from Ford after a 30-year career, Gadzinski has been a long-standing member of Legends, an LTU group of alumni who inspire students to become entrepreneurs.

"Steve is one of LTU's greatest supporters," said Julie Vulaj, philanthropy director. "It's no wonder he makes a great Santa Claus every year for our LTU Breakfast with Santa Claus." In 2007, he became one of only 14 alumni to receive the Ray Award that recognizes exemplary



*Karen Gadzinski joins her honoree husband Steve Gadzinski, BSEE'76, and President Virinder Moudgil.*

volunteerism at LTU.

And his generosity isn't limited to LTU. After some adult ed classes in the culinary program at Schoolcraft Community College, he turned his hand to cooking meals at area soup kitchens.

"I just think it's important to give back," he said.

He and his wife have two grown daughters and four grandchildren.

## DIT alum DiClemente offers internships, financial support for LTU students

Chuck McKale, vice president and director of mechanical engineering, at DiClemente Siegel Design Inc., is also an adjunct professor at LTU in the College of Architecture and Design.

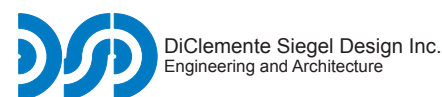
And now he is helping connect the two organizations through a newly formed internship agreement.

"We recently offered internships to two LTU students in architectural engineering," said McKale. "And we hope to offer more. I've always

recognized the benefit of paid internships for both companies and students. It's a great way to identify talent, and Lawrence Tech with its excellent reputation is basically in our backyard."

DiClemente Siegel Design, a multidisciplinary engineering and architectural design firm in Southfield, was founded by Gino DiClemente, '63 DIT, in 1969.

"At our first meeting to discuss the



internships, Mr. DiClemente took out his personal checkbook and wrote LTU a check for \$2,500 to support the students in the program. I was so surprised," said Filza Walters, who teaches in the Department of Civil and Architectural Engineering and was helping facilitate the agreement. "I think he was giving it his stamp of approval."

## LTU Advancement receives CASE award for 'Most Improved Program' over last 3 years

Lawrence Tech was recognized for its improved outcomes in advancement efforts by CASE, the Council for the Advancement and Support of Education.

The award, which covers the last three years, is based on the total number of gifts to the University;

the dollar amounts; participation by alumni, foundations, and corporations; operating expenses; and other criteria.

Established in 1974, CASE is a professional association serving educational institutions and the advancement professionals who work on their behalf in alumni relations,

communications, development, marketing, and allied areas.

"The award also says to donors that a gift made here has a greater impact on the University and makes a major difference to our students," said Dennis Howie, senior associate vice president for advancement.

## 'True Blue Challenge' encourages classmates to compete for giving honors

LTU classmates rallied around the call to contribute to their alma mater in the first ever True Blue Challenge that saw the classes of 1955 and 1985 walk away with the top honors.

Headed by Henry Horltdt, BSIE'55, who served as class chairperson, the Class of 1955 realized a 22 percent giving rate—beating the runner-up by almost 10 percent.

With encouragement from Mike Darga, BSCE'85, the Class of 1985 contributed the most in actual dollars

with a total of nearly \$24,000.

Winning classes and chairpersons were honored at Homecoming during the True Blue Reunion Brunch that was combined this year for the first time with the X-Techs gathering of retired faculty and staff. A plaque commemorating the winners now hangs in the Buell Management Building.

The next True Blue Challenge is now underway with gifts received July 1, 2015, through June 30, 2016,

eligible and classes ending in 1 or 6 competing. "We have three chairpersons signed up—Roger Shtogrin, BSIM'61; Steve Gadzinski, BSEE'76; and Diane Cairns, MBA'01—but we need more," said Lauren Morris, director of alumni relations and annual giving.

Gifts made to the Annual Fund support financial aid and scholarships, student services, academic programs and research, general operating expenses, and faculty resources.

For more information or to donate or volunteer, visit [lawrencetech.net/trueblue](http://lawrencetech.net/trueblue).



### Many ways to give

Donors who wish to make gifts to the University can establish their own endowed scholarships with specific criteria, underwrite existing efforts and programs, or contribute to various funds and scholarships that already have been established. A partial list includes:

**Gordon Bugbee Undergraduate Travel Abroad Scholarship Fund in Architecture** supports leadership conferences and study abroad opportunities for Lawrence Tech students.

**Lawrence Tech Faculty and Staff Scholarship** was established as a vehicle for employees to make an immediate impact and help deserving students obtain the premier education for which the University is known.

**College of Architecture and Design Development Fund** supports computer software and hardware upgrades for the college, renovation of existing labs and auditoriums, graduate program incentives, and student scholarships.

**College of Arts and Sciences Development Fund** supports development of multimedia labs for students, upgrading existing lab equipment, and renovations to the Mary E. Marburger Science and Engineering Auditorium.

**College of Engineering Development Fund** supports maintenance of laboratory equipment in mechanical, civil, and electrical engineering labs; Entrepreneurial Program development; and student scholarships.

**College of Management Development Fund** supports renovation of classrooms in the Buell Management Building, alumni outreach, graduate program student initiatives, and student scholarships.

**Library Fund** provides for the acquisition, preservation, and enhancement of library materials; furnishings and equipment; and development of new online resources.

**Paul Michel and Jane Goding Memorial Endowed Scholarship** was established by Dick Michel and Martha Michel in honor of their children, Paul and Jane.

**Dr. Laird E. Johnston Memorial Endowed Scholarship** was established by Susan Johnston and her sons in memory of her husband, the former dean of the College of Engineering.

**Dr. Charles M. Chambers Memorial Endowed Scholarship** was established by Lawrence Tech and Dr. Barbara Chambers in memory of President Emeritus Charles M. Chambers.

**Dr. Virginia North Memorial Graduate Fellowship** was established by Lawrence Tech and the College of Architecture and Design in memory of Associate Dean Virginia North in support of Architecture and Design graduate students.

### Winterlude reboot

## Something new in '16

"We're making a change," said Robin Leclerc, director of university special events and services. "Starting in 2016, Winterlude—our annual donor recognition event—is going to take on a new personality, timing, location, and name."

For many years, the iconic Winterlude celebration has welcomed donors into the Lawrence Tech giving societies at a variety of venues around southeastern Michigan usually at the end of winter. "But, we think it's time for something new," added Leclerc.

Details are still being finalized. Here's a hint: **Think coming home in the spring.**

**Stay tuned!**

# Tech Invitational raises funds for student programs, sponsors step up with gifts, donations

The 12th annual Tech Invitational golf tournament raised nearly \$40,000 for student programs and projects at Lawrence Tech. Held at Meadowbrook Country Club in Northville, the event attracted enthusiastic players and generous sponsors, who rallied to the cause. (See below.)

“As always, we were so grateful for our friends and supporters and their generosity,” said Robin Leclerc, director of university special events and services.

The festivities this year included a silent auction and displays of Blue Devil Motorsports vehicles around the course.

Next year’s Tech Invitational



Golfers braved drizzling skies to support the Tech Invitational.

will be on Monday, Aug. 8, at Plum Hollow Country Club in Southfield.

For more information or to sign up as a sponsor, contact Robin Leclerc, director of university special events and services, at 248.204.2203 or rleclerc@ltu.edu.



Blue Devil Motorsports team vehicles lined the course.

## 2015 Tech Invitational Sponsors

Presenting Sponsor

**DTE Energy**

Cocktail Reception

**Johnson Controls Advanced Power Solutions**

Brunch

**The Remington Group**

Gift Bags

**DENSO**

Golf Balls

**Aramark Higher Education**

Team Photo and Swing Analysis

**Michigan First Credit Union**

Golf Cart

**LTU Alumni Association**

Beverage Station

**JPRA Architects**

Beverage Cart

**JPRA Architects**

**News/Talk 760 WJR**

Closest-to-the-Pin Contest

**Ricoh, USA Inc.**

Hole-in-One Contest

**Albert Kahn Family of Companies**

**City of Southfield**

**ITC Holdings**

Foursome and Hole Sponsor

**St. John Providence Health System**

Twosome and Hole Sponsor

**CDW-G**

**DeMaria Building Company**

**Harley Ellis Devereaux**

Twosome and Dinner Ticket

**Fred Ciampa**

Hole Sponsors

**AVIS Ford**

**Barnes & Noble**

**CBS/UPN**

**HAP (2)**

**Jacokes Communications**

**Janssen Refrigeration**

**NetWorks Design**

**Fred Paulsen**

**Plante Moran, PLLC**

**State Champs! Sports Network (Mackinac Partners)**

**State Champs! Sports Network (Yellow Flag Productions)**

**2015 PowerPlay Golf Outing Raised \$14K for Blue Devil Hockey**—The Lawrence Tech Hockey Boosters Club drew 172 golfers who played on three courses at the Fox Hills Golf & Banquet Center in Plymouth to raise more than \$14,000 for the Blue Devils Hockey Team. The funds will go to offset the costs of hockey bags, apparel, off-ice activities such as parent meet-and-greets, senior night pizza parties, the Clark Park Winter Classic event, and the end-of-the-season team banquet.

(L-R) Golfers Henry Gary, Kaleb Rodes, Tom Charney, and Tony Colarolssi

## Schumakers establish endowed fund in Lahr's honor

"Someone once asked me what I taught, and I said, 'students,'" quipped Professor Emeritus Leland Lahr, former dean of the College of Management. "But, you know, the funny thing is, once they graduate, those students become friends."

And two of his closest friends—and greatest fans—are Mark, BSIM'84, and Pam, BSIM'74, Schumaker, who recently established an endowed scholarship fund at Lawrence Tech in their favorite professor's name.

"We both look back on our years at Lawrence Tech and realize what a driving force Lee was in our lives," said Pam, who recently retired after holding various accounting and finance management positions in non-profits. "He was always there for us—inside and outside of the classroom."

Mark, who started at LTU, left and worked in the machine tool industry for about eight years. "When I decided that I needed to go back and complete my degree, Lee was instrumental in advising me in the management program," he said.

Later, when Mark established his own company—Micro Systems, Inc.—he relied on Lahr's and other LTU professors' expertise once again. "Lee helped me develop my business plan and came up with several key

points that made it very lucrative for us." The company, which manufactured high-performance dimensional gaging equipment, went on to have customers like TRW, Dow, GM, Cummins Engine, and Federal Mogul. In 1999, Mark sold the product line.

The Dr. Leland Lahr Endowed

Scholarship in Management, which is being seeded with \$10,000 from the Schumakers, will offer assistance to students in the College of Management.

"Our goal is to encourage others who have benefited from Lee's amazing mentoring and

expertise to join in this effort to honor a professor who was truly one of a kind," added Mark.

Lahr, who at 85 is living in Safety Harbor, Florida, with his second wife, Nancy (his first wife, Julie, passed away in 2005), was asked to say a few words about his reaction to the endowment. "You never ask an old professor to say just a few words," he joked. "But, really, I am truly, deeply honored."

*To contribute to the Dr. Leland Lahr Endowed Scholarship in Management, contact Emily Remington, philanthropy officer, at 248.204.2211 or eremington@ltu.edu.*



Leland Lahr

## Lawson gives back

*continued from page 1*

Lawson, a firm believer in "giving back," doesn't limit his generosity. He was honored by the American Diabetes Association with the Stop Diabetes Volunteer Leadership Give Award. Presented to a volunteer who has a significant, ongoing commitment to raising money for research and other mission-driven

purposes, this prestigious, national award recognized Lawson's lifetime of service and his recent effort to help the Wichita Tour de Cure raise \$400,000, more than doubling previous totals. Because both his son and sister suffer from type 1 diabetes, Lawson has been a long-time supporter of the cause.

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*For more information on giving to LTU, visit [www.giving.ltu.edu](http://www.giving.ltu.edu), email [advancement@ltu.edu](mailto:advancement@ltu.edu), or call 248.204.2300.*

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# The Future Starts Here

*By the end of October work had started on closing in the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex on campus.*

**Lawrence Tech students take their first steps** toward successful careers as they participate in classes, labs, and studios surrounding the beautiful Quad at Lawrence Technological University. You can help keep that path open for generations of future students by making a gift to the University in a variety of ways:

- ✓ Annual Giving
- ✓ Major Gifts
- ✓ Scholarship Endowments
- ✓ Charitable Gift Annuities
- ✓ Bequests

**Philanthropy is an important tool** for managing taxes on current income. Charitable gift annuities can guarantee a continuous income stream in retirement. Bequests can be an important part of your estate plan. All three ensure that your legacy will live on at LTU.

**To learn more**, contact Dennis Howie, senior associate vice president for University Advancement, at **248.204.2304** or visit **[www.ltu.edu/giftplanning](http://www.ltu.edu/giftplanning)**



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T H E B A C K P A G E

**LTU honors longtime board chairman at dedication of newest residence hall**

**L**loyd Reuss, the longtime chairman of the Board of Trustees at Lawrence Technological University, was the guest of honor when the Lloyd E. Reuss Residence Hall was officially dedicated on Sept. 28.

LTU's third residence hall is a 47,545-square-foot, two-story building that has five pods, each with 16 double-occupancy units. The \$11.6 million project was completed in time for 150 freshmen to move in prior to the start of classes on Aug. 24.

"Reuss Hall is designed to encourage students to get out of their rooms and interact and collaborate with other students," said LTU President Virinder Moudgil. "We want to get our new students involved in campus life right away."

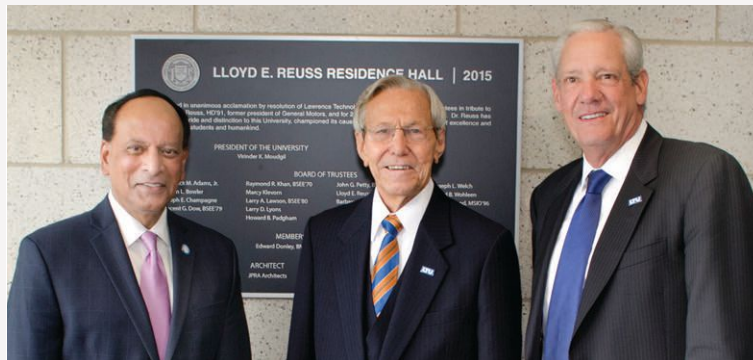
Reuss is a former president of General Motors who has served on LTU's Board of Trustees since 1978. He was chairman from 1993 until 2014.

Among many public officials and civic leaders attending the opening were Southfield Mayor Donald Fracassi; Southfield City Council President Sylvia Jordan and several other mem-

bers of the council; Congresswoman Brenda Lawrence; State Rep. Jeremy Moss; and Oakland County Commissioner Janet Jackson.

The completion of the new residence hall was also a milestone toward LTU's long-term goal to build a strong residential community on campus. The two existing residence halls have space for 600 students, and Reuss Hall has increased the residential capacity by 25 percent. Because of high demand, LTU also leases housing for 60 additional students.

LTU attracts students from 25 states and 60 countries. □EP



*The Lloyd E. Reuss Residence Hall was dedicated at a Sept. 28 ceremony by (left to right) President Virinder Moudgil; Lloyd Reuss, the former chairman of the LTU Board of Trustees who continues to serve as a trustee; and Douglas Ebert, the current chairman.*



*LTU's third residence hall opened in time for the 2015 fall semester.*