

# Lawrence Tech<sup>®</sup>

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Summer 2015



## Competitive edge: student athletes generate extra energy

Hall of Fame honorees leap to solutions | Brookings study lauds Lawrence Tech  
Architectural engineering students triumph | World's second tallest building  
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# Lawrence Tech

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**On the cover:** LTU's Hali Butler hauls down another rebound in a Wolverine-Hoosier Athletic Conference game at the Ridler Field House against Madonna University. She has been the women's basketball team's leading rebounder for the past two seasons. Butler received an All-Conference honorable mention despite missing part of the season due to injury. (*Tim Busch photo*)

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# Competitive

Student athletes bring energy to campus and classroom

# edge



**I**n 2011, Lawrence Technological University embarked on a dramatically new course when it joined the National Association of Intercollegiate Athletics (NAIA) and started an athletics program almost from scratch.

Other than club teams in men's soccer, women's volleyball, men's hockey and bowling, nothing remained from the glory days of Lawrence Tech athletics in the 1930s, '40s, and '50s when the basketball team played in national tournaments and the football team won conference championships.

Four years later close to 300 student athletes are competing on 16 varsity teams and three junior varsity teams, and that number will grow as LTU adds five more teams in the next two years.

LTU's student athletes have demonstrated that they can have the best of both worlds at college. The physical fitness and discipline required for athletic competition carries over to academics – they study more effectively, manage their time better, and focus better in the classroom.

Despite having more commitments, LTU's student athletes achieve a higher grade point average than the student body as a whole.

*Justin Ritchey (center) is LTU's leading scorer in men's soccer with 33 goals in four years.*

While some teams are still shooting for a winning record, LTU athletes are starting to make their mark on the field, on the court, and even on the alleys.

Indeed, LTU's greatest competitive success has been achieved by the men's bowling team, which was ranked 21st in the nation this year. The team won four tournaments on the way to claiming its second straight regular-season championship in the NAIA's Wolverine-Hoosier Athletic Conference (WHAC). And the women's lacrosse team ended its spring season ranked fifth in the National Women's Lacrosse League after winning two out of three games in the national tournament.

## Winning ways

Other recent successes include:

- Women's bowler Jackie Evans qualified for the national singles tournament as a freshman and ended up in 11th place for the entire country.
- Women lacrosse players Alyssa Shaver and Ashley Collins were named All-Americans, and Kadajah Kalo was named to the All-American Second Team.

*Continued*



- Volleyballer Kasey Clark became Lawrence Tech's first NAIA All-American in that sport.
- The men's hockey team returned to a winning record in the 2014–15 season and won a game in the MCHA playoffs.

## Building a strong foundation

Lawrence Tech coaches face a tough challenge when trying to recruit players – they first have to find excellent high school students who can excel in the classroom at the college level. Coaches work closely with the Office of Admissions. The first step is to determine if a student meets the academic requirements to attend Lawrence Tech. Then the potential academic and athletic scholarships are calculated.

“The coaches want to win, but they know they have to recruit good students who are also good athletes,” LTU Athletic Director Scott Trudeau said. “Student athletes have to embrace the LTU culture, and we have smart kids here.”

As it turns out, some of the best students on campus are also athletes. The women's bowling team has a combined grade point average of 3.60, followed closely by the women's golf team at 3.56. All but two of the athletic teams have combined grade point averages above 3.0. Many of LTU's athletes have won WHAC All-Academic honors.

LTU coaches target those high school standouts who have outstanding academic records and are also leaders on athletic teams. Most of these high achievers don't have the physical size or speed to play for NCAA Division I powerhouses like Michigan State University or the University of Michigan, but they still want to pursue the sports that they love.

“LTU is giving these kids the opportunity to continue their athletic careers for four more years,” Trudeau pointed out. “In some cases, they can start playing at the college level right away, instead of sitting on the bench for a year or two at an NCAA Division II school.”

## Academics come first

The responsibility for integrating an athletics program with the rest of the campus fell to Dean of Students Kevin Finn and Assistant Provost for Enrollment Management Lisa Kujawa, who oversees LTU's admissions activities.

They started by making study sessions mandatory for all athletes except for those carrying a grade point average of 3.8 or higher. “With freshmen in particular, we want to make sure they understand that they are students first,” Finn said. “How they do in the classroom is the top priority.”

LTU's Academic Achievement Center provides extra help to hundreds of students, and its hours were extended to accommodate the practice and travel schedules of student athletes.

The hours have also been extended for counseling services on campus. “It's important for student athletes to have someone to talk to about making good decisions and keeping a balance between academics and athletics,” Finn said.

MAP-Works, a student retention tool that is used to follow all students at LTU, is particularly helpful for monitoring student

*LTU Athletic Director Scott Trudeau (left) and Dean of Students Kevin Finn look over a publication of the National Women's Lacrosse League, which ranked LTU fifth overall.*



athletes. In addition to compiling a number of factors in a student's life that pose challenges, the system also provides a place for professors to report on missed classes and unsatisfactory academic work that can lead to academic problems down the road.

“All the coaches have access to the MAP-Works reports. We've had coaches who have sat out a player who needed to put a higher priority on academics,” Finn said. “We've also had students excused from a road game in order to prepare for an important presentation or job interview.”

## The right mix

Research has verified that students who take good care of their bodies by eating well and exercising do better in the classroom. “As President Moudgil likes to say, ‘healthy body, healthy mind,’” Finn said.

In addition to all their academic responsibilities, student athletes have to juggle mandatory study table, weight training, practices, and a grueling playing schedule that involves a lot of travel. As a result, these students must learn time-management skills.

“Students in college have a lot of independence, and let's face it, not everyone makes great choices,” Finn said. “But student athletes have to be disciplined and manage their time wisely.”

As a result, student athletes don't have the time to get sidetracked the way some of their peers do. “Many student athletes are mature for their age when they arrive as freshmen,” Trudeau said. “If they aren't, they have to mature very quickly in order to manage everything.”

The NAIA has a Champions of Character program that reinforces the core values of integrity, respect, responsibility, sportsmanship, and servant leadership. LTU's leadership program includes community involvement, and many student athletes exceed the University's requirements for participation.

Last fall a group of student athletes raised and donated more than \$10,000 to the Special Olympics and other community causes after they worked for Southfield election officials in the primary and general elections.

Finn also points with pride to the long list of Champions of Character awards that LTU athletes have amassed in a relatively short time. “We're being recognized for our good sportsmanship and our service to the community,” he said. “We're still new to this, and it's good to see that we're being recognized for the



## Playing volleyball at LTU was a bonus

right reasons.”

As a group, student athletes have also increased enrollment and diversified the student mix in several academic programs, such as biomedical engineering. The Title IX requirement that equal opportunity be provided to women in athletics has provided a welcome influx of female students.

“Many of our female athletes are majoring in engineering. Having more women in that field makes our campus more attractive to company recruiters, and that helps our male students as well,” Finn said.

### More growth to come

During the 2015–16 academic year, men’s volleyball will be introduced, and a second hockey team will be added to compete in Division III of the American Collegiate Hockey Association. The goal is to have one of the hockey teams move up to Division II competition in the future.

During the 2016–17 academic year, women’s hockey will be added and men’s baseball and women’s softball will be introduced.

All of this growth has stretched LTU’s Ridler Field House to its limit. The athletics staff has grown from three in 2011 to 20 – including part-time coaches and trainers – and every available space has been converted to offices. With only one court and one outdoor field available, almost all of the teams must go off campus at least part of the time for practice or home games.

Despite the cramped facilities, the athletics program continues to grow and thrive. “Our mission at Lawrence Tech is to prepare our students for a lifetime of achievement. It is great to see that our athletics program helps us achieve that goal,” Finn said. □EP

Alicia Miller, BSAr’14, was a three-year starter on the volleyball team at Forest Hills Central High School in Grand Rapids, but athletics wasn’t a factor in her decision to come to Lawrence Tech to study architecture. Instead she relied on the advice she got at Concept Design, an architecture and interior design firm where she had a part-time job while still in high school.

“My supervisors rave about Lawrence Tech. They are alums with nothing but good things to say about the University. I look up to them as employers, so they drove me to apply,” Miller said.

When she arrived on campus in the fall of 2010, she joined the volleyball club team almost as an afterthought.

“I chose Lawrence Tech for its academics, but when I learned I could continue playing volleyball, it was an added bonus that brought balance to my life,” Miller said. “It also enabled me to meet other women on campus. Being a part of the team helped to build relationships in a different way than having classes together or just making friends on campus.”

When volleyball became a varsity sport the following year, she was one of two players on the club team to make the transition.

“It was a bit more demanding and time-consuming, but I enjoyed the added competition. It instilled discipline and forced me to become more organized – which I feel I have taken into the real world,” Miller said.

As a senior she became the first LTU volleyball player to make

the All-Academic Team in the Wolverine-Hoosier Athletic Conference. She studied in Florence, Italy, before graduating magna cum laude with a degree in architecture.

Miller is back working at Concept Design and pursuing a master’s degree at Kendall College of Art and Design in Grand Rapids. Her goal is to become a licensed architect. □BB



Alicia Miller sets up one of her teammates during a volleyball game at the Ridler Field House.

## Stellar performers in the classroom

The athletics program has brought many star students to Lawrence Tech. As a group, student athletes have better grade point averages than the rest of the student body. Here are the grade point averages of LTU’s athletic teams during the 2014–15 academic year:

Women’s Bowling	3.60
Women’s Golf	3.56
Men’s Golf	3.51
Women’s Basketball	3.44
Women’s Cross Country	3.43
Men’s Bowling	3.30
Women’s Lacrosse	3.28
Women’s Soccer	3.28
Men’s Soccer	3.22
Women’s Volleyball	3.21
Men’s Basketball	3.19
Women’s Tennis	3.16
Men’s Lacrosse	3.13
Men’s Cross Country	3.05
Men’s Tennis	2.88
Men’s Hockey	2.88

## 2014–15 was a year of achievements for LTU athletes

Lawrence Technological University’s athletics program has completed its fourth year of competition in the Wolverine-Hoosier Athletic Conference (WHAC), which is a part of the National Association of Intercollegiate Athletics (NAIA).

In addition to scoring goals and points, many LTU athletes were named to All-Academic teams and honored through the NAIA’s Champions of Character program.

*Continued*



## year of achievements CONTINUED

Here are some of the accomplishments during the past year:

### Men's soccer

LTU's men's soccer team, which joined the NAIA in 2011, finished the 2014 season with a 6–12 overall record, earning four more wins than in the previous season, including its first WHAC victory on the road against Aquinas College.

Eight of the 21 Blue Devil goals came off the foot of senior forward Justin Ritchey, who became LTU's all-time leading goal scorer with 33 goals in four years.

Junior Brandon Busuttill, junior Joey Knoff, senior Josh Lance, junior Justin Pilarski, junior Chris Lange, and junior Bart Kowalewski were named to the WHAC All-Academic team. The first four were also honored as NAIA Scholar-Athletes.

Head Coach Will Dyer was named WHAC Champions of Character Coach for the fifth straight year, while Lance was named to the WHAC Champions of Character Team for exemplifying the LIVE5 core values of respect, responsibility, sportsmanship, servant leadership, and integrity.

### Women's Soccer

Launched in 2012, the women's soccer team finished the 2014 campaign with a 5–10–3 overall record, including three shutout victories and a respectable 3–4–1 record on the road.

The Blue Devils' offense generated 16 goals, led by junior Claire Huddas, who earned WHAC All-Conference Honorable Mention honors with her five goals and two assists. Four other goals came from sophomore Nicole Propst, who is LTU's all-time leading scorer with 13 goals.

Sophomore goalie Heather Derstine started all 18 games and finished second in the conference with 117 saves.

Juniors Alexandra Bryden, Amber Klavon, Katelyn Watson, Alex Eddington, and Huddas all earned WHAC All-Academic honors. The first three also earned NAIA Scholar-Athlete honors. Junior Kristin Jordan was named to the Champions of Character Team.

### Volleyball

The volleyball team, which joined the NAIA in 2011, finished with an 18–20 overall record in the 2014 season, including an 8–14 record in the WHAC. That was 11 more wins than the previous year.

Senior outside hitter Kasey Clark accounted for 672 kills – first in the conference and second in the country – and passed the 1,000-kill milestone. Clark earned numerous awards and she became the Lady Blue Devils' first NAIA All-American.

For the second year in a row, junior Mary Armstrong received WHAC All-Conference Honorable Mention as she led the conference with a .310 hitting percentage. She was an All-Tournament selection at the ACC Classic. She and junior Delaney Large were All-Academic honorees.

Sophomore setter Josie Queary ranked third in the WHAC for total assists with 1,382 and was named a Champion of Character.

### Cross Country

During their third season in 2014, the men's and women's cross country teams earned a combined seven top-10 finishes.

The men's best finish was third place at the Otterbien University Invitational. Three Blue Devils finished in the top 20, led by sophomore Graham Elliott, a WHAC All-Conference Honorable Mention who became the first Blue Devil to qualify for the NAIA National Championships following a top-10 finish at the WHAC Championships.

The women's team's best showing came at the Great Lakes Invitational where freshman Emily Foster paced the Lady Blue Devils.

Junior Brendon Clover, junior Kelly Copeland, junior Elizabeth Love, sophomore Nada Saghir, junior Elizabeth Steenwyk, and junior Alexandria Steinke were named to the WHAC All-Academic Team. Clover



*Alyssa Shaver (12) and Ashley Collins (2) finished first and second in goals scored in the National Women's Lacrosse League.*

Members of the women's soccer team who earned all-conference honors this year are (left to right) Alex Eddington, Claire Huddas, Katelyn Watson, Amber Klavon, and Allison Butler.



and junior Samantha Rohrbach were honored as WHAC Champions of Character.

### Women's Basketball

LTU's women's basketball team, which was launched in 2012, qualified for the WHAC tournament for the first time with a 10–13 conference record, and had a 12–15 record overall for the 2014–15 season.

Sophomore Allison Kitchen and junior Hali Butler were both All-Conference Honorable Mention selections. Kitchen led the Blue Devils in scoring average (15.0), steals per game (2.5), and minutes played per game (33.7). Despite being limited to just 18 games due to injury, Butler averaged 10.6 points per game and led the team in rebounding for the second time with eight per game.

Freshman Hayley Walkowski was named to the Champions of Character team, and junior Allison Bicknell earned All-Academic honors. Together the two guards accounted for 20 points, six rebounds, and five assists per game.

### Men's Basketball

The men's basketball team, which returned to action after a long absence in 2012, finished the 2014–15 season with a 5–35 record, although there were promising signs as the long season wore on. The Blue Devils ranked 11th in the NAIA in scoring defense per game (65.37). Offensively, the team ranked in the top 25 in two scoring categories.

Junior Jake Mullin has led the Blue Devils in scoring the past two seasons and is just 15 points shy of the 1,000-point career milestone. Junior Jon Harden led the team with 89 assists, and Junior Brad Watterworth had 116 rebounds.

Harden, Mullin, and Watterworth were joined by junior Jon Osantowski on the WHAC All-Academic Team. Harden was also named a Champion of Character, and he and Watterworth earned NAIA Scholar-Athlete honors.

Head Coach Tom Kempf was honored as the WHAC Champions of Character Coach.

### Hockey

The men's hockey team had a 14–12–1 record in the 2014–15 season and was 12th in the American Collegiate Hockey Association national rankings. The team has played in the Michigan Collegiate Hockey Association (MCHA) for many years, but this was the first time it has won a playoff game.

Freshman Roman Reiner and sophomore Garrett Yesue led the offense

*Shane Gamrat is introduced as a starter before an LTU hockey game on the home ice at the Southfield Sports Arena. In the background are teammates (left to right) Kaleb Rodes, Austin Petty, Mark Viers, Mitch Mikosi, Lawrence Parisi, and Roman Reiner.*





ademic  
aire  
ra Bryden.



*Junior guard Jake Mullin (1) has led the men's basketball team in scoring the past two seasons.*

*The award winners on this year's LTU men's bowling team are (left to right) Jerry Penxa, Eric Pavlov, Maxwell Alestra, Elliot Arnold, Vince Papais, Blake Nottle, Scott Kujawa, and Brian Busch.*



*During her final season on the LTU volleyball team, Kasey Clark (13) passed the 1,000 milestone for kills and became the team's first NAIA All-American.*

with 11 goals apiece, and they both had 18 total points, as did junior Johnny Tiseo.

Freshman goalie Austin Petty made 397 saves in 15 games. Sophomore Larry Parisi, Jr., had a 4–2 mark as the backup goalie, making 198 saves in nine appearances.

Senior Mark Viers, senior Brandon Paulus, and Tiseo were named to the MCHA All-Academic Team.

### Men's Bowling

CollegeBowling.com ranked LTU's men's bowling team 21st in the country on the strength of four first-place finishes and a second-straight WHAC regular season championship during the 2014–15 season. It was another impressive performance for the three-year-old program.

In the American Heartland Intercollegiate Bowling Conference (AHIBC) tournaments, LTU placed in the top three in all four tournaments, including a first-place.

Senior Scott Kujawa and sophomore Jerome Penxa II earned WHAC First Team All-Conference honors, while sophomores Elliot Arnold and Blake Nottle were named to the Honorable Mention team. Freshman Vince Papais represented LTU on the Champions of Character Team.

Junior Maxwell Alestra, sophomore Brian Busch, junior Eric Pavlov, Nottle, and Penxa were named to the WHAC All-Academic Team. Head Coach Jerry Penxa was named WHAC Coach of the Year.

### Women's Bowling

In just its second season, the women's bowling team was runner-up in the WHAC post-season tournament and was seeded 11th in the Intercollegiate Team Championships.

Freshman Jackie Evans earned the program's first individual singles championship bid on her way to receiving WHAC All-Conference Honorable Mention honors. She finished 11th in the national singles tournament.

The Blue Devils had four top-five finishes and 11 top-seven finishes for the season. The team was ranked 41st in the country by CollegeBowl.com at the conclusion of its second season.

### Women's Lacrosse

The women's lacrosse team finished its second season this spring with an 11–7 record. A trio of midfielders, senior co-captain Alyssa Shaver, freshman Ashley Collins, and sophomore Kadajah Kalo, were recognized by the National Women's Lacrosse League (NWLL) for outstanding play.

Shaver became LTU's first two-time NWLL All-American after scoring 71 goals and totaling 83 points in just 15 games to lead the nation in

both categories.

Collins joined Shaver on the NWLL All-American Team and was also named WHAC Newcomer of the Year and NWLL Rookie of the Year after finishing second in the nation in goals (64), third in points (80), and ninth in assists (16).

Kalo was named to the All-American Second Team after ranking first in the country in draw controls won (86) and groundballs (76). Offensively, Kalo ranked ninth in goals (51) and tenth in points (62).

Freshman midfielder Isabelle Vickers earned WHAC All-Conference Honorable Mention honors with 29 goals and 11 assists.

Earning All-Academic honors were junior Kelly Copeland, sophomore Alyse Finley, senior Christina Nagle, sophomore Janie Roberts, and Shaver. Sophomore Paige Holcomb was named to the WHAC Champions of Character Team.

### Men's Lacrosse

The men's lacrosse team, which was launched in 2012, had a 5–6 record in the 2014–15 season with three victories coming on the road.

Sophomore attacker Tim Popp led the Blue Devils with 27 goals and 24 assists to average 4.6 points per game. He was second in the conference in total points and in the top 10 in all scoring categories.

Freshman midfielder Frank Badalamenti, who won 63 percent of his face-offs, had seven goals and six assists.

Popp and Badalamenti were named to the WHAC Honorable Mention team. The Central Collegiate Lacrosse Association named Badalamenti to the All-CCLA third team, while Popp and sophomore midfielder Gabe O'Neil earned All-CCLA Honorable Mention honors.

O'Neil was named to the WHAC Champions of Character Team.

### Tennis

In Lawrence Tech's inaugural season for tennis, the men's team had seven victories and the women's tennis team had one victory despite not being able to field a full team in competition.

Freshman Vincent Colarossi earned WHAC All-Conference Honorable Mention honors with a 6–9 record on the top singles court. Junior Sergio Lopez also earned a conference honorable mention with his 11–2 singles record.

Freshman Carolyn McCullen also earned WHAC All-Conference Honorable Mention honors with an 8–5 record on the top singles court.

Colarossi and freshman Missy Coolsaet were named to the Champions of Character Team. Head Coach Steve Behmlander was named Champions of Character Coach for both men's and women's tennis.

### Golf

Head Coach Josh Heiple kicked off LTU's new golf program with three tournament wins for the women's team and one for the men's team during the 2014–15 season.

The Lady Blue Devils finished third in the WHAC tournament and finished in the top three 10 times during the season.

The men's team placed in the top five five times, including a fourth-place finish in the WHAC tournament.

Freshman Josh Dirlam earned First Team All-WHAC honors, while freshman Alejandra Farias received an All-WHAC honorable mention.

□BB



*The women's golf team finished first on both days of the tournament played at Stonehedge Golf Club in South Augusta, Michigan, in April. From left to right are Ana Magana, Dori Watts, Mercela Benavides, Coach Josh Heiple, Liz Furniss, and Alejandra Farias.*



# Leaping to Solutions

Inventor's greatest hits include the laser bar code scanner and remote keyless door locks



Inventor Thomas Edison once said that success is 10 percent inspiration and 90 percent perspiration, but Ronald Knockart, BSEE'63, doesn't think that's the modern formula for inventing new products.

"I would say it's more like 30-70," he said. "First you have to have the spark of an idea, and then you have to follow through on the feasibility and the development process. Along the way the product developer has to get management buy-in and the first big customer that will justify the investment of time and money."

Knockart knows whereof he speaks. He is the inventor of the laser scanning code reader and the father of the wireless, radio frequency (RF) door-locking system for automobiles. The first has transformed almost every aspect of commerce from manufacturing to retail, while the second is in the pocket of almost everyone who drives a car. He has developed several other breakthrough products during a long career in product development that isn't over yet.

In April, Knockart was inducted in LTU's College of Engineering Hall of Fame, along with five other illustrious alumni. (See story on page 8.)

Knockart's personal formula for success also included rock-solid preparation. His began at Lawrence Tech, which he attended while working to pay for tuition. "One of the things that I really liked about Lawrence Tech was that the professors in my field of electronics had real and pertinent engineering experience," he said.

He was interested in product development, so his next step was to get his own firsthand experience. "I wasn't interested in finding where I could make the most money. I wanted to put myself in a position where I could rapidly learn about electronics systems development, new technologies, and advanced product development," he said.

So he took a position as an electronics circuit design engineer at Cadillac Gage, a division of Ex-Cell-O Corp., working on the development of the first stabilization control system for cannons mounted on Army tanks. It was a breakthrough that allowed tanks to accurately hit targets while in motion. Knockart moved on when the system went into production.

Knockart also continued his education by making it part of his work routine to look at new technologies as they emerged. "One of the engineering magazines I got every month in the early '70s called lasers a solution looking for a problem. In other words, it probably wasn't going to amount to anything," he said. "But it is new technologies like lasers, integrated circuits, and sensors that make it possible to develop totally new products or redesign existing products that are faster, smaller, and lower cost."

His next employer, Bendix Corp., had built its own mini-computer at a time when only main frames were produced. To stay on top of that emerging field, he took courses at Wayne State University and learned about Boolean logic while earning a master's degree in electrical engineering.

One of his early assignments at Bendix was development

*In this photo taken in 1999, Ron Knockart demonstrates a prototype of a product he helped develop for Siemens Automotive that provided driving directions.*



*“There's nothing like working for yourself.”*

of a 3-D mapping system used for selecting landing sites for all Apollo moon missions except the first. Bendix had already developed a stereo plotter used to convert photographs taken on U-2 surveillance missions into contour and profile maps. As a specialist in control systems, Knockart was given the job of creating the interface that allowed the digital computer to communicate with the analog stereo plotter control systems.

### **Finding the right customer**

His groundbreaking work in laser scanning was initially a dead end. A railroad company came to Bendix looking for help with a new system to keep track of all its train cars. The white-light scanner they were testing was too expensive, cumbersome and unreliable. It took Knockart about six months to come up with a much simpler, less expensive and very reliable system using lasers and a prototype of the bar code. But the railroad had decided to do something else instead.

By this time, Bendix had created the Advanced Products Division to develop the market for products created in the research lab. Knockart transferred to this new division to develop new applications for the laser scanning bar code reader.

Cigarette maker Philip Morris turned out to be the first

customer for the new invention. The company needed a better way to keep track of its inventory and automate the manufacturing of different varieties of tobacco products. Bendix provided the scanners, and another contractor built out the system.

Bendix then added a number of engineers and technicians to create the next-generation laser scanning system using the latest new technology, “microprocessors.” The big breakthrough for Knockart and his invention came when Eastern Airlines needed a solution for its lost baggage problem. Making sure that baggage followed a passenger changing planes was a big challenge. An even bigger challenge was printing labels on the spot.

*At the Engineering Hall of Fame induction ceremony in April Ronald Knockart described how new technologies create opportunities to develop new products.*

“At that time there was no printer that could print individually coded labels in real time. So, we had to invent a special impact printer to do the job. I hired a talented mechanical engineer who developed 10 such printers for the project from concept to delivery in less than one year,” he said.

### **Benefits of brainstorming**

The wireless RF vehicle door locking system was another product that had a rough start. The idea emerged from one of the brainstorming sessions that Knockart held periodically with three or four other engineers on his staff who like himself were “intuiters,” people with the ability to analyze problems from multiple perspectives and make the leap to a new approach.

He found some money in his budget to develop the idea and then paid college students – including a few from Lawrence Tech – to do some of the initial research. Two concept prototypes were installed for a company salesman and Knockart’s wife, Gail.

Engineers at the car companies didn’t like the idea, and the company salesman was told in no uncertain terms that it would never happen. But it was a big hit in the supermarket parking lot. “People came up to my wife and asked where they could get one,” he recalled.

He finally found an automotive customer when Buick was seeking new features for a major redesign for the 1985 Regal. By the time keyless locking system went into production on the Regal, it was in the pipeline for several other GM models.

Ford became a customer after Knockart and his team found a way to incorporate the system’s antenna into the wiring that was already in the back window for defrosting – thereby eliminating the cost for a separate antenna.

### **Too many road blocks**

In the early 1990s Knockart put together a multi-company team that won a federal contract to develop the national system architecture for emerging “intelligent transportation systems,” now known as smart cars and smart roads.

At the same time, Knockart was leading the development of vehicle applications of GPS-based navigation systems with on-board map storage. These systems were expensive, so the market was slow to develop. Another brain storming session produced a number of ideas that would substantially reduce costs and create a number of patents – two other Lawrence Tech alumni, Harry Asher, BSPhy’85, and Robert Drury, BSEE’90, were involved in this project.

The key was to remove the on-board hardware that stored the maps and deliver the map information over a cellular network. The car companies liked the idea, but in 1995 there were no companies with the servers and technology that could deliver the content.

Knockart tried to make the case for Siemens to create a company for providing not only navigation directions, but also real-time traffic information, emergency service alerts, and concierge services for the driver – all over a cellular network. Sound familiar?

“I still have copies of the business plan for a multi-billion-



*Continued*



dollar business just for the delivery of those services,” Knockeart said. “My boss loved the idea, but the Siemens board of directors in Germany didn’t because they believed it would compete with their communications customers.”

## Out on his own

Knockeart retired from Siemens in 2002 in order to form his own company, 3PEC, LLC, with his daughter, Kelly Emmel, a prosecuting attorney, and her husband, John Emmel, a mechanical engineer. Knockeart assumed the role of chief financial officer. Another brain-storming session produced a unique engineering-based process that could be used to improve quality for vehicle manufacturers.

The new company got off to a good start and quickly grew to 180 employees when Mercedes contracted with 3PEC to apply its unique solution for eliminating bad parts in the “just in time” supply chain system. That success came to a screeching halt when the recession slowed auto production in 2009. The company had to spend \$2 million in an ultimately unsuccessful effort to keep the service alive.

Despite that bad experience, Knockeart now thinks that he should have started his own company at least 10 years earlier. The idea never even occurred to him at the time because he was well paid and working on challenging and rewarding projects. He advises young engineers with a knack for product development to look for a way to go out on their own.

“There’s nothing like working for yourself. You have total control of investments, what products to pursue, and no boss to report to. You will also work harder but with more satisfaction,” he said.

While he is currently in the process of closing down his company, Knockeart continues to think about new product ideas that will make a big difference in people’s lives. And when he finds one, he’ll come back to Lawrence Tech for some help.

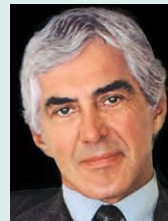
“I’ll have Lawrence Tech students do some of the research,” he said. “That always worked well for me in the past.” □EP

*At the College of Engineering Hall of Fame induction ceremony Dean Nabil Grace (left) poses with Ian Schonscheck; John DeLorean’s daughter, Sheila, and widow, Sally; James Ryan; David Wright; Ronald Knockeart; Aaron Rubel; and George Fadool.*

## SEVEN ALUMNI JOIN COLLEGE

In recognition of their outstanding contributions to their professions and society, seven alumni of Lawrence Technological University were inducted into the College of Engineering Hall of Fame on April 17.

### JOHN Z. DeLOREAN, BSIE ’48



The son of an immigrant who worked in a Ford factory, John Z. DeLorean went into the automotive industry with a degree in industrial engineering. Early in his career, he worked at Chrysler and the Packard Motor Car Company, where he was director of research and development before moving to General Motors.

He made his mark in the early 1960s by developing the Pontiac GTO, ushering in the “muscle car” era and earning LTU’s Alumni Achievement Award in 1962. He advanced to group executive vice president in charge of North American Operations at General Motors in 1972 after leading both GM’s Pontiac and Chevrolet divisions.

In 1973, he left GM to found the DeLorean Motor Car Company. In 1981 he debuted the DMC-12, a sleek, low-profile, stainless-steel-bodied sports car with gull-wing doors. The design captured the public’s imagination and nearly 9,000 were built. His namesake car received added fame as a time machine in the iconic “Back to the Future” movie trilogy.

A maverick accustomed to controversy, DeLorean was also a visionary who expressed concerns about the environment, the need to advance quality, provide customer value, and create aesthetically beautiful automobiles. He was a prolific engineer with some 200 patents.





## GEORGE J. FADOO, BSCE'81, PE



George J. Fadoo started his career in construction as a field engineer and quality control technician and earned a degree in civil engineering. He worked for a construction company with offices in Michigan and Colorado that was acquired by Skanska in 1999.

He held many positions with Skanska USA Building, Inc., including project engineer, estimator, project manager, and vice president, in addition to being responsible for national preconstruction services and information technology. He also served as co-chief operating officer with responsibility for the Midwest and Texas regions.

Since 2009, Fadoo has served as the chief ethics and compliance officer for Skanska USA Inc. He served as the leader of the Skanska team that developed an industry-leading Ethics Roadmap. The roadmap provides the means for a business to practically assess its ethical position through the lenses of culture and behavior.

## RONALD P. KNOCKEART, BSEE'63



In a career as an engineer and inventor spanning over 50 years, Ronald P. Knockeart has been awarded 17 patents and has developed several revolutionary products. He worked as an engineer in increasingly responsible positions at Cadillac Gage, Bendix Research Laboratories, Ford Motor Company, Gulf + Western Corporation, and Siemens Automotive Corp., where he also served as a board member. He co-founded the firm 3PEC, LLC.

A few years after he earned an electrical engineering degree, Knockeart led the computer-mapping project that identified 3D lunar landing sites for the Apollo moon missions.

In 1972, he invented the first laser-scanning bar-code reader, revolutionizing industry and commerce. He also developed the first automated airline baggage handling system employing laser scanners, first adopted by Eastern Airlines in 1973.

In 1983, he directed the development of the first wireless radio-frequency-based vehicle door-locking system. First used on the 1985 Buick Regal, this invention is now found on the key chains of most drivers. Between 1997 and 1999, he co-invented the first GPS-based wireless navigation and telematics system, part of the national effort to develop smart cars and highways.

Another innovation he helped develop was the first cannon stabilization system that allows combat tanks to accurately hit targets while moving, now fully deployed in the U.S. Army.

He received LTU's Alumni Achievement Award in 1999.

## AARON P. RUBEL, BSET'03

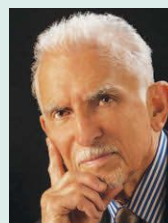


Aaron P. Rubel earned a degree in engineering technology while working full time in the automotive industry. He earned two patents and twice won the DaimlerChrysler Truck Cost Savings Award. He was the lead engineer of the 2007 Chrysler Sebring Rear Seat program.

Rubel made a successful transition to the aerospace industry, where he has received awards for driving process improvements, innovating methods, and mentoring other engineers.

He is now the engineering lead for cabin and cargo standard parts across all Airbus global passenger aircraft and for cabin flammability certification for Airbus Americas. He also serves as the intellectual property liaison between the Mobile, Alabama, location of Airbus Americas Engineering and the global corporate intellectual property office.

## JAMES P. RYAN, BSArE'66



After earning a degree in architectural engineering, James P. Ryan developed a national reputation as an architect and founded JPRA Architects, which became a leader in retail design and in the evolution of "social hubs" for shopping, dining, and entertainment. JPRA's signature projects include the Somerset Collection in Troy, the Mall at Millenia in Orlando, Florida, and The Gardens in Palm Beach Gardens, Florida.

Offering a full range of services, including planning, architecture, interior design, and environmental graphics, JPRA Architects is registered in 21 states and also works in Canada, South America, England, and the United Arab Emirates.

Ryan retired in 2008 after more than 30 years and remains active in the profession. During his career, he lectured at schools, universities, and conferences and wrote articles on the architect's role in retail design. In 2012, Ryan received the AIA's Hastings Award in recognition of his distinguished service to the architectural profession.

He received LTU's Alumni Achievement Award in 1997.

## IAN W. SCHONSHECK, ABCT'75, BSCE'79, PE



Six years after earning a degree in civil engineering, Ian W. Schonsheck formed Schonsheck, Inc., a design, construction, and land development company that specializes in industrial and commercial buildings, expansions, and renovations. The company has grown to 50 employees with more than \$50 million in sales. At one point, he managed a real estate portfolio of three million square feet.

In 1999, Schonsheck transferred ownership of the company to his employees through an Employee Stock Ownership Plan and became chief executive officer. He helped to diversify the firm by developing partnerships in the areas of healthcare, retail, office building, education, municipalities, self-storage, warehousing, and research and development.

He now serves on LTU's Civil Engineering Advisory Board. He is a licensed pilot.

## DAVID W. WRIGHT, BSME'86



David W. Wright is founder and chief executive officer of Wi, Inc., a contract medical device engineering, design, and manufacturing company. An inventor and entrepreneur, he holds more than 60 U.S. patents and has several more pending.

He had to overcome some learning challenges and attended several community colleges before coming to LTU where he earned his bachelor's degree in mechanical engineering.

Wright invented his first neurosurgical device in 1978 at the age of 20 while employed as a draftsman in the automotive industry. He spent 10 years in machine tool design and manufacturing automation for consumer durable products before moving to the medical field.

Wright worked with medical device companies Medtronic Cardiac Surgery, 3M Cardiovascular, and Gelman Sciences in product development and management before establishing Wi, Inc., in 2001. Located in Englewood, Colorado, the firm specializes in microfluidics, in vitro diagnostics, extracorporeal circuits, and organ transport technology.

In 2003, one of Wi's signature products, the Organ Recovery LifePort Kidney Transporter, was named the "Best of What's New" by *Popular Science*. Another award-winning product is the XVIVO Organ Perfusion System.

## Lawrence Tech a ‘superstar’ in value-added Brookings study

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

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

The new report encompasses more data sources and covers many more of the over 6,100 two- and four-year colleges than the college rankings from *U.S. News & World Report*. It seeks to take into account student profiles and their majors when comparing the career outcomes of alumni from different colleges. The yardstick becomes the value-added by a college in comparison to its peer group.

The Brookings study notes that the five quality factors strongly associated with more successful economic outcomes for alumni are curriculum value, alumni skills, STEM (science, technology, engineering and mathematics) orientation, completion rates, and student aid.

“The college value-added measures developed in this report more accurately predict alumni economic outcomes for students with similar characteristics,” concluded the authors of the Brookings Institution study.

The study found that LTU added 18 percent 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. The study found that alumni skills, the share of graduates majoring in STEM fields, and

curriculum value strongly predict a college’s value added in preparing its graduates for well-paying occupations.

“The Brookings Institution study is further validation of the

rigor and focus of LTU’s academic programs, the dedication of our faculty, and the high motivation and success of our alumni,” said Lawrence Tech President Virinder Moudgil. □EP

## LTU wins national award for grounds management excellence

Lawrence Technological University has won an award for exceptional grounds maintenance in the Urban University Grounds category from the Professional Grounds Management Society.

The award was accepted by Matt Maracle, assistant director of campus facilities at LTU, who is responsible for grounds maintenance. He has 25 years of facilities management experience, including 18 years with ARAMARK, the last 15 of which have been at LTU. ARAMARK provides contracted maintenance, facilities, and food services to the University.

Grounds maintenance became a higher priority at LTU following the completion of the campus quadrangle in 2006. At about the same time Keith Kama arrived at LTU to take on the role of groundskeeper. Last year Kama completed his certification as a master gardener.

Maracle has worked with the Office of Admissions to pay particular attention to the route of the campus tour for prospective students.

“We realize that these students form their impression of the University within the first few

minutes they are on campus, and a lot of that has to do with the appearance of the grounds,” Maracle said.

Innovative techniques have been employed to maintain healthy lawns on campus. Some grass or mulch areas have been replaced with perennial flowers that are easier to maintain and add visual appeal. The grounds crew also has worked with Professor Donald Carpenter to create grow zones and rain gardens.

Maracle said the key to winning the award has been his crew of six plus a mechanic, who like himself are employed by ARAMARK. “The staff is dedicated to paying attention to the details, and I’m a lucky guy to be their manager,” he said. □EP



*Thanks to outstanding maintenance, Lawrence Tech’s quadrangle helps create a positive first impression for visitors to the campus.*



## Forbes gives Commencement address

*Steve Forbes, chairman and editor-in-chief of Forbes Media, was the 2015 Commencement speaker and received the Doctor of Business Administration honoris causa. (See back cover)*



decided the original plans for the building didn't meet the client's goals and made major changes. The team also went beyond the Leadership in Energy and Environmental Design (LEED) standards and worked with the more rigorous standards of the Living Building Challenge, an international sustainable building certification program.

The team was successful in the integration category of the competition because all of the engineering systems were planned in tandem with the overall design of the building. The team developed a modular structure of 20-by-70-foot bays, with five-foot transitional channels and shafts that provided space for all the mechanical, electrical, and structural systems.

The team also put a lot of work into the presentation, especially on the graphics that demonstrated the project with minimal verbiage. "The images were almost self-explanatory, so that viewers could see what we were going to say," Israel said.

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

## Students win three top awards at national architectural engineering competition

Lawrence Tech's architectural engineering team took first place in three categories at the annual Architectural Engineering Institute (AEI) Student Design Competition held in March in Milwaukee. AEI is part of the American Society of Civil Engineers.

The competition has five categories and Lawrence Tech placed first in the required category of building systems integration and also placed first in the optional categories of mechanical systems design and structural systems design.

The seven LTU students – Hayan Awde, Andrea Bedi, Diana Brazier, Steven Gunther, Israel Ortiz, Thomas Oziem, and Rebecca Tritt – entered the competition as part of their capstone project for a master's degree in architectural engineering.

"This accomplishment further validates the depth and breadth of knowledge acquired by our students," said Filza Walters, director of the architectural engineering

program in LTU's College of Engineering.

The task was to design a 50,000-square-foot vertical farm building in Milwaukee for Growing Power, a company founded by

MacArthur Genius Award grantee Will Allen, who is recognized as a leading practitioner of urban farming.

After visiting the site and reading Allen's books, the team



*Accepting one of LTU's three first-place awards at the Architectural Engineering Institute annual Student Design competition are (left to right in back) Israel Ortiz, Hayan Awde, Steven Gunther, and Thomas Oziem. In the front are Rebecca Tritt, Diana Brazier, and Andrea Bedi.*

## Student spreads the word about STEM education

Architectural engineering major Nada Saghir has made it a personal mission to let elementary though high school students – especially girls – know about career opportunities in engineering and the importance of pursuing STEM, which stands for science, technology, engineering and mathematics.

As a young girl, Saghir enjoyed science and math, but was under the impression that the only career paths open to her were related to health care. “I didn’t learn about the engineering field until I was a sophomore in high school,” she said. “I decided I didn’t want other students like me to miss out on all those years of STEM.”

She has started her own program, “Little Engineers, Big Minds,” aimed at students before they reach high school. She started at Becker Elementary School in Dearborn. When she noticed that her program attracted mostly

boys, she introduced the program to the Girl Scout troop she had been a member of in Dearborn.

The high point for the scouts was a visit to Lawrence Tech’s campus in April. They learned how

a motor works and then built a small working model. Associate Professor Scott Schneider and Senior Lecturer James Woodworth of the Department of Natural Sciences led the demonstration, and they were joined by Shelby McPherson, Miss Lawrence Tech for 2014.

Saghir bases her presentations on the curriculum devel-

oped by Associate Professor Andrew Gerhart of the A. Leon Linton Department of Mechanical Engineering for a summer camp she attended last year. The camp was sponsored by the Kern Entrepreneurial Engineering Network, and The Henry Ford in Dearborn was a partner.

Saghir hopes to offer her program to seventh- and eighth-graders beginning next fall. Eventually she would like to see her program serve as a prototype for similar efforts at other schools, and she has gained the support of Lego Education and Goldieblox, a company that creates games for girls that develop an interest in engineering and problem-solving.

“These young students are the future of our country. We are going to rely on them for STEM, but too many are opting out,” Saghir said. □EP



**LTU junior Nada Saghir, standing at right next to Associate Professor Scott Schneider, brought Girl Scout Troop #75372 of Dearborn to campus in April to gain exposure to engineering and problem-solving.**

## LTU students finish fifth at World Robot Olympiad

LTU robotics engineering students Phil Bigos and John Marnon have found that studying robotics engineering is a great way to see the world.

In the fall they represented the United States and traveled to the Olympic Village in Sochi, Russia, where they finished fifth in the college division of the World Robot Olympiad (WRO). Teams from 50 countries competed this year, including 22 teams in the college division that was won by Taiwan.

In addition to an impressive showing, the two LTU students learned a lot about the world and met fellow robotics enthusiasts from almost every continent. That

was especially true for the outgoing Bigos, who was easily recognizable in his American flag cape.

Many participants from other countries had their photos taken with Bigos, and more than 200 signed his cape. “Phil was the most popular guy there,” Marnon said.

In May, Bigos and Marnon became the first two graduates of LTU’s Bachelor of Science in Robotics Engineering program.

**Robotics engineering students John Marnon (left) and Phil Bigos display the banner that acknowledged some of the sponsors for their trip to Sochi, Russia.**

This is the first year that the United States competed at WRO. LTU Professor of Computer Science CJ Chung coordinated

seven state tournaments and the national competition, held at LTU, for selecting the teams to represent the United States. Chung went to Sochi as the WRO-USA national organizer and also as the coach of the LTU team. □EP





## LTU co-hosts conference on architecture for underserved communities

Lawrence Technological University teamed up with Design Corps to host the 15th Structures for Inclusion (SFI) Conference, which was held in April at the Carr Center in Detroit. The purpose of the SFI Conference has been to bring together and share the best

ideas and practices that are reaching those currently unserved by architecture.

“Resilience of Mind, Body, and Spirit” was the theme of SFI 15. Projects were from Detroit and other cities where designers and planners seek to be more

inclusive.

“Bringing this conference to Detroit this year was quite fitting given Detroit’s position at an historic crossroads,” said Lawrence Tech Professor Joongsub Kim, one of the conference organizers.

The host committee also included Amy Green Deines, associate dean of LTU’s College of Architecture and Design; Scott Shall, chair of LTU’s Department of Architecture; and Associate Professor Edward Orłowski.

Susan Szenasy, the publisher and editor-in-chief of *Metropolis*,

the award-winning New York City-based magazine of architecture and design, gave the conference keynote address on the Lawrence Tech campus.

Design Corps is a nonprofit advocacy group founded in 1991 to create positive change in traditionally underserved communities by using design, advocacy, and education to help them shape their environment and address their social, economic, and environmental challenges. It also provides design and planning services through its SEED Network.

Each year Design Corps, in association with a local non-profit organization or school, hosts the SFI Conference to focus attention on design practitioners and projects that are helping to overcome longstanding challenges in under-resourced communities. The SFI Conferences showcase design efforts that reach diverse clientele. Attendees learn about pathways to pursue alternative community-based work as well as evidence of the impact of that work. □EP



*Attending the April 11 SFI reception in the UTLC gallery were (left to right) Glen LeRoy, dean of LTU’s College of Architecture and Design; LTU Professor Joongsub Kim, one of the conference organizers; keynote speaker Susan Szenasy, the publisher and editor-in-chief of *Metropolis* magazine; and Bryan Bell, executive director of Design Corps.*

## Three inducted into College of Management Hall of Fame

The College of Management at Lawrence Technological University has inducted three new members into its Hall of Fame – a former professor, the late Barbara Kouskoulas, and two business executives who have supported the University, Nancy Gougarty and Hamid Servati.

A devoted teacher and mentor, Kouskoulas taught finance and economics at LTU from 1991 until her retirement as associate professor emerita in 2007. She then returned to school for a nursing degree to pursue a new career as a midwife. She passed away in 2014.

“She was known to students and faculty alike for her kindness, strength, and patience,”

*LTU College of Management Dean Bahman Mirshab (left) and President Virinder Moudgil (right) presented Hall of Fame awards to Yanni Kouskoulas (accepting for his mother, the late Barbara Kouskoulas), Nancy Gougarty, and Hamid Servati.*

said Professor Jackie Stavros, who spoke on her behalf at the induction ceremony, along with Associate Professor Srikant Raghavan.

Servati and Gougarty were honored in part for the donation of five Ford trucks to the University by Westport, a natural-gas engine and vehicle engineering company based in Vancouver, British Columbia. The gift included a bi-fuel Ford F-250 that runs on either gasoline or compressed



natural gas, which can be used for student research in LTU’s alternative fuels program. Westport also donated another F-250, two F-150s, and an F-450, which are used for campus maintenance.

Gougarty is president and chief

operating officer of Westport and Servati is president of ServoTech Industries and also serves on the College of Management’s advisory board. □EP

## Students salvage old-growth lumber for future use

This spring a team of six Lawrence Tech students stepped outside the classroom to learn practical lessons about building construction and vintage building materials when they deconstructed a vacant house in Detroit.

The project was made possible by a \$25,000 Ford College Community Challenge (Ford C3) grant from the Ford Motor Company Fund. The team partnered with RecoveryPark on Detroit's east side and Architectural Salvage Warehouse Detroit (ASWD).

"Pioneer Material Renewal" is an extracurricular project to deconstruct a dilapidated Detroit building, assess the salvaged material, conduct tests for viable re-use, and design a new building constructed with the salvaged materials.

The house on Detroit's east side was built in 1888 with pine lumber that came from Michigan first-harvest timber.

After several months of preparations, the students deconstructed the house and salvaged the materials over spring break and the following weekend – 12 days in all. They recovered five vintage silver dollars hidden in the rafters, some historic newspapers, and hundreds of bricks that can be reused. But the real treasure trove was the lumber.

The antique 2x4 lumber goes for \$2 a linear foot, compared to 50 cents for modern lumber. The 2x6 floor joists were 24 feet long, running the entire width of the house. Other structural and aesthetic elements, specifically one-inch-thick sheathing boards, were as large as 18 inches wide and 14 feet long.

The initial plan was to get a demolition permit and remove the entire structure, but the students concluded that they could avoid a delay by seeking an alteration building permit to construct a tool

shed over the existing twelve-by-nine-foot cellar under one part of the house. Since the shed will be used for an urban garden that is planned nearby, keeping the building's water service, which would have been disconnected in the demolition process, turned out to be a big plus.

The permit process was completed in one day. "There were great people in the city who made it work for us, and we learned how the process works for city permits and zoning," said architecture student Meaghan Markiewicz.

Since there aren't universally recognized standards for recer-

tifying reclaimed wood for construction, part of the project was verifying the strength of the old lumber. Architectural engineering student Mike Paciero used testing equipment in LTU's Center for Innovative Materials Research to determine that the old lumber has maintained its structural integrity despite years of service and remains at least as strong as new lumber.

Paciero found himself referring back to the civil engineering courses in structures that are part of the architectural engineering curriculum at LTU. "Taking what I learned in those classes and

applying it to actual materials has given me a better understanding of structures and how they work," he said.

Associate Professor Ralph Nelson of LTU's Department of Architecture is the faculty advisor for the project, and Assistant Professor Mena Bebawy of the Department of Civil and Architectural Engineering provided guidance for the structural tests and calculations.

Over the summer months the students will take down the floor of the main house and clear the lot. There are plans to seek another grant to continue the research on salvaging materials from old buildings to be used in new structures. □EP



*Students who worked on the deconstruction of a house on Detroit's east side are (left to right) Mike Paciero, Charlie Harris, Meaghan Markiewicz, James Sharp, and Brandon Olsen. Missing from the photo is Drew Bradford.*

## International traditions embraced at LTU

*Lawrence Tech has a strong contingent of international students who enthusiastically celebrate some of the festivals they are missing in their home countries. At right, LTU students celebrate Holi, an Indian festival where participants traditionally cover each other in colored powders as they welcome the arrival of spring.*





## Mid-century automotive design exhibit draws praise

“American Dreaming: Detroit’s Golden Age of Automotive Design,” the first comprehensive exhibition to offer a look inside the design studios of Detroit’s automakers from 1946 to 1973, was on display in the gallery of LTU’s University Technology and Learning Center in April and May.

Many former auto designers lent their designs to the exhibition, and several participated in an April 29 panel discussion moderated by Dean Glen LeRoy of LTU’s College of Architecture and Design.

The exhibition was organized and curated by Robert Edwards and Greg Salustro, who are also

in the process of producing a feature-length documentary film on the subject. “We want to shine a bright light into the world of Detroit’s automotive design studios and recognize the artists of this golden age of car design,”

Edwards explained.

In the post-World War II era Detroit-based automakers hired university-trained artists who were given the opportunity to dramatically change car design. This exhibition was particularly remarkable

because the automakers mandated the destruction of preliminary sketches when the final designs were selected for production. The exhibition gathered many of the rare surviving examples.

LTU Assistant Professor Deirdre Hennebury helped organize the exhibit at LTU. □EP



*LTU’s Keith Nagara (left), director of LTU’s transportation and industrial design programs, and Deirdre Hennebury (right) join the curators of the “American Dreaming” exhibition, Robert Edwards and Greg Salustro, at the opening reception.*

## LTU students win top awards in cybersecurity competition

*LTU students Michael Talamonti (left) and Suvro Sudip finished first and second, respectively, in the ISACA cybersecurity competition held at Lawrence Tech in March. ISACA is an international association of professionals in IT governance, which includes cybersecurity, and the event was organized by College of Management Assistant Professor Anne Kohnke, the ISACA academic advocate at LTU. The Detroit chapter, which has more than 900 members, awarded \$8,000 in scholarship money in its second annual competition.*



## On display at the auto show in Detroit

*Every year the Lawrence Tech exhibit at the North American International Auto Show features student work from LTU’s bachelor’s degree program in transportation design. SAE racing vehicles are also displayed, and in the photo above student Nicholas Pakledinaz answers questions about LTU’s Formula Hybrid vehicle.*

## Lawrence Tech named to national list of 'green' colleges

Lawrence Technological University is one of the most environmentally responsible colleges in the country, according to "The Princeton Review Guide to 353 Green Colleges" released in conjunction with Earth Day.

This sixth annual "green guide" is based on data from the company's 2014 survey of hundreds of four-year colleges concerning their commitment to the environment and sustainability. Responses from a student survey were also factored in.

In the past the Princeton Review has noted that LTU "boasts a commitment to sustainability spanning new buildings and construction, academic programs, applied research, and campus operations."

Geothermal wells and a vegetated roof are just two of the



impressive features of LTU's A. Alfred Taubman Student Services Center, a unique green building that serves as a living laboratory for sustainability education of architects and engineers.

Those two features of the Taubman Center are on LTU's Low Impact Development Trail that showcases the various stormwater management techniques put into practice around the campus.

LTU's inclusion in the prestigious national guide to "green" colleges confirms a long-term commitment to sustainability that has been demonstrated in many areas of the University's operations and academic curricula, according to Joseph Veryser, LTU's campus architect.

"Our students see this approach to architecture and engineering as essential for the future

of the planet. If anything, our students have been pushing their professors and the administration to pursue even higher standards,"

Veryser said. "Both faculty and students aspire to be leaders and innovators in sustainable practices." □EP

## ESD award winners



*LTU Associate Professor Janice Means (center) and Professor CJ Chung (right) were both honored at the annual Gold Awards banquet held by the Engineering Society of Detroit in March. Means won the Ann O. Fletcher Distinguished Service Award from the ESD Affiliate Council, and Chung won the Outstanding Member Award from the Southeast Michigan Section of the Institute of Electrical and Electronics Engineers. Joining them at the banquet were (from left in the front) College of Architecture and Design Associate Dean Amy Deines, LTU President Virinder Moudgil, and Provost Maria Vaz. In the back are Civil Engineering Professor Donald Carpenter and Associate Professor Scott Shall, chair of the Department of Architecture.*

## Two LTU students win GM design competition



*LTU transportation design sophomores Andrew Hannawa (left) and Dylan Schmidt won summer internships at the GM Tech Center in the 2014 CDN-GM Interactive Design Competition sponsored by General Motors and Car Design News. The students both won in the digital sculpting category and were among the seven winners announced during the North American International Auto Show in Detroit. There were more than 1,000 entries in the competition.*



## Recent Lawrence Tech grad plays key role in new Ford GT design

Just two years out of college, Ford Motor Company designer Colin Bonathan, BSTD'13, finds himself basking in the glow surrounding what is arguably the hottest car introduced at this year's North American International Auto Show, the Ford GT.

Not only is he a member of the four-person exterior design team for what promises to be an iconic "supercar," he also came up with the design concept – featuring flying buttresses in the rear – that the team decided to use.

"This is my second year on the job, and it's amazing to be given this opportunity this early in my career, or even at all," Bonathan said. "I was in the right place at the right time."

Bonathan was obviously ready to take advantage of a great oppor-

tunity as soon as he graduated with a degree in transportation design.

"Lawrence Tech works hard to prepare its graduates to 'hit the ground running' when they get their first jobs, but I have to say that Colin has taken that to a whole new level," said Keith Nagara, the director of Lawrence Tech's transportation design program. "This is the opportunity of a lifetime, and Colin delivered."

Once the design concept was selected, the design team went to work on refining the details and making many changes needed to prepare the carbon-fiber body for production. The team still has many tasks to complete prior to the car's introduction in late 2016.

Bonathan doesn't know what is involved in the final stages of

design because it's a process he has never been through before. "This continues to be a complete learning experience for me," he said.

Bonathan grew up in Wayne, and graduated from Detroit Catholic Central High School in Novi.

The Ford GT was a racing icon in the 1960s and was reintroduced in 2005 with a price tag

of \$140,000. The newest model will have a 3.5 liter V-6 Ecoboost engine with more than 600 horsepower.

If the Auto Show buzz is any indication, demand for this limited production vehicle will be high. In fact, Detroit Tigers pitcher Justin Verlander has already announced that he will be an eager buyer.

□EP

## LTU students learn about automotive careers

In February, the Detroit Regional Chamber and MICHauto came to LTU to inform college students about the opportunities for engineers in the auto industry. The program included a panel discussion about what it's like to work in the auto industry.

The panelists were LTU alumni Nate Knaebel, BSME'08, of Lacks Enterprises; Matthew Haggard, BSME'14, of American Axle & Manufacturing; and Brittany Forgue, BSME'08, of Nissan. The moderator was MICHauto Director Rob Luce.



*During the 2015 North American International Auto Show Keith Nagara (left), the director of LTU's transportation design program, joined recent graduate Colin Bonathan in front of the Ford GT, which Bonathan helped design.*

## Winey oversees completion of world's second tallest building

The completion of the \$3 billion Shanghai Tower in China in the next few months certainly qualifies as the crowning achievement of the career of Dan Winey, BSAR'74, BAR'75. He has overseen the project from start to finish in his role as regional managing principal for the U.S. Northwest and Asia Pacific offices of Gensler, the design firm for the second tallest building in the world.

The 2,037-foot-tall tower was designed by a team of Gensler architects based in Shanghai. The building has 4.4 million square feet of space on 121 floors and another 1.8 million square feet on

five floors and additional levels below grade.

Gensler has set the bar higher for "supertall" buildings in the areas of design, functionality, and sustainability. Shanghai Tower is designed as a vertical urban environment with 21 public gathering spaces called sky gardens with atriums as high as 14 stories. By locating shops, restaurants, and urban amenities on these atrium

*Shanghai Tower is China's tallest building and the second-tallest building in the world. It is the new centerpiece of Shanghai's Lujiazui Finance and Trade Zone.*



PHOTO COURTESY OF GENSLER

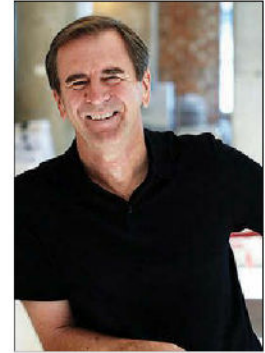
levels, the tower provides a new dimension for living and working in supertall towers.

A key element of the design is a transparent second skin that insulates the building, reducing energy use for heating, cooling, and lighting. Gensler used parametric software to design the curtain wall that has 20,589 panels in more than 7,000 unique shapes.

Gensler's design team utilized three design features – asymmetrical form that twists 120 degrees, tapering profile and rounded corners – to enable the building to withstand typhoon-force winds. This strategy reduced the wind loads by 24 percent, allowing a lighter structure that saved \$58 million in construction costs.

Another method for guarding against the harmful effect of high winds is a 1,200-ton weight above the 121st floor that moves in the opposite direction to the wind. Otherwise the building could move as much as five feet. "It's an amazing piece of engineering," Winey told National Public Radio in May. "If you don't have something like this in a building like this, you can actually get nauseous."

The building is designed to obtain LEED Gold certification. The architects incorporated 43



Dan Winey

sustainable technologies to reduce the building's energy consumption by 21 percent. The building has state-of-the-art water conservation practices, high-efficiency building systems, and a natural-gas generating system for parts of the tower. Exterior lighting is powered by 270 wind turbines built into the facade.

Winey directs the Gensler design practices in Bangalore, Beijing, Hong Kong, Oakland, San Francisco, San Jose, Seattle, Seoul, Shanghai, Singapore, Sydney and Tokyo. He also serves on Gensler's Management Committee and as secretary of Gensler's board of directors.

He received LTU's Alumni Achievement Award in 2009 and Distinguished Architecture Alumni Award in 2010. □EP

### Follow us on social media

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



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@LTUalumni or [twitter.com/LTUalumni](https://twitter.com/LTUalumni)



## Longtime trustee receives LTU's Alumni Achievement Award

John G. Petty, BSME'65, has been on stage for many Lawrence Tech commencement ceremonies, but this year he stepped out front to accept LTU's prestigious Alumni Achievement Award.

Petty, who has served on LTU's Board of Trustees since 1993, has over 40 years of engineering and management experience and a distinguished history of service to his community and profession.

He worked for General Dynamics Land Systems (GDLS) in Sterling Heights for 30 years, retiring in 2004. He advanced to positions of increasing responsibility, including powertrain department manager, chief engineer of chassis systems, program manager, competition advocate director, and director of the Fox Nuclear, Biological and Chemical Reconnaissance System (NBCRS) Vehicle Program.

The Fox NBCRS is a 19-ton vehicle with sensors to detect nuclear, biological, and chemical contamination. Its three-person

crew is protected by an over-pressure system that draws air in through special filters that prevent contaminants from entering the vehicle. A number of these vehicles were used during the Iraq War to help protect soldiers in the event nuclear, biological, or chemical agents were used.

Petty was concurrently the GDLS business ethics program director for all the company's locations worldwide and was named one of its top 100 managers among the firm's 100,000 employees.

In 1995, Mr. Petty was presented the U.S. Army Distinguished Service Award for outstanding leadership of the Fox NBCRS Vehicle Program in developing, fielding, and maintaining systems in support of U.S. Army soldiers.

Petty has been a longtime supporter of the Engineering Society of Detroit (ESD), serving as president and receiving numerous awards from one of the world's oldest and largest technological



*As the recipient of the Alumni Achievement Award, John Petty, a longtime member of the LTU Board of Trustees, had the opportunity to offer some advice to graduates at Commencement.*

societies. He is also a director of the Rackham Engineering Foundation that was established to support ESD over 70 years ago.

Petty is active in his church, Berean Chapel of Detroit, where he serves as deacon and superin-

tendent of the Sunday School, and is a director of the Circle Y Ranch, a Christian summer camp for youth located in Bangor, Michigan. He also serves on the Southfield Zoning Board of Appeals. □EP

## Jubilee Society veterans



*These graduates from the early 1950s have been attending the Jubilee Society brunch for more than 10 years. From left to right are Gerald Pochert, BSBA'51; Donald Bamford, BSME'52; Walter McCoskey, BSME'51; James Clark, BSME'51; J. Ralph Chamness, BSME'51; Victor Kochajda, BSEE'52; Jerome Sobieraj, BSIE'52; Gerald Larson, BS Ae'53; and Benjamin Monast, BSIE'50.*

## Albion city manager focuses on customer service

Sheryl Mitchell, DBA'14, hit the ground running when she was named to the post of city manager in Albion last fall. Just months into the job, she already has initiated new and creative programs and events designed to improve the quality of life in the southwest Michigan community of 8,600 people.

"My approach is that customer service encompasses not only the expected external clients – residents, businesses, and local organizations – but the internal clients, other departments, elected leaders, boards and commissions, as well," she said. "The focus is on expanding communications and building a culture of inclusion, trust, and respect."

To that end, Mitchell has instituted an 'Employee of the Month' program to recognize outstanding customer service and launched a Facebook page for announcements, a monthly electronic newsletter, and a YouTube rebroadcast of City Council meetings. In April, Town Hall meetings were held in

each precinct to provide information about city programs and services to residents. In May, the city celebrated its first "Albion Week," focusing on local businesses, arts, and culture.

"All of these initiatives have been tremendously successful and very well received by residents," she noted. "As a government organization, we cannot rely on the old model of expecting residents to come to city hall. As government leaders, we must be willing to take the initiative to reach out to residents."

Mitchell was appointed city manager in September after a five-month search. She previously had served 17 years as a senior analyst for the Oakland County Board of Commissioners. She began her municipal career working with the Detroit City Council. She was appointed to the Michigan Women's Commission by Gov. Jennifer Granholm and chaired the Parks and Recreation Commission in West Bloomfield.

Mitchell's career move came



**Sheryl Mitchell**

with both challenges and opportunities. "Some of the biggest challenges involved coming to a government organization where, due to recent retirements, a great deal of their institutional knowledge was not preserved or documented," she said. "The opportunity was that this created a platform for creating a new and more inclusive culture that was not limited by a 'that is the way we have always done it' mindset."

Her approach to government was reflected in the title of her dissertation at Lawrence Tech, "An Exploratory Study of Priority-Based Budgeting: Identification of Public Values and Public Priorities

through Citizen Engagement in Government Budgeting Decisions."

As she concluded her doctorate, Mitchell won the Ed Donley Distinguished Graduate Award for excellence in academic, community, and campus leadership. This year she was honored by the Women's Officials Network (WON) Foundation as a "Wonder Woman" in recognition of her civic and professional accomplishments.

"My ability to be a visionary leader and inspire others, especially girls and women, to achieve their full potential was nurtured by the exceptional faculty, such as Dr. Jacqueline Stavros, Dr. Anne Kohnke, Dr. Patty Castelli, and many others," she said. "I am eternally grateful for the support from the faculty and staff at Lawrence Tech and my colleagues who always challenged me to strive for excellence."

Mitchell also has a master's degree in public administration from Central Michigan University and a bachelor's degree in political science from the University of Michigan-Dearborn. □CWM

## Newest members of the Jubilee Society



*In April, these 1965 graduates of Lawrence Tech and the Detroit Institute of Technology were inducted into the Jubilee Society, an exclusive group of LTU and DIT alumni who graduated 50 or more years ago. From left to right are John Petty, BSME'65; Dennis Copenhaver, BSME'65; Stephen Roback, BSHu'65; Arthur Fischer, BSIM'65; Henry Murawski, BSIM'65; Robert Kaminski, BScvE'65; Paul White, BSIM'65; David Thomas, BAPolSci'65; and Robert Lowe, AMT'65.*



## Web designer likes to surprise his clients

As the winner of three major industry awards in 2014 and two more already this year, Jeffrey Huysentruyt, BFA'12, a graphic and web designer at Element5 Digital in Troy, knows precisely what he intends to achieve when he tackles a project.

"My personal challenge with every site is coming up with something different," he explained. "It may be a different style of navigation, new functionality, video background, or parallax. I try to do something on all my sites that I have never done on any of my previous sites."

Last year Huysentruyt notched two MarCom Awards for the Web designs he did for C.J. Barrymore's Entertainment, an indoor/outdoor amusement center in Clinton Township, and Walsh College in Troy; and a Davey award for Troy-based Random Socks. This year he has landed a Gold Communicator Award for Michigan State University's Spartan Fund site and a gold Hermes award for elements5digital.com. Not bad for someone who joined the firm in 2013.

"When I got the news that some of my sites had won international design awards, I was really excited. I knew that I had put a lot of work into each site's design, going back and forth with the clients, toying with copy, and putting in serious hours," Huysentruyt said.

At Lawrence Tech, a Thesis class helped Huysentruyt see the practical and realistic approaches to his designs. "You have to be able to think from the consumer or user perspective in order to be successful. That was emphasized, for me, in Thesis. I had to be able to think and design for someone other than myself, and Thesis helped get me in the right mindset."

For example, C.J. Barrymore's wanted a "website from the future" – and the finished product clearly reflects Huysentruyt's user-oriented design philosophy. He designed a site that uses live weather information to highlight the background video and information displayed on the home page. For example, if it's raining, the background video shows the



*Jeffrey Huysentruyt likes to juggle several new approaches each time he designs a website.*

arcade and bowling alley. If it's sunny and warm, the site adapts to show the outdoor bumper boats and go-karts.

With Random Socks, Huysentruyt had the freedom to do whatever he wanted with the company's site. Because it was an internal brand, he was in charge of everything from copy, colors, and custom-designed icons to the checkout process.

For Walsh College, Huysentruyt utilized the school's extended color palette, worked with his team to update the wireframe and site map, and did user testing, before even starting the design process.

"The biggest reward of my job right now is giving the design presentations," he said. "I like to see the client's huge grin as they experience my site design for the first time, pushing their boundar-

ies. It also gives me the opportunity to explain why I made the decisions I made during design. The big reveal comes when I start my presentations with their current site and flip over to the new site – it's usually quite the reaction from the clients."

Looking ahead, one of Huysentruyt's big career goals is to be a creative director. "Eventually, I would love to be an Imagineer with the Walt Disney World Company, designing guest experiences in the parks and resorts, as well as assist with their online/digital presence."

In the meantime, he'd also like to see some more awards in his trophy case. "Be on the lookout – I plan to win more!" □EP

## Campus Homecoming starts Sept. 28

Lawrence Tech's Homecoming 2015 will take place the week of Sept. 28. Events on campus include the annual "tailgating" tent for alumni on Saturday, Oct. 3.

Keep an eye on your inbox and mailbox for more information. Details will also be added at [www.ltu.edu/homecoming](http://www.ltu.edu/homecoming) as they become available.

## Restoring buildings in Detroit is more than a business

Amy Nicole Swift, BSIA'06, LEED-AP, founder and principal of Building Hugger L3C, a three-year-old historic preservation firm in Detroit, calls her clients "rock stars." They might use the same term to describe her.

"Every project is so special to me. The clients that are drawn to me are driven by the same nutty passions and 'despite the odds we will make this work' mantra. It's such a Detroit attitude," declared Swift as she ticked off a few her most recent projects in the city she loves.

Current clients include a developer who wants to turn an old warehouse into shop space for budding micro-manufacturing entrepreneurs; a community developer who is rehabilitating a burnt-out structure in a historic district because it's across the street from a property he owns; a nonprofit renovating a building through grassroots fund-raising to house its youth programming in a challenging neighborhood; and a slew of homeowners who "can't think of any other community they'd rather build a life in than Detroit."

That might be enough to keep anybody occupied, but Swift is also a professor of practice in the College of Architecture and Design at Lawrence Tech, where she teaches 20th Century Architecture and Integrated Design Studio labs focused on building tectonics, materials, and space.

"The school's theory and practice motto has always resonated with me and has been a major driver in my career development," she said. "I have always sought to find a balance in my work. As a professor, I am able to elevate the work of Building Hugger above the average design-build contracting operation by placing it in that larger compendium of architecture. Conversely, my work with Building Hugger helps my academic work

remain tactile and rely less on rhetoric."

Swift worked in corporate offices for several years in Chicago, San Francisco, and New York. "I had always dreamed of setting off on my own, but if I hadn't been laid off from my job in New York in 2011 and moved back to Michigan, I may have never taken the chance," she said.

She found that Detroit is full of enterprising design freelancers, which forced her to find a niche. She started out offering more traditional design services, but soon realized she needed to go beyond design and "roll up my sleeves and implement."

Last spring Swift took part in an historic-trades training program through the Michigan Historic Preservation Network so she could manage the scope of the window work on one of her own redevelopment projects, and from there things took off.

"Now 80 percent of my revenue is from window repair and restoration, which by any measure is a dying trade. As people reinvest in Detroit, there aren't enough skilled tradespeople to cover the work.

I am now on my fifth trainee as I staff up for the busy season," she said.

Swift views her role in the city's resurgence as threefold: providing skilled jobs to Detroiters, helping people reinvest in their homes and businesses, and restoring historic resources.

For Swift, entrepreneurship is more than just a business proposition. "To be an entrepreneur is a lifestyle choice. It's a path you choose because there is a passion burning so hot that you could never do anything else," she said. "To say I am fulfilled with my daily work is an understatement."

□CWM



Photo courtesy of Carhartt, Inc.

*Amy Swift arrives at work to clean up a blighted house in southwest Detroit. When the project is completed, the house and another on the same lot will be rented as duplexes at market rates.*

## College of Management Alumni Week



*LTU College of Management Dean Bahman Mirshab (left) poses with Eugene Gutt, BSIM'67, during the College of Management's third annual alumni week in March. Gutt was one of 15 alumni speakers who shared their educational and career experiences with students in 19 graduate and undergraduate classes. Alumni from Ford Motor Company also spoke and they brought along the Ford C-Max that was displayed in the Buell Management Building atrium. For information about next year's Alumni Week and how to get involved, visit [www.ltu.edu/management/alumni\\_week.asp](http://www.ltu.edu/management/alumni_week.asp).*



## Theory meets practice in cooperative relationships

Lawrence Tech's "theory and practice" model has led to many cooperative relationships with industry partners like Cadillac Products Automotive Co.

For the past few years Cadillac Products has aggressively recruited engineering students from Lawrence Tech and other universities to work as interns, explained Randall Behm, MBA'09, director of engineering at the Troy-based firm's Roseville plant.

"The interns we've hired have the opportunity to work on a variety of different projects in manufacturing and process engineering," he said. "They're involved in diverse activities such as managing projects, coordinating and running trials, evaluating and improving plant processes, troubleshooting current issues, conducting capability or time studies, writing procedures and specifications, learning and applying lean principles, and programming and optimizing robots."

The students are given hands-on experience and the tools needed to learn and succeed. "It's been rewarding for our engineering interns. By the end of their term here they are given significant responsibilities and find that they can make a real impact and feel a definite sense of accomplishment," Behm added.

The partnership with Lawrence Tech has been mutually beneficial to both Cadillac Products and the students.

"We're given the opportunity to evaluate engineering students and recruit candidates for permanent positions," Behm said. "A number of our full-time engineers were also interns here at some point. The Lawrence Tech students we've brought in all have had a strong technical foundation and were able to assume ownership of the projects and tasks they're assigned. This has freed up our engineers to work on other projects. This has

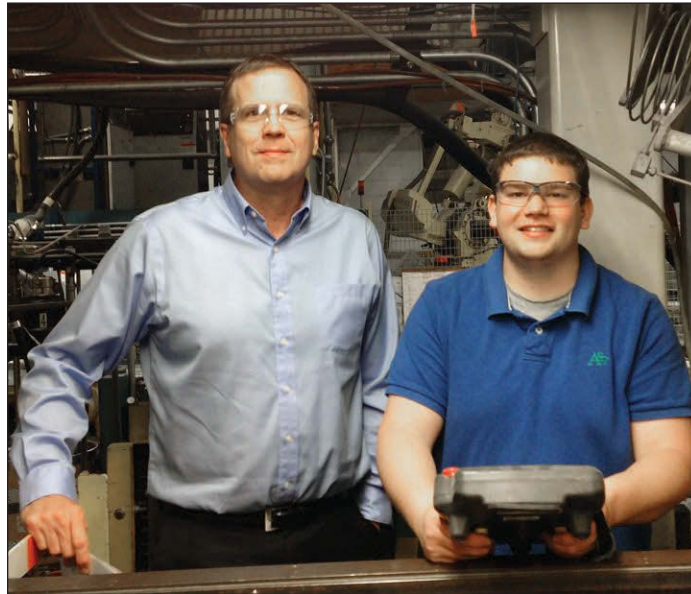


Photo courtesy Cadillac Products Automotive Co.

**Randall Behm (left), director of engineering at Cadillac Products Automotive Co., observes Lawrence Tech student intern Anthony Martinuzzi as he programs a computer.**

been invaluable because of the shortage of technical resources in southeast Michigan the past several years that has affected everyone in the automotive industry."

Anthony Martinuzzi is a good example. He was hired as a process engineering intern in January 2013 and worked for Cadillac Products part-time during the school year while he continued to take his courses at Lawrence Tech.

"Like all the interns that we bring in, Anthony was partnered with a departmental engineer who mentored him until he was ready to manage his own projects," Behm said. "He caught on quickly here and was taking ownership of various equipment, process, and tooling issues. Anthony also took a robot programming course and was soon programming the many robots in our different processes."

Subsequently, Martinuzzi became a full-time process launch engineer while continuing to take classes at night to complete his degree in mechanical and manufacturing engineering technology.

Founded in 1942, Cadillac Products supplies protective plastic, exterior and interior

acoustical products, and energy management parts to the automotive industry. The firm has earned numerous quality awards and full-service supplier status.

Behm has been at Cadillac Products for over 20 years and has served in many capacities

starting as project engineer and continuing into his current position as director of engineering. When he transitioned to management several years ago, he began taking night classes in Lawrence Tech's MBA program.

"There were many courses taken during my tenure at Lawrence Tech that helped me grow as a manager," Behm recalled. "A couple of the classes that I found especially beneficial were the Leadership and Labor courses taught by Frank Cusmano and the Strategic Management course taught by Dr. Jamie Hsu. The many practical applications reviewed along with the open and often animated discussions made these classes both effective and enjoyable." □CWM

## Spring training in Lakeland



**A lively group of Lawrence Tech alumni got together in March in Lakeland, Florida, to watch their beloved Detroit Tigers play a spring training game. From left to right in the photo are Bill Schultz, BSCE'81; Robbie Williams, BSCvE'50; Alan Zahm, BSCh'73; Wendy Meldrum, MBA'06; Barry Schwab, AMT'69, BSIM'80; and Dick Sharp, BSME'53.**

## Audio engineering graduates worked on premium sound system as interns

Two recent graduates of the audio engineering technology program at Lawrence Tech are helping to promote the new premium audio sound system for the Mini Cooper that they worked on as interns at Panasonic Automotive Systems of America.

Katherine Wilbert, BSAET'14, and Alex Porchia, BSAET'15, were assigned to the Abbey Road project when they interned at the Panasonic facility in Farmington Hills. The Panasonic team worked with audio engineers from the legendary Abbey Road Studios of Beatles fame to produce a premium sound system to be offered to the British Motor Corp., which makes the Mini Cooper.

The sound system was demonstrated at the North American International Auto Show in Detroit, and an agreement was later reached to make it available in the 2016 model of the Mini Cooper.

Wilbert and Porchia are now full-time employees at Panasonic and work on a number of projects in the company's audio and acoustics division. They were

asked to help promote the Abbey Road sound system they previously worked on.

Porchia emphasized that this is not a licensing agreement to put



*LTU alumni Katherine Wilbert and Alex Porchia were at Motor City Mini in Southfield in March to answer questions about the Abbey Road premium sound system that will be available in the Mini Cooper later this year.*

the Abbey Road name on a product developed by Panasonic on its own. Abbey Road audio engineers came to Michigan to help recreate the unique recording sound that was made famous by the Beatles album, "Abbey Road."

The studio continues to be used by many popular musicians and singers, including Adele.

The challenge with an automobile sound system is to properly tune it for a small space.

Wilbert and Porchia were able to contribute to that process as interns because of the courses they had taken at LTU. For example, an audio engineer needs to understand how to read measurements of frequency response and signal amplitude in order to properly tune an audio system.

"My LTU degree prepared me with a lot of fundamental concepts that are very relevant to the industry," Porchia said. "You must have a really good understanding of audio technology in order to help create the next greatest audio solution for a vehicle." □EP

## Winterlude 2015

In March LTU President Virinder Moudgil, faculty, administrators, and staff from the Office of University Advancement took the opportunity to thank the University's major supporters at Winterlude, which was held this year at the Royal Park Hotel in Rochester.

Hosting Winterlude at the Royal Park Hotel was especially appropriate because LTU Trustee Victor Saroki, BSAr'79, BA'r'80, led the hotel's design team. The evening began with Saroki's "behind the scenes" presentation about designing the hotel.

*W. Bernard White, BSCE'80, (left) with Roger Avie, BSIM'68, and his wife, Judy, at Winterlude 2015.*



*LTU President Virinder Moudgil (right) chatted with Roger Shtogrin, BSIM'61, and his wife, Virginia, and Robert Godtroid, BSCh'87.*



*LTU Trustee Victor Saroki, BSAr'79, BA'r'80, and his wife, Michelle, visited with Glenda and A. Leon Linton, BSME'62, HD'14.*



# Alumni Notes

*Alumni Notes includes news gathered from alumni, their families and friends, and media reports. Submissions received after the deadline for this issue will appear in the winter 2015–16 issue. Use the form in this section to share news about you!*

## 1960–1984

**Jamal S. Kalabat**, BSCE'78, was appointed to the board of directors of the Community House in Birmingham. He is president of Kalabat Corp., a diversified real estate firm.



**Benedetto Tiseo**, BSAr'78, FAIA, NCARB, president of Tiseo Architects Inc., and his wife, Christiane, celebrated their 30th wedding

anniversary in 2014. Ben has served as an adjunct instructor at Lawrence Tech since 1980 and received the 1999 Distinguished Architecture Alumni Award. In 1996, he was founding chair of the Architecture Chapter of the LTU Alumni Association. The couple's son, **Dominic**, has a degree in biomedical engineering from Lawrence Tech.



**Larry A. Lawson**, BSEE'80, is CEO of Wichita, Kansas-based Spirit AeroSystems, Inc., the world's largest first-tier aerostructures manufacturer. Larry is a member of Lawrence

Tech's Board of Trustees and a lifetime member of the 1932 Society. He is a 2012 Alumni Achievement Award recipient and a member of the College of Engineering Hall of Fame.

**The Rev. Jerry L. Rankin**, BSIM'80, is the author of "The Coordinate Geometry Project Student Workbook," which seeks to revolutionize the teaching of mathematics for students from 5th through 12th grades. Jerry is also an associate minister at Detroit's Tabernacle Missionary Baptist Church.

**Richard J. Szalc**, BSIM'80, a managing director at Neuberger Berman in Dallas, was named one of "America's Top 1,200 Financial Advisors" by *Barron's* magazine. Richard manages \$1.6 billion for clients and ranks number three in Texas, according to the magazine.

**Mark A. Farlow**, BSAr'81, BA'82, MAR'09, was named director of design at Hamilton Anderson Associates in Detroit. Mark is a former member of the Architecture Alumni Cabinet at Lawrence Tech.



**Randall C. Sherman**, BSAr'83, was promoted to president of Three Rivers Corp., a Midland-based construction firm. He was previously

executive vice president and chief operating officer.

**Michael A. Clark**, BSEE'83, was appointed to senior director of microwave solutions of the electronics group at Crane Aerospace & Electronics, a unit of Crane Co. based in Stamford, Connecticut.

**Douglas G. DelGrosso**, BSME'84, president and CEO of Henniges Automotive in Auburn Hills, was appointed to the board of directors at Lincoln Educational Services Corp. in West Orange, New Jersey. A former Lawrence Tech trustee, Doug is a member of the Benefactors Society at Lawrence Tech and a recipient of the National Philanthropy Day Volunteer award.

**James P. Holland**, BSME'84, was named vice president, Vehicle Component and Systems Engineering, at Ford Motor Co. He was previously engineering director at Ford Asia Pacific in Melbourne, Australia.

## 1985–1989

**Bradley J. Butcher, Sr.**, BSAr'86, BA'88, AIA, is senior project manager in the Gaylord office of Novi-based Sidock Group, an architectural and engineering firm.

**Jack J. Shubitowski**, BSBA'86, is president and CEO of Huron Valley State Bank in Milford. He is a member of the College of Management Advisory Board at Lawrence Tech.

**David A. Darbyshire**, BSME'87, is owner and co-founder of DASISolutions in Pontiac, a reseller for SolidWorks 3D software solutions and dealer for Stratasys 3D printers. The company received the 2014 Reseller of the year award from SolidWorks World. David's brother, **Richard Darbyshire**, BSME'94, is the firm's managing member.



**Donna L. Bell**, BSEE'89, won the award for excellence in leadership at the Engineering Society of Detroit's Gold Award Banquet in March.

She chaired the Detroit chapter of the National Society of Black Engineers from 2012 to 2014. She is a manager at Ford Motor Co. responsible for electrical and electronic systems quality globally. Donna serves as a director of LTU's alumni association.

**Sean D. Kurtz**, BSME'89, was named general manager and director of operations at the Danish firm Danfoss's compressor manufacturing facility in Arkadelphia, Arkansas.

**Sean T. O'Brien**, BSAr'89, president of Sean O'Brien Architecture in Brooklyn, NY, was appointed to the planning commission in Garden City, New York.

**Denise E. Orr**, BSEE'89, BSMCS'89, a quality engineering consultant at the Productivity Team LLC in Lake Orion, was named a 2015 Professional Woman of the Year by the National Association of Professional Women.

## 1990–1999

**Rajeev Batra**, BSEE'90, president of Digital Factory division of Siemens USA, was elected to the board of governors of the National Electrical Manufacturers Association.

**Brian S. Gill**, BSAr'90, AIA, is president of TDG Architects, the principal architect for the Strand Theatre renovation in downtown Pontiac. TDG also has been awarded the contract to design the new Slows Bar BQ to be located inside the theater.

**John P. Minear**, BSAr'90, AIA, NCARB, is managing director of Detroit-based BEI Architects & Engineers. He has been teaching architectural design as an adjunct professor at LTU since 2004.

**John Boulahanis**, BSEE'92, PE, won the distinguished service award at the Engineering Society of Detroit's Gold Award Banquet in March. He was recognized for his contributions to the Detroit section of the American Society for Quality. He is the owner of JAMA Consulting, which provides business and executive coaching services.

**Samer H. Halaoui**, BSEE'92, is regional director, Middle East, Africa and Central Asia for Inmarsat PLC, a British satellite telecommunications company.

**Kerry E. Grand**, BSEE'94, is a principal consulting engineer at the MathWorks Inc., a Natick, Massachusetts-based firm that specializes in mathematical computing software. He holds 14 patents related to the design and development of production software for electric vehicle and embedded control systems.

**Misty J. Raatz**, BSAr'95, MAR'97, joined TMP Architecture in Bloomfield Hills as a project manager.

**David W. Broome**, MSIS'96, director of customer marketing and community lighting at DTE Energy, was named to the board of directors of the Arab American and Chaldean Council. He is a member of the advisory board for LTU's College of Management.

**Timothy A. Inman**, BSCvE'97, PE, PS, was promoted to principal at Spicer Group, an engineering, surveying and planning firm in Saginaw.

**Lamberto Smigliani**, BSAr'97, MAR'99, is a project manager at Eview 360, a Michigan-based design agency with offices in Farmington Hills and Dubai.

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

**Ahmed M. Beasley**, BSCvE'98, joined real estate consulting firm Plante Moran Cresa as an associate of project management, focusing on the education and commercial industry.

**Wesley D. Franklin**, BSEE'98, PE, joined B&W Control Systems Integration in Crystal Lake, Illinois, as a senior systems integrator and project manager.

**Jeremiah J. Doornbos**, BSAr'98, AIA, LEED AP, is a senior project designer with Ghafari Associates Inc., an architectural and engineering firm based in Dearborn.

## 2000-2015

**Anthony P. Racka**, MBA'00, professor of business administration at Oakland Community College, received the Keith A. Pretty 2014 Distinguished Online Faculty Member of the Year Award from the Alliance for Excellence in Online Education.

**Jennifer A. Elmore**, BSAr'01, MAR'06, joined Detroit-based Kraemer Design Group PLC as a project architect.

**Christopher A. Johnson**, MSIS'03, was promoted to vice president of consumer acquisition at FordDirect, a joint venture between Ford Motor Co., and its franchise dealers.

**David S. Barduca**, BSAr'04, MAR'13, LEED AP, an architect with Joseph Mosey Architecture Inc. in Northville, recently earned his architectural license from the state of Michigan.

**Lisa M. Pitt**, BSAr'04, MAR'05, joined real estate consulting firm Plante Moran Cresa as an associate of project management.

**Jason D. Ritter-Lopatowski**, BSAr'04, is an associate at rtequ, an architecture firm based in San Diego.



**Esther M. Ryskamp**, BSAr'05, MAR'10, AIA, LEED AP, was promoted to associate at WDG Architecture in Washington, D.C.

**Clarence Sevillian**, CIMBA'05, was named president and CEO at McLaren Bay Region Hospital in Bay City. He was previously president and CEO at McLaren Oakland in Pontiac.

**Irsida Bejo**, BSAr'07, is an independent architectural designer and urban researcher in Metro Detroit and one of the organizing leaders of Architecture for Humanity in Detroit. She is also an adjunct professor in Lawrence Tech's College of Architecture and Design.

**Judson W. Brood**, BSAr'09, LEED AP, joined the Kalamazoo office of TowerPinkster as an architectural project coordinator.

**Andrew M. Maurer**, BSME'09, joined the Royal Oak office of Howard & Howard Attorneys PLLC as an associate with a concentration in intellectual property law.

**Andrew K. Melow**, BIA'09, joined Detroit-based Kraemer Design Group PLC as an interior designer.

**Brian M. Sarkella**, BSCvE'09, PE, an assistant project manager in the Civil Utilities Division at Rowe Professional Services Co. in Flint, earned his professional engineer license.



**Christopher A. Gerrity**, MAR'12, a project architect at Indianapolis-based Schmidt Associates, was awarded the 2014 American Institute of Architects Indiana Young Architect Award.

**Ulanda C. Caldwell**, MBA'13, was elected to a four-year term on the Romulus Board of Education. She is an advisory council member for the Senior Alliance, Area Agency on Aging, and a board member of the Michigan Democratic Party Justice Caucus.



**Ashley R. Brenner**, BSAr'14, is a design intern in the Kalamazoo office of TowerPinkster.

**Cedric D. Clark**, MBA'14, MSOM'14, received his Risk Management Professional (RMP) certification from the Project Management Institute.



**Jacob B. Boyd**, BSAr'15, BSCM'15, joined CSM Group, a Kalamazoo-based construction-management firm as a project engineer.

## 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, or email [alumni@ltu.edu](mailto:alumni@ltu.edu). 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:  
Lawrence Technological University, Office of Alumni Relations  
21000 W. Ten Mile Road, Southfield, MI 48075-1058  
Fax: 248.204.2207



# In Memoriam

*Information for this section is gathered from family and friends of the deceased and from newspaper and electronic 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.*

**Harry H. Lipton**, BME'34, of Dearborn Heights, April 3, 2015. Mr. Lipton, a 1954 Alumni Achievement Award honoree, was 103 years old. After working many years in the airplane manufacturing industry, he opened American Aircraft Parts Manufacturing Co. in Dearborn, where he worked until he retired at age 86. He was survived by his wife, Maxine.

**Leon H. Cutler**, BEE'43, of Trumbull, Connecticut, March 12, 2013. He was survived by his wife, Marilyn, who died on July 20, 2014, and two children.

**Earle V. Schirmer**, BME'43, of Simi Valley, California, May 11, 2013. Mr. Schirmer was a 1963 Alumni Achievement Award honoree when he was vice president of a firm that developed containers for protecting sensitive electronic equipment. Earlier, he had engineered and led development of lightweight materials for the defense industry, including portions of the B-47 bomber, aerial delivery of materiel by parachute, and radar plotting boards for air defense installations.

**Thomas W. Shearer Jr.**, BSEE'43, of Auburn Hills, Jan. 13, 2014. He was survived by four daughters.

**John W. Walstrum**, BSME'48, of Byron Center, Dec. 18, 2014. Mr. Walstrum served in the Army Air Corps during World War II. He worked for Consumers Energy for 37 years as a power plant construction supervisor. He was survived by his wife, Elinore, three sons, and a daughter.



**Robert W. Bowser**, BSEE'49, of Chandler, Arizona, Aug. 23, 2014. Mr. Bowser served in the Air Force during World War II. He was a contract engineer in the aircraft radar technology industry before embarking on a long career with Motorola. He was survived by a son and a daughter.

**William N. Sullivan**, BSME'49, BSIE'61, of Hemet, California, Aug. 18, 2014. A General Motors retiree, Mr. Sullivan was survived by a son and a daughter.

**Edward E. Weidel**, BSChE'49, of Livonia, Oct. 3, 2004. He was survived by two daughters.



**Chester F. Wells**, BSME'49, of Cadillac, March 26, 2014. Mr. Wells, a lifetime member of the Presidents Club, worked as an engineer at

Chrysler for 30 years. He was survived by a son and a daughter.

**Frederick J. Button Jr.**, BSME'50, of Palm Harbor, Florida, April 17, 2014. A Ford Motor Co. retiree who worked on the original Mustang, Mr. Button was survived by his wife, Beverly, and two daughters.

**John Fontanesi**, BSME'50, of San Diego, Jan. 11, 2015. Mr. Fontanesi served in the Marines during World War II. He was the retired CEO of Fontanesi & Kahn. He was survived by his wife, Maryann, three sons, and a daughter.

**Raymond J. Pensak**, BSCvE'50, of Hacienda Heights, California, Aug. 18, 2014. Mr. Pensak served in the Navy in World War II. He was a member of the U.S. Army Corps of Engineers for over 45 years. He was survived by his wife, Kathleen, three daughters, and a son.

**Edmund J. Wayne**, BSME'50, of Dearborn, Aug. 30, 2014. A Ford retiree, Mr. Wayne was survived by his wife, Irene, three daughters, and a son.

**James A. Downey**, BSBA'51, BSIE'61, BSME'63, of Dearborn, March 11, 2015. Mr. Downey was a lifelong Ford employee, retiring as a supervisor in truck engineering. He was survived by his wife, Imelda, two sons, and two daughters.

## Alfred Taubman – former student, professor, and generous supporter

A. Alfred Taubman, HD'85, of Bloomfield Hills, April 17, 2015. Mr. Taubman attended architecture classes in the 1940s and went on to pioneer the design and development of innovative shopping centers and malls in response to the rapid growth of suburbs during the economic boom that followed World War II. He branched out into other business activities during a long career. Mr. Taubman returned to LTU on several occasions in the 1990s and as recently as 2010 to teach popular classes in real estate development. He also invited nationally renowned architects to teach with him. He provided the lead gift for LTU's innovative Taubman Student Services Center that opened in 2006. He provided the lead gift for the Taubman Engineering, Architecture, and Life Sciences Complex that will open in 2016. He took an active role in the design of both buildings and the selection of architects. He also donated the sculpture, *Okkham's Wedge*, that sits in the middle of the Quad.

"Mr. Taubman's generosity has assured that many future generations of LTU students and scholars will have access to outstanding educations and facilities, and we are forever grateful for his kindness, friendship, and support," LTU President Virinder Moudgil said at the time of Mr. Taubman's death.



*A. Alfred Taubman was surrounded by students in 2010 when he aided a fundraiser of Lawrence Tech's chapter of the American Institute of Architecture Students.*

**Kenneth M. Kiser**, BSChE'51, of Williamsville, New York, Oct. 28, 2014. Mr. Kiser had a long career at the University at Buffalo as a professor of chemical engineering and later an associate dean for the School of Engineering and Applied Sciences. He was survived by his wife, Florence, four sons, and a daughter.

**Fred W. Koepka**, BSME'51, of Livonia, Oct. 24, 2014. Mr. Koepka was retired director of marketing and engineering for the Sentry-Spray subsidiary of Ingersoll Rand. He was survived by his wife, Grace, and three daughters.

**Delwin A. Lindh**, BSBA'51, of Brooklyn, Michigan, Aug. 24, 2014. Mr. Lindh served in the Army during World War II. He was a retired director of purchasing for Cadillac Gage. He was survived by three daughters and a son.



**John C. Malstrom**, BSME'51, of Traverse City, Aug. 30, 2014. Mr. Malstrom worked for the Cross Co. in Fraser and DME Co. in Madison

Heights. He was survived by a son and a daughter.

**Jack R. Pelamati**, BSEE'51, of Raseda, California, Oct. 6, 2013. Mr. Pelamati served in the Navy Reserve. He was retired from Hughes Aircraft Co. He was survived by his wife, Lori, three sons, and three daughters.

**Thomas O. Riley**, BSBA'51, of Dallas, Nov. 4, 2013. Mr. Riley was a special assistant to the president of Uniroyal Tire. He was survived by a nephew.

## Louis J. Jelsch – athlete extraordinaire

Louis J. Jelsch, BSME'44, of Royal Oak, Feb. 1, 2015. Arguably the most versatile athlete in LTU's history, Mr. Jelsch starred in six varsity sports: football, basketball, baseball, track, tennis, and swimming. Beginning in 1935, he led or captained most of LTU's teams, earning 22 varsity letters and several "most valuable player" awards. He took all-conference first team honors in football, 1937–39, and led the Blue Devils to football conference championships in 1937 and 1938. His professional career included positions as engineering manager of the mass transit division and chief development engineer of Rockwell International, plant manager of Rockwell's 1,000-employee Chicago Seating Division, and chief engineer of suspension for Ford Motor Company. He served as a lieutenant commander in the Naval Ordnance Bureau during World War II and Korea. In 1964, he received the Alumni Achievement Award, Lawrence Tech's highest honor. Mr. Jelsch was inducted in 2011 into LTU's Athletic Hall of Fame as part of the 1938 football team, which he captained, and individually in 2013 when his

football jersey, #80, was permanently retired and raised to the rafters of the Don Ridler Field House. His survivors include a daughter.



*Louis Jelsch starred in football, basketball, baseball, track, tennis, and swimming while earning a degree in mechanical engineering at Lawrence Tech.*

**James D. Buescher**, BSME'52, of North Fort Myers, Florida, Jan. 13, 2015. Mr. Buescher served in the Air Force during World War II. He spent the last 30 years of his career with Dana Corp., retiring as general sales manager. He was survived by his wife, Elizabeth, two sons, and two daughters.



**Carl A. Hammack**, BSIE'52, of Troy, June 3, 2014. Mr. Hammack served in the Army during World War II. He was retired from Fisher Body as a senior plant engineer. He was survived by three daughters.

**John W. Kono**, BSChE'52, of Spokane, Washington, Jan. 17, 2009. He was survived by a daughter.

**John I. Manecke**, BSME'53, of Milford, Jan. 16, 2015. Mr. Manecke served in the Army Air Corps during World War II. He was formerly a sales consultant for Fayette Tubular Products. He was survived by his wife, Betsy, and two sons.

**Peter A. Turczyn**, AMT'56, of Punta Gorda, Florida, Oct. 4, 2014. Mr. Turczyn was a retired tool and die engineer at the GM Tech Plant in Warren. He was survived by his wife, Tonya, a son, and a daughter.

**Gene H. Whitfield**, BSIM'56, of West Bloomfield, Jan. 19, 2015. Mr. Whitfield was an Army veteran. He was formerly a product marketing manager at GTE Valenite Corp. He was survived by three sons and a daughter.



**Roy B. Barrett**, BSIE'57, of Traverse City, Nov. 3, 2014. He was survived by a son and a daughter.

**John A. Blose**, BSME'57, of Bloomfield Hills, Dec. 28, 2014. Mr. Blose was an Army veteran. He was president of John Blose Associates Inc. He was survived by his wife, Dorothy, and a son.

**Cassimer M. Kukla**, AEET'57, of Prescott, Arizona, Aug. 2, 2014. He was survived by his wife, Gloria.

**Harold A. Kuypers**, BSME'57, of Jackson, Nov. 20, 2014. Mr. Kuypers served in the Army Air Corps. He was a retired senior manufacturing engineer at Hayes-Albion Corp. He was survived by his wife, Dorothy, two daughters, and a son.

**George G. Beauregard**, BSME'58, of Shelby Township, May 2, 2013.

**Gordon R. Dieselrod**, BSArE'58, of Palmetto, Florida, Aug. 15, 2014. Mr. Dieselrod was a retired senior vice president at Albert Kahn Associates. He was survived by a sister.

**John S. Duncan**, ARACT'58, of Adrian, Sept. 24, 2013. Mr. Duncan worked for many years for Tecumseh Products as vice president of sales. He was survived by his wife, Marilyn, a son, and a daughter.

**Wilfred M. Fettis**, ARACT'59, of Petoskey, Dec. 19, 2014, at his winter home in Bradenton, Florida. He was survived by his wife, Lois.

**Richard C. Glowacki**, BSEE'59, of Farmington Hills, June 23, 2014. Mr. Glowacki was a Ford retiree. He was survived by his wife, Kay, two daughters, and a son.

**Herbert J. Hoekstra**, BSME'59, of Nolensville, Tennessee, May 1, 2012. He was survived by his wife, Catherine, two sons, and two daughters.



**Harrison A. Levy**, BSME'59, of St. Clair Shores, Oct. 23, 2014. Mr. Levy was an Air Force veteran. He was a retired senior engineer at Ford.

He was survived by four daughters and three sons.

**Merlin J. Phillips**, BSIM'59, of San Juan, Puerto Rico, Sept. 24, 2014. Mr. Phillips was a retired senior buyer at Phillips Purchasing Service. He was survived by his wife, Guadalupe.

**Thomas J. Reaume**, AMT'59, of Royal Oak, Dec. 11, 2014. Mr. Reaume was employed at Vickers and MC Aerospace. He was survived by his wife, Mary Lou, three sons, and a daughter.

**Billy F. Schinzing**, BSEE'59, of Lucas, Texas, Dec. 26, 2014. Mr. Schinzing worked as a quality control engineer at General Electric for over 30 years. He was survived by his wife, Alberta, three daughters, and a son.

**Lawrence G. Peck**, BSME'60, of Covington, Georgia, Sept. 10, 2014. Mr. Peck was a retired project and design engineer at Unarco. He was survived by his wife, Joyce.

**David A. Foley**, AEET'61, of Brighton, April 5, 2013. Mr. Foley was a Navy veteran. He was a service planning supervisor at DTE Energy. He was survived by his wife, Kathleen, and four children.

**Thomas F. Phillips**, AIST'61, of Holly, Aug. 18, 2014. Mr. Phillips served in the Navy during World War II. He worked for Chrysler Missile, where he was involved in the development of a booster for launching the first satellite, and later for Chrysler Motors. He was survived by his wife, Loraine, and a son.

**Richard G. Sclabassi Sr.**, AMT'61, of Allen Park, Oct. 19, 2014. Mr. Sclabassi was a senior designer/designer supervisor at General Motors for 51 years. He was survived by his wife, Roberta, and three sons.

**Robert E. Spence**, BSIM'61, of Fort Lauderdale, Florida, June 8, 2014. Mr. Spence owned a Buick dealership in Ohio before moving to Florida and founding Solid Surf, a company that builds skateboard parks around the country. He was survived by his wife, Darlene, two sons, and a daughter.

**Philip W. Taylor**, BSEE'61, of San Antonio, Texas, Aug. 22, 2014. Mr. Taylor was retired from Gould Electronics Inc. He was survived by his wife, Doris.



**Norman B. Tomboni**, BSEE'61, of Muncie, Indiana, Nov. 9, 2014. Mr. Tomboni served in the Navy during the Korean War. He was an electrical engineer for Ball Corp. for 29 years. He was survived by two sons and a daughter.



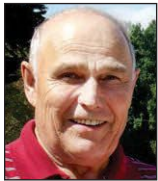
# I N M E M O R I A M

**William F. Baugh**, AMT'62, of North Augusta, South Carolina, Feb. 22, 2014. He was survived by his wife, Bonnie, and three daughters.

**Robert P. Bozzi**, AMT'62, AIST'68, of Troy, Aug. 31, 2005.

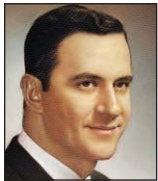
**Albert J. Hendricks Jr.**, AMT'62, of Taylor, Dec. 30, 2012. He was survived by his wife, Lonnie, and two sons.

**Kurt W. Ballman**, BSEE'63, of Ann Arbor, July 27, 2014. Mr. Ballman worked at LTV Aerospace and Ford. He was survived by his wife, Marlene, two sons, and a daughter.



**Henry A. Even**, AEET'63, of Garden City, Sept. 21, 2014. Mr. Even worked for Michigan Bell for 35 years. He was survived by his wife, Gloria, and two children.

**Seid O. Ibrahim**, BSME'63, of Highlands Ranch, Colorado, Aug. 27, 2014. Mr. Ibrahim was retired from OEA Inc. He was survived by his wife, Berti, two sons, and a daughter.



**Robert M. Pitts**, BSCvE'63, of Greenville, South Carolina, Dec. 7, 2014. Mr. Pitts served in the Navy during World War II.

After working for the Wayne County Road Commission, he started his own surveying company, Arpee Co. Inc. He was survived by his wife, Hazel, two sons, and a daughter.

**Joseph Stano**, BSIE'63, of Delray Beach, Florida, Sept. 7, 2013. Mr. Stano, a Chrysler retiree, was survived by his wife, Katherine, and three daughters.

**Jerome N. Babula**, BSME'65, of Sterling Heights, Feb. 24, 2015. He was survived by his wife and two children.

**Gary E. Marzahl**, AEET'66, of Clarkston, Oct. 9, 2012. Mr. Marzahl was survived by his wife, Teresa.

**Robert A. Yanosy**, BSArE'66, of Rochester Hills, June 24, 2012. Mr. Yanosy was the owner of Yanosy Architects. He was survived by three sons.

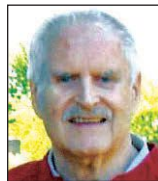
**James R. Holliday**, AEET'68, of Brighton, June 23, 2014. Mr. Holliday was a technologist at Ford.

**Reginald J. Anson**, BSIM'69, of Marco Island, Florida, Aug. 19, 2014. Mr. Anson served with the Marines in Vietnam. He was a retired plant manager at Ford. He was survived by his wife, Carol, three daughters, and a son.

**Robert J. Striho**, BSIM'70, of Reed City, Aug. 27, 2014. Mr. Striho served in the Army during World War II. He worked for Chrysler and Burroughs Corp. He was survived by his wife, Phyllis, and two daughters.

**Robert Wieczorek**, BSIM'70, of Ann Arbor, May 2, 2013. He was survived by his wife, Marianne, and two daughters.

**John L. Luttig**, BSAr'72, of Lansing, Sept. 18, 2014. Mr. Luttig worked in architectural design for the U.S. Postal Service.



**David C. Smith**, BSEE'72, of Fenton, July 27, 2014. Mr. Smith retired from the General Motors Tech Center as an IT specialist. He was survived by his significant other, Cathy Giessel.



**Michael J. Milosic**, BSIM'73, of Port Charlotte, Florida, Feb. 11, 2015. Mr. Milosic was employed by the Pontiac Police Department for

25 years, retiring as captain, and later worked as the head of security at the Pontiac Silverdome. He was survived by his wife, Sandra, and three step-children.

**Dennis M. Bogden**, BSEE'74, of Grand Blanc, Oct. 7, 2014. Mr. Bogden was director of electronics engineering in the Electronics, Integration and Software unit at General Motors Powertrain, retiring in 2007. He was survived by his wife, Michele, a son, and a daughter.

**David W. O'Neill**, BSBA'75, of Dearborn, Sept. 12, 2014. Mr. O'Neill was an Air Force veteran. He worked for General Electric for 35 years. He was survived by his life partner, Nadine Lovell, and two sons.

**Donald H. Miller**, BSAr'76, BA'79, of Port Huron, Jan. 9, 2015. Mr. Miller served in the Air Force during the Korean War. He worked for Detroit Edison for 47 years. He was survived by his wife, Sheila, and three sons.

**Alan R. Brodowicz**, BSCE'77, of South Lyon, Oct. 16, 2013. He was survived by his wife, Pamela, and three sons.

**Eugene V. Renaud**, BSEE'80, Aug. 26, 2014, of Melbourne, Florida, Aug. 26, 2014. Mr. Renaud was a principal engineer at Honeywell Corp.

**Thomas M. Johnson**, BSEE'81, of Redford, July 6, 2014. Mr. Johnson was a product engineer at Chrysler. He was survived by his wife, Xiuli.

**Ann W. Gilkey**, BSME'86, of Livonia, July 17, 2014. Ms. Gilkey was a retired automotive engineer at General Motors.

**Michael D. Martynow**, BSPH'86, of Allen Park, March 5, 2012. Mr. Martynow was a Navy veteran.

**Barbara L. Asher**, BSBA'87, of Lathrup Village, March 10, 2015. Ms. Asher was an ICU/critical care nurse at William Beaumont Hospital.



**James L. Coleman**, BSBA'89, of Garden City, July 14, 2013. Mr. Coleman owned and operated the James Coleman State Farm Agency. He was survived by his wife, Lisa, two sons, a daughter, and two step-children.

**Gerard R. deMatas**, BSBA'89, of Bloomington, Indiana, Dec. 7, 2014. Mr. deMatas had a diverse career working for GMAC, Detroit Rescue Mission Ministries, and as president of Bay Marketing Consultants. He was survived by his wife, Theresa, and a son.

**Mark W. Jensen**, BSCE'89, of Richland Hills, Texas, July 18, 2014. Mr. Jensen was a Navy veteran. He was a consultant for Rimkus Consulting Group Inc. He was survived by his wife, Sarah, and a daughter.

**Gregory J. Ferrington**, BSEE'90, of White Lake, May 3, 2014. Mr. Ferrington was president of Ferrington Associates Inc. He was survived by his wife, Laurie, and a son.

**Daniel W. Tupper**, BSBA'95, of Arcadia, Jan. 31, 2013. Mr. Tupper was an Air Force veteran. He worked for many years as a computer programmer in the automotive industry. He was survived by two daughters and a son.

**Gerald R. Schumann**, BSPH'96, of Dearborn Heights, Oct. 27, 2014. Mr. Schumann worked at Kmart, EDS, and Ford Motor Co. where he was a satellite engineer. He was survived by his wife, Maryann, and five children.

**Justin K. Koenders**, BSEE'97, of Lake Orion, Dec. 10, 2013. Mr. Koenders worked for DTE Energy for over 15 years. He was survived by his wife, Heather, and two step-children.

**Loran D. Walker**, MSIS'99, DMIT'08, of Clarkston, Nov. 25, 2014. Dr. Walker was a professor at Capella University and active in the Project Management Institute. He was survived by his wife, Susan, a son, and a daughter.

**Thomas C. Hager**, MBA'00, of Rochester Hills, Oct. 23, 2014. Mr. Hager worked in program management at Dana Corp. He was survived by his wife, Deanna, a son, and a daughter.

**Michael C. Ayoub**, MSIS'03, of Warren, March 17, 2014. He was survived by his wife, Karen, and a son.

**Regina Scott**, MSIS'05, of Pontiac, Aug. 18, 2014. She is survived by a son.

## DIT IN MEMORIAM

**Edward Lesniak**, BSME'39, of Farmington Hills, Feb. 13, 2015, at the age of 100. He was a professional engineer who designed a belt for 50-caliber machine guns and a helmet used in World War II. Survivors include a son and a daughter.

**Elmer B. Stracke**, BSIE'54, of Tamarac, Florida, April 24, 2014. Mr. Stracke was a retired buyer in the purchasing department at Chrysler Group LLC. He was survived by two children.

**Robert E. Tanner**, BSBA'57, of Cleveland, Nov. 15, 2013. He was survived by his wife, Lula May, two sons, and two daughters.

# I N M E M O R I A M

**Edward J. Wujek**, BSHu'59, of Grosse Pointe, Oct. 24, 2014. Mr. Wujek and his family operated the Wujek-Calcaterra & Sons funeral homes in Sterling Heights and Shelby Township. He was survived by his wife, Carolyn, and four sons.

**Douglas G. Cobb**, BSCh'60, of Milford, June 13, 2014. Mr. Cobb served in the Army during the Korean War. He was the retired manager of regulatory affairs at Kerr Manufacturing Co. He was survived by his wife Olive (now deceased), three daughters, and a son.

**Anthony S. Militello**, BAHis'63, of Traverse City, March 18, 2015. Mr. Militello worked as a store manager at several Kmart locations, then managed the Cherry Tree Inn in Traverse City. He was survived by his wife, Judy, and a daughter.

**Harold W. Harrison**, BSEE'67, of Brighton, Sept. 1, 2014. Mr. Harrison served in the Navy during the Korean War and was a flight instructor for many years. He was employed at the

GM Tech Center in Warren for over 20 years and later worked for a number of other automotive vendors. He was survived by his wife, Mary, two daughters, and a son.

**Elmer J. Mathia**, BSBA'43, of Traverse City, Jan. 16, 2015. Mr. Mathia served in the Army in Europe during World War II. He worked for 12 years in public accounting and then spent the next 26 years of his career in hospital administration at facilities in Wayne and Pontiac. He was survived by his wife, Barbara, two sons, and two daughters.

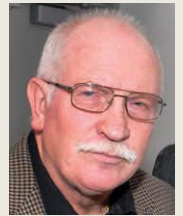
**Michael Gottler**, BSCE'54, of Livonia, Jan. 5, 2015. Mr. Gottler worked at Giffels Associates for 39 years. He was survived by three daughters and a son

**Charles Lee**, BSME'73, of Almont, Dec. 25, 2014. Mr. Lee was an engineering group manager at the Ternstedt and Fisher Body divisions of General Motors. He was survived by his wife, Shirley, and three daughters.

**Bernie Lis**, 80, of West Bloomfield, a former registrar and professor of computer programming, died Dec. 18, 2014. Mr. Lis was a professional photographer from an early age and the founder of a computer business starting in the 1970s. He was survived by his wife, Betty, and three sons.

**Caroline (Schumann) McCollom**, 83, of Tucson, Arizona, a reference librarian at Lawrence Tech from 1981–98, died March 17, 2014. She had a master's degree in library science from Wayne State University. She is survived by two sons and a daughter.

**George Schneider**, ACmT'73, of Farmington Hills, who taught manufacturing processes at Lawrence Tech from 1980 until his retirement in 2004, died Dec. 25, 2014. Mr. Schneider, 75, was a Navy veteran. He was the author of several books about manufacturing, and in later years donated nearly \$600,000 for scholarship funds at Lawrence Tech, Kent State University, and the Society of Manufacturing Engineers. He was survived by his wife, Ingeborg, and three sons.



**David Toth**, BSBA'91, of Southfield, who worked in LTU's IT Service Delivery Department for many years, died Oct. 14, 2014.

**William D. Wachob**, DMIT'09, of Livonia, who was executive director of Information Technology Service Delivery at LTU, died Dec. 20, 2014 at the age of 65. He was on the LTU staff from 2001–09 and then taught as an adjunct professor during the 2011–12 academic year.

## THE LAWRENCE TECH FAMILY

**H. Robert Farrah**, 81, an engineering professor and department chair, died Jan. 14, 2015. Dr. Farrah joined LTU's adjunct faculty in 1976 while working as a program manager at Bendix Research Labs. A graduate of MIT who earned his PhD at Wayne State University, he joined the full-time faculty in 1981 and served as chair of the Department of Electrical Engineering from 1989–98. He was named professor emeritus when he retired in 2011. He was survived by his wife, Deanna, and three children.



**Grace Huber**, 56, of South Lyon, a former secretary, died Feb. 21, 2014. She was survived by her husband, Bruce, and three children.

**Barbara Anne Kouskoulas**, 72, of Burtonsville, Maryland, a former professor in the College of Management, died Nov. 20, 2014. A devoted teacher and mentor, Kouskoulas taught finance and economics from 1991 until her retirement as associate professor emerita in 2007. She then returned to school for a nursing degree and pursued a new career as a midwife. She is survived by her husband, Vasily, a son, and a daughter.

## THE DIT FAMILY

**Jennie Ellen Master**, 93, a teacher for 47 years at the Detroit Institute of Technology, Michigan State University, Central Christian College in Kansas, and Jackson Community College, died in February 2015 in Jackson. She held degrees in mathematics from Central Michigan University and The University of Michigan.



# GIVING SOCIETIES

*This honor roll recognizes donors who through their generosity have qualified for membership in one of the University's giving societies and clubs. Their support ensures continued educational excellence at Lawrence Technological University.*

## LEADERSHIP CIRCLE

### A. Alfred Taubman Society

This Society honors donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$5,000,000 or more.

Recognition is also given for a pledge of \$5,000,000 or more; to donors who have formally notified the University they have included a \$10,000,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust, with a value of at least \$10,000,000.

### Edward Donley Society

This Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$1,000,000 or more.

Recognition is also given for a pledge of \$1,000,000 or more; to those donors who have formally notified the University that they have included a \$5,000,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance

policy or a charitable remainder trust with a value of \$5,000,000.

### Russell Lawrence Society

The Russell Lawrence Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$500,000 or more.

Recognition is also given for a pledge of \$500,000 or more; to those donors who have formally notified the University that they have included a \$2,500,000 bequest to Lawrence Tech in their

will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$2,500,000.

### E. George Lawrence Society

The E. George Lawrence Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$250,000 or more.

Recognition is also given for a pledge of \$250,000 or more; to those donors who have formally notified the University that they have included a \$1,000,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$1,000,000.

### 1932 Society

The 1932 Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$100,000 or more.

Recognition is also given for a pledge of \$100,000 or more; to those donors who have formally notified the University that they have included a \$500,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$500,000.

### Trustees Society

The Trustees Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$50,000 or more.



*Lawrence Tech's Class of 2015 has found placement success in percentages far above national norms. And the Brookings Institution reports that LTU is fifth in the nation for highest value added with respect to the occupational earnings power of graduates.*

# GIVING SOCIETIES

Recognition is also given for a pledge of \$50,000 or more; to those donors who have formally notified the University that they have included a \$250,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$250,000.

## Benefactors Society

The Benefactors Society honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$25,000 or more.

Recognition is also given for a pledge of \$25,000 or more; to those donors who have formally notified the University that they have included a \$100,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$100,000.

## Presidents Club (Lifetime)

The Presidents Club honors those donors who have achieved a cumulative record of outright gifts of cash, securities, real property, or gifts-in-kind totaling \$10,000 or more.

Recognition is also given for a pledge of \$10,000 or more; to those donors who have formally notified the University that they have included a \$50,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit



*A new SAE team at Lawrence Technological University competed in the Shell Eco-Marathon in Detroit in April. In June, the team won the Best Newcomer Performance Award at the SAE Supermileage competition. Members of the Blue Devil Motorsports 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.*

the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$50,000.

## Legacy Society

The Legacy Society honors those donors who have formally notified the University that they have included Lawrence Tech in their will, or that they have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust.

Donors to the Legacy Society will be recognized at Winterlude, the annual donor recognition gala. Legacy Society members will also be invited to participate in a series of seminars covering such possible topics as retirement planning, financial planning, and vacation planning.

Legacy members who provide the University with the substantiated value of their

bequest or planned gift will be eligible for recognition in the appropriate giving society in the annual Honor Roll of Donors.

## ANNUAL GIVING CLUBS

### Presidents Club (Annual)

Annual donors to the Presidents Club who make a gift of \$1,000 or more will be invited to and recognized at Winterlude, the annual donor recognition gala, and will receive recognition in the annual Honor Roll of Donors.

### Deans Club

Named in honor of our academic leadership, the Deans Club recognizes donors of \$500 or more. Annual donors to the Deans Club will be recognized in the annual Honor Roll of Donors.

### Blue Devils Club

Named in honor of Lawrence Tech's official mascot and embodying the Lawrence Tech team spirit, the Blue Devils Club recognizes donors of \$250 or more. Annual donors to the Blue Devils Club will be recognized in the annual Honor Roll of Donors.

### Century Club

One of the oldest giving clubs at Lawrence Tech, the Century Club recognizes donors of \$100 or more. Annual donors to the Century Club will be recognized in the annual Honor Roll of Donors.

*For more information on Lawrence Tech giving clubs and societies, please contact Dennis Howie, interim vice president of University Advancement and chief development officer, at 248.204.2304 or [dhowie@ltu.edu](mailto:dhowie@ltu.edu).*



# Donor Honor Roll

## LAWRENCE TECHNOLOGICAL UNIVERSITY 2014 DONOR HONOR ROLL

Listings within society and club levels reflect gifts made through Dec. 31, 2014. All efforts have been made to ensure the accuracy of our donor lists. Please contact the Office of University Advancement to report any errors.

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## Grateful alumnus and wife create legacy of generosity



*Fred and Marilyn Ciampa spoke to Ray Ziegler, supervisor of the Ciampa Fabrication Laboratory, following the dedication ceremony.*

When Fred Ciampa, BSME'64, graduated from high school in January 1954, he had planned to enroll in the University of Michigan. But his father had other ideas. "He told me that if I wanted to go to college," said Ciampa, "I would have to figure out a way to pay for it on my own.

"Well, that got me to Lawrence Tech, where I could work full-time and go to school at night. It was a long haul for me – it took 10 years to earn my degree, and I was married and had a couple of kids by the time I graduated; but it was well worth it. I had the practical, hands-on training I needed to succeed, and I am very grateful."

Over the years, his gratitude has turned into generosity; he is one of Lawrence Tech's most loyal donors.

Members of the 1932 Society, Ciampa and his wife, Marilyn, have been making contributions to Lawrence Tech since 1972. Their gifts include \$100,000 to name the Fred A. and Marilyn L. Ciampa Fabrication Lab in the A. Leon Linton Department of Mechanical Engineering. They also contributed \$25,000 to name Tutors' Row in the A. Alfred Taubman Student Services Center and have made a series of contributions to the College of Engineering, the Affleck House, Blue Devil Motorsports, the Don Ridler Field House, and the annual fund. □DJ

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## Collets bolster scholarship fund with \$25,000 pledge

Susan Collet, BSME'80, renewed her commitment to Lawrence Technological University by pledging an additional \$25,000 to the scholarship she and her husband, Gordon, established in 2009. Again taking advantage of Toyota's "dollar-for-dollar" matching gift program, Collet, who has been employed by the automaker since 1995, will grow the scholarship's funding to more than \$50,000 within five years.

Collet, a former scholarship recipient herself, started contributing to LTU through the annual fund after graduating. However, in 2009 she decided she wanted to do something significant that would leave a legacy at her alma mater. Explaining why, she said, "I received a great education at LTU and remember well how hard it was to balance studying and afford tuition, too. An endowed scholarship is the perfect way to help students follow in our footsteps and pursue their dreams."

Named "Outstanding Student of the Year" in her senior year, Collet certainly sets a good example. As chair of LTU's mechanical engineering industrial advisory board since 2010, she continues her involvement with the University and is able to review senior student projects each year.

Collet is senior principal engineer in Vehicle Regulations and Certification Engineering at the Toyota Technical Center in Ann Arbor. □DJ



Gordon and Susan Collet

### Presidents Club – Lifetime

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*Lawrence Tech has benefited from the ongoing generosity of the Donley family (left to right), John, Inez, Ed, Martha, and Tom.*

The three children of Ed Donley, BME'43, and the late Inez Donley – John, Tom, and Martha – made a \$350,000 gift to Lawrence Tech from the Donley Family Foundation. The gift will be used for scholarships for minority students focusing on the STEM disciplines of science, technology, engineering, and math. It will be matched dollar-for-dollar by the University.

The largest single gift in the Donley Family Foundation's history furthers the University's mission to support programs and organizations that give underserved people the education and resources they need to achieve their potential. It is reflective of the Donleys' long-time personal philanthropy, which has provided more than \$5 million in support for the University, much of it focused on scholarships for promising minority students in the College of Engineering.

"Ed and Inez have been in the vanguard of our most generous donors for decades," said Dennis Howie, interim vice president of University Advancement. "Their Ed and Inez Donley Scholars Program is the largest endowed scholarship in the history of Lawrence Tech. The Donley Family Foundation, which is run by their three children and four of their grandchildren, will ensure that their vision and mission continue."

In honor of this exceptional support, a Lawrence Tech giving society that acknowledges donors whose contributions to Lawrence Tech exceed \$1 million has been named for Ed Donley. □DJ

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## Haase brightens LTU's future with \$100,000 estate gift

Alan L. Haase, BSEE'82, president and CEO of PCX Aerostructures and a member of the College of Engineering's advisory board, has established a \$100,000 estate gift to Lawrence Tech to provide financial assistance for future students.

"Lawrence Tech was the first university I attended," Haase said. "I had to work multiple jobs while attending LTU as many others did, so I know from first-hand experience that money is always tight for students. Hopefully, this bequest will enable others to more easily attend and succeed at LTU."

Haase also said that he didn't realize how much he had learned at LTU until his first job following graduation. "I worked with many other college graduates from so-called 'more prestigious' schools who hired in at the same time," he said. "It was simply a matter of time before I was in a leadership role while the others were taking my lead."

He credits Lawrence Tech's educational model of "theory and practice" as the key to his success.

Haase went on to earn a master's degree in electrical engineering from Southern Methodist University and an MBA from the University of Texas at Dallas. "LTU prepared me with the necessary educational foundation for completing my professional degrees."

He has more than 30 years of leadership experience in international business, electronics, telecommunications, satellite systems, acquisitions/divestitures, manufacturing, and operations. □DJ



Alan Haase



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## ITC establishes endowed scholarship for power engineering

Novi-based ITC Holdings Corp., the nation's largest independent electricity transmission company, has enhanced its longstanding affiliation with Lawrence Tech by donating \$250,000 to establish the ITC Power Engineering Scholarship in the College of Engineering. It will provide one full-time student with half tuition each year.



Joseph Welch

Joseph Welch, chairman, president, and CEO of ITC, who joined LTU's Board of Trustees in 2014, said, "This endowed scholarship will give dedicated students an opportunity and additional reason to continue their LTU education, graduate, and begin their careers in the field of power engineering."

He added that it will advance the ITC-LTU partnership while creating a robust electrical engineering and power engineering talent pipeline. "As a corporation, we're also hoping to engage with Lawrence Tech in areas like academic programs, research initiatives, and industry collaboration as we look to provide students with real-world experience."

Philip Olivier, chair of LTU's Department of Electrical and Computer Engineering, said, "This expanded relationship with ITC will benefit our students and help us develop the top talent that the power industry requires."

ITC also offers a paid internship each year to the ITC scholarship recipient, reinforcing Lawrence Tech's "theory and practice" model of education. □DJ

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## \$700,000 grant expands entrepreneurial engineering education

The Kern Family Foundation awarded nearly \$700,000 to Lawrence Tech to expand its support for entrepreneurially focused education for engineering students. Building on several previous grants, this latest gift brings the foundation's cumulative giving to the University to \$2.5 million.

**Kern | FAMILY FOUNDATION**

"This grant will allow us to develop a sequence of project-based courses or engineering studios across all four years of the undergraduate experience. It will help us institutionalize active, innovative, collaborative learning that encourages curiosity, fosters the ability to define problems and solutions, helps students recognize business opportunities, and supports them as they take risks and learn from failure," said LTU Provost Maria Vaz, the principal investigator for the grant. "All of these attributes will help them develop an entrepreneurial mindset and prepare them for career success."

A large team has been working on this college-wide shift in perspective. They include Don Carpenter, who is co-principal investigator on the current grant; as well as Don Reimer, Andrew Gerhart, Karen Evans, Keith Nagara, and Scott Schneider, and as many as 50 other faculty members. In addition, Margaret Pierce, director of career services, is affiliated with the effort, and Katie Jolly serves as program coordinator.

The grant will augment developments already in place and allow LTU the opportunity to integrate the entrepreneurial focus across all four years through specific modules, studios, and classes. □DJ



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## Mitchell's bequest will expand scholarship in husband's memory

Karen Mitchell, retired from DTE Energy, has established a \$500,000 bequest in support of the Mitchell Wolf Endowed Scholarship.

Established in 2013 in memory of her late husband, Edward Wolf, the scholarship targets students in the College of Architecture and Design who are pursuing studies in restoration architecture.

Mitchell, a longtime friend of the University and tireless booster of the annual Tech Invitational golf tournament, explained, "Ed came from a working-class family in Benton Harbor and knew the value of education. He was an attorney by training, but he had a real appreciation for old architecture. I think he would have liked this."

Mitchell's initial gift to create the scholarship was \$25,000. Now, with funds from her bequest, she has guaranteed its ongoing viability to offer financial support to generations of students to come.

"I know that education is the key to living up to your full potential and living well, so founding and funding a scholarship is the perfect way to honor Ed's memory and make a meaningful difference in young people's lives," she added. "I came from a big family and there wasn't the financial support for higher education. Hopefully, I can provide that for students." □DJ



Karen Mitchell and her dog, Poppy.

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## Westport donates five trucks worth \$255,000

Westport, a natural-gas-engine and vehicle engineering company based in Vancouver, British Columbia, in Canada, has given the University a bi-fuel Ford F-250 truck that can run on either gasoline or compressed natural gas.



**LTU President Virinder Moudgil (left) acknowledges Hamid Servati's role in Westport's donation of five trucks.**

The bi-fuel truck will serve two purposes – student research in LTU's alternative fuels program and snow removal on campus.

Westport also donated four more trucks, another F-250, two F-150s, and an F-450, to be used for campus maintenance. Westport's generous gift of the five trucks is valued at \$255,000.

Hamid Servati, vice president of Westport and president of Belleville-based ServoTech Engineering, a wholly-owned subsidiary of Westport, formally donated the five gift-in-kind vehicles to LTU at a ceremony led by President Virinder Moudgil.

"In the past 80 years, LTU has done a great job of producing some of the best engineers and innovators in the automotive industries, among others," Servati said. "We at Westport are delighted to play a small part in helping further those advances for a better economy and society."

Associate Professor Robert Fletcher, director of the alternative energy program in LTU's A. Leon Linton Department of Mechanical Engineering, commented, "Having this bi-fuel truck will provide engineering students with the opportunity to study energy efficiency and systems optimization."

Servati also serves on the College of Management's advisory board. □DJ



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## Johnson Controls revitalizes LTU's dynamometer lab

Johnson Controls, Inc., a global, multi-industry company with core businesses in the automotive, building-efficiency, and energy-storage sectors, has expanded its partnership with Lawrence Tech to offer new opportunities for applied research and provide students with hands-on, real-world experience.

In May the renamed Johnson Controls Vehicle Engineering Systems Laboratory was dedicated in LTU's Applied Research Center.

Johnson Controls has donated and installed state-of-the-art test equipment and deployed technical resources in the lab to support the research and development of energy-storage technologies for automotive applications. Ultimately, these technologies will save consumers money through improved vehicle performance and functionality.

It's all part of LTU's new and expanded relationship with Johnson Controls spearheaded by MaryAnn Wright, vice president of engineering and product development for Johnson Controls Power Solutions, who joined LTU's Board of Trustees in 2013.

"We believe strongly in building the next generation of technical leaders through academic partnerships," said Wright. "It is an investment in both the future of academic research in energy management as well as the development of the talent pipeline for our industry."

LTU is leveraging its faculty expertise and research facilities in energy storage systems, electrification applications, modeling and simulation, and vehicle testing to assist Johnson Controls in meeting its research-and-development objectives.

The dynamometer lab can now provide testing services in the areas of engine efficiency, thermal management, hybrid powertrain analysis, regenerative braking systems, wheel lock or slip, and engine control strategies, among others. □DJ



**Johnson Controls executives Lisa Bahash (left) and MaryAnn Wright join LTU faculty researchers Giscard Kfoury and Selin Arslan at the official opening of the Johnson Controls Vehicle Engineering Systems Lab.**

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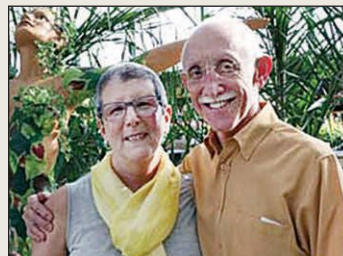
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## Grateful alumnus has been giving back to LTU since 1972

You could say that Ely Tama, BSIM'69, has taken a circuitous route to success. Born in Germany, he moved with his parents to Israel when he was a year old and then to the United States when he was 12. The family settled in suburban Detroit, and he graduated from Berkley High School and enrolled at Lawrence Tech in engineering.



Andrea and Ely Tama

"I chose engineering because I was good in math, and I liked numbers. But after my first year, I had a 1.0 grade point and was on the verge of being kicked out," he remembered. "I thought, 'I can't go home and tell my parents I've failed. What am I going to do?' Lawrence Tech was kind enough to put me on probation, and a professor suggested I take an accounting class. I had no clue what accounting was, but I figured I had nothing to lose. What a difference! I made the dean's list every semester after that."

As a result, he qualified for a scholarship. "I actually finished my degree for free," he said. "I told myself at the time that for the rest of my life I would be a donor to Lawrence Tech."

It's a promise he has kept for 42 years. Since his initial gift of \$20 to the annual fund in 1972, he and his wife, Andrea, have made at least one gift every year – a total of 45 separate donations – earning them membership in the Benefactors Society.

He is president of Tama, Budaj and Raab, PC, in Farmington Hills. □DJ

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 BA'78, MA'01  
 Capt. and Mrs. Joseph M. Klutz,  
 BSBA'85  
 Mr. Clifford J. Lavers, BChE'42 and  
 Mrs. Carmela Cole-Lavers  
 Mr. and Mrs. Robert C. Look, Jr.,  
 BSIM'82  
 \*Mr. and +Mrs. Adolph Lovoff, BEE'34  
 \*Mr. H. Douglas Lowrey, BME'41 and  
 \*Mrs. Janet M. Barkovich-Lowrey  
 \*Mr. and \*Mrs. Ben C. Maibach, Jr.  
 \*Mr. Willis B. Manchester, Jr.,  
 BSME'58  
 Dr. and \*Mrs. Richard E. Marburger,  
 HD'93  
 \*Mr. William F. Marshall, BSME'50 and  
 \*Mrs. Bonita J. Marshall  
 Mr. Richard L. Matheny, BSIM'73,  
 BSME'79  
 \*Mr. C.W. S. McGill  
 \*Mr. Ralph W. Michelson, BSEE'48  
 Ms. Karen R. Mitchell, CEM  
 Mr. and Mrs. Leslie Mollon, BSME'56  
 Mr. and Mrs. Michael G. Morris  
 Dr. and Mrs. William A. Moylan, Jr.,  
 BSCE'74  
 Mr. and Mrs. Russell R. Noble,  
 BSEE'48  
 \*Mr. Orval A. Opperthaus BSIE'48,  
 BSEE'50, HD'06 and Mrs. Ann T.  
 Opperthaus  
 \*Mr. and Mrs. Thomas F. Phillips,  
 AIST'61  
 Mr. Stephen C. Ragan  
 Mr. and Mrs. Ronald L. Ranson,  
 BSEE'66, BSIM'69  
 Mr. Robert R. Reiner, BSEE'66  
 Mr. Robert A. Saccaro, BSME'44 and  
 +Mrs. Shirley E. Saccaro  
 Mr. and Mrs. Joseph F. Savin  
 \*Mr. William J. Stevenson, DIT-  
 BSME'43 and Mrs. Charlotte M.  
 Stevenson  
 \*Mr. George F. Stirrat, BSME'52  
 Mr. Michael A. Stuart, BSCh'90  
 Mr. and Mrs. A. Alfred Taubman,  
 HD'85  
 Dr. and Mrs. Kurt O. Tech, BSME'48,  
 HD'90  
 \*Mr. Raymond L. Urban, BME'35  
 \*Dr. Harvey A. Wagner, HD'69  
 Mr. Clune J. Walsh, Jr.  
 Mr. and Mrs. Duane E. Young, DIT-  
 BSBA'64  
 Mr. Rudolph J. Zornik, BSIM'72  
 Mr. and Mrs. Michael G. Zulinski,  
 BSIM'74



A PUBLICATION FOR ALUMNI AND FRIENDS OF LAWRENCE TECHNOLOGICAL UNIVERSITY

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# Mink estate makes \$5.4M gift to Lawrence Tech endowment

“We were pleased to learn that Lawrence Tech had been named a beneficiary of the George and Dorothea Mink Trust,” said Dennis Howie, interim vice president of university advancement. “We received \$5.4 million to establish an endowed scholarship in the College of Engineering with a focus on providing full scholarships to help attract some of the best and brightest high school students to the University.”

Designated the primary recipient, Lawrence Tech received 85 percent of the funds held in the Minks’ trust; the other 15 percent was directed to the Michigan Humane Society. “When someone includes the University in their estate plan, it is truly a special commitment,” said Howie. “Our only regret is that the Minks kept this a secret. We never had the opportunity to thank them personally.”

Despite their notable generosity, the Minks remain something of a mystery to the University. “We have no record of either of them having attended Lawrence Tech,” said Howie. “We know Mr. Mink was an engineer by trade, and that he held a few patents in material handling systems. Other than the fact that they were obviously caring and generous people, we don’t know much more.”

The University encourages individuals to consider Lawrence Tech in their estate plans. “We deeply appreciate all those who do. Individuals who notify us of these plans become members of our Legacy Society and are invited to various University events, including Winterlude, as VIP guests,” added Howie. Those who also provide an estimate of the value of their bequest are recognized within the University’s various giving clubs and societies.

## Henry Ford Trade School Alumni Association donates \$750K to LTU

The Henry Ford Trade School Alumni Association donated \$750,000 to create an endowment for need-based undergraduate scholarships in mechanical engineering at Lawrence Tech. It is one of the largest gifts received by the University to establish an endowed scholarship and the largest single gift from an organization. Interest income from the endowment will provide assistance to recipients beginning in fall 2016.

Founded in 1916, Henry Ford Trade School gave underprivileged boys an opportunity to learn a trade and support themselves. Classes emphasized the mechanical arts leading to apprenticeships and journeyman status in the skilled trades, but also included English, history, drafting, chemistry, physics, metallurgy, and bookkeeping, with classwork alternating with shop practice.

The relationship between the school and LTU has spanned decades. In 1932, Ford Motor

Company founder Henry Ford, and his son, Edsel, then Ford president, helped provide the first classroom building for Lawrence Tech. In turn, LTU founder Russell Lawrence created a scholarship fund specifically to attract Ford Trade School graduates.

LTU President Virinder Moudgil, in accepting the gift, noted that numerous Ford Trade School alumni went on to earn Lawrence Tech degrees.

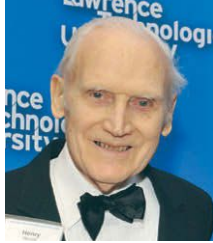
The school produced 8,000 graduates before closing in 1952.

“Through this permanent fund, we will perpetuate and celebrate Henry Ford’s legacy in education and create new generations of highly skilled engineers,” said John J. Graf, president, Henry Ford Trade School Alumni Association.



## Tau Beta Pi establishes chapter endowments; Horldt inaugural donor to LTU chapter

Henry Horldt, BSIE'55, PE, is the inaugural donor to the endowment for Michigan Eta, Lawrence Tech's chapter of Tau Beta Pi, the Engineering Honor Society. His \$5,000 gift will be part of a larger endowment that will help support student travel to the



Henry Horldt

national conference as well as fund the organization's programs and ongoing operation.



A proud member of the society, Horldt encourages other alumni to step up with gifts to fully endow the LTU chapter—which will need gifts totaling \$100,000 to be fully vested. Gifts are accepted at a minimum of \$5,000.

Founded at Lehigh University in 1885, Tau Beta Pi has 242 active student chapters and seeks to acknowledge distinguished scholarship and exemplary character among engineering undergraduates as well as the accomplishments of alumni in the field of engineering.

*Interested donors can contact Sherry Jennings-King at [sherry.jenningsking@tbp.org](mailto:sherry.jenningsking@tbp.org) for more information.*

## Sons honored with memorial engineering scholarship

Sr. Louise Zaplitny of the Sisters of Charity of Cincinnati donated nearly \$100,000 to establish a scholarship at Lawrence Tech.

Zaplitny serves as the chaplain at a nursing home in Dayton, Ohio. Her calling to a religious vocation is the second chapter of a life that previously included marriage and a family. "When my husband passed away in 1991, I decided to look at religious life," said the former accountant whose own sister had been in the convent. "I wanted a career where I could care for people. After much discernment, I went to the

Motherhouse to talk about entering." In 2001, she took her final vows with her two sons in attendance.

Sadly, both of her sons passed away, and she wanted to find a way to memorialize them. She decided to donate the money from their estates to Lawrence Tech because her younger son, Fred, BSEE'98, was a graduate. Recently, she established the Fred and Mark Zaplitny Memorial Endowed Scholarship in the College of Engineering.

Because her husband and sons had

all attended Fitzgerald High School in Warren, Mich., there is a preference

for a Fitzgerald graduate, but the scholarship is open to all men and women engineering students with at least a C average. "I want it to go to someone who may not have the highest grade point, but is demonstrating good effort.

This is a special way to remember my sons, and I am happy that this scholarship will help other young people."



Sr. Louise Zaplitny

## LTU Veterans' Bridge Scholarship funded

An anonymous veteran alumnus has donated \$15,000 toward endowing the Lawrence Technological University Veterans' Bridge Scholarship. The scholarship is intended for students whose Veteran Administration benefits have expired or are about to expire. In addition, it will provide "bridge funds" to offset the financial burden to veteran students who often must wait 60 to 90 days for distributions from the current G.I. Bill. This creates huge upfront financial costs, which often act as a deterrent to veterans wishing to pursue their education.

"This scholarship will be a boon to our veteran students by providing funds

to cover the gap. It is the donor's hope that the students will repay the monies when they are able to, so funding will be available for future students," said Angie Zelenak, philanthropy director. Money from the scholarship can be used for tuition or books.

The scholarship supports active service or veteran students from any branch of the United States Armed Forces and members of the National Guard or the Reserves, who have demonstrated academic achievement and financial need due to the exhaustion of their VA benefits. They must be enrolled full- or part-time, be in good academic standing,

have completed at least one full year or three semesters, and have military documentation stating the need.

LTU is nationally recognized as a Military Friendly University and participates in the Yellow Ribbon Program, which makes funds available for Veteran education programs without an additional charge to the Veterans' G.I. Bill entitlement.

"We are grateful to this donor and those who have honorably served our country," added Zelenak.

*For more information, contact Angie Zelenak, philanthropy director, at 248.204.2216 or [azelenak@ltu.edu](mailto:azelenak@ltu.edu).*



## De Galan scholarship honors Professor Emeritus Maslowski

When Dean De Galan, BSEE'74, was invited to participate in an industry internship project for college credit in his senior year at Lawrence Tech, he didn't realize the profound effect it would have on his entire life.

"Professor Richard Maslowski [later associate dean of the College of Engineering] had arranged for a group of senior electrical engineering students to work on a project at Bendix Corporation—the research facility was just across the street from Lawrence Tech—and I was lucky enough to be one of them," said De Galan. The project gave him real-world work experience with a talented team of Bendix engineers and eventually earned him a patent application for one of the ideas he helped develop.

"I worked there for about six months for college credit; then I was hired as an employee by another Bendix division in Troy. About a year later, I went on to grad school at the University of Michigan," he

recounted. "I always had an entrepreneurial bent, so while I worked toward my master's in electrical and computer science, I also joined with two other local guys and formed a high-tech start-up—the research lab was my basement." Some years afterward, he moved on to form Automotion Incorporated in Ann Arbor, which grew into a premier provider of electronic servodrives—essentially black boxes for controlling specialized electric motors. De Galan sold the company to a Swiss firm in 2000. He retired in 2005.

"Through it all, I remained friends with Dick Maslowski, and I realized that it was his industry connections, encouragement, and support that helped launch me on a successful career. I wanted to acknowledge my indebtedness to him, so my wife and I established the Dean V. and Cynthia De Galan Scholarship in Honor of Professor Richard Maslowski," he said. It is designed to provide financial assistance to working students (at least 20 hours a week) majoring



*Dean and Cynthia De Galan*

in electrical engineering.

Maslowski retired as professor emeritus in 2006.

De Galan and his wife became foster parents after raising their daughter, Elizabeth, now an accomplished business executive in New York. Later, De Galan worked as a volunteer in the Washtenaw County courts, serving as an advocate for abused and neglected youth who often were without a stable home life.

Longtime contributors to Lawrence Tech, the De Galans hope the scholarship will not only be a tribute to a great man but also assist industrious students in reaching their academic goals.

## Sims creates legacy of giving, establishes third LTU scholarship

Early on, noted Detroit architect Howard Sims realized the importance of helping others achieve their dreams.

He has established three scholarships at Lawrence Tech—the Howard F. Sims Graduate Architectural Fellowship in Alternative Energy Applications, the Sims Varner Scholarship, and, most recently, the Cleveland "Stan" Smith Memorial Scholarship, honoring a former Lawrence Tech student who worked for Sims over the years and recently passed away. "I wanted a way to honor him," explained Sims, noting the scholarship targets architecture students who come from Jamaica—Smith's home.

"There are so many things about Lawrence Tech that I admire," he added. "I've hired many outstanding LTU graduates, one of my partners was an alumnus, and I've enjoyed longstanding friendships with both Dick Marburger (president emeritus) and Virinder Moudgil, the current president of Lawrence Tech."

Now internationally recognized, Sims

got his first taste of architecture in junior high. "I needed an elective class," he remembered. "I'd already taken all the music electives I could, so I had to find something else. I signed up for this drafting class. I liked it. It came pretty easily to me. Then adults started saying, 'Hey, you're pretty good at this.'"

It planted the seed.

After high school, he briefly considered architecture school but the three Michigan options—the University of Michigan, the University of Detroit, and Lawrence Tech—were all beyond his family's reach financially. After a short stint at another university, he dropped out and joined the Navy, where he served for five years in the Construction Battalion Corps—affectionately referred to as the Seabees.

"When I was discharged, I had three things going for me," he said. "I had two years' eligibility toward sitting for the architecture exam. I had advanced standing in the architecture program at U of M, and I



*Howard Sims*

had the G.I. Bill."

It was a winning combination that launched a stellar career. He hung out his shingle

in 1964 and grew his company—now SDG Associates—into a comprehensive architecture, engineering, and planning firm with a portfolio of work that tops \$3 billion. He has created some of the most iconic projects in the region, including the Charles H. Wright Museum of African American History, a major expansion to Detroit's Cobo Hall, the School of Social Work at the University of Michigan, and facilities at Detroit Metropolitan Airport.

Today, Sims and his wife, Judith, an educator, are retired and enjoying their children and grandchildren. They split their time between Detroit and Scottsdale, Ariz.

For Sims, the seed that was planted long ago has blossomed into a life well lived and a chance to help others succeed.

## LTU-Johnson Controls partnership advances vehicle energy storage research, goes 'beyond the battery'

Johnson Controls and Lawrence Tech expanded their corporate partnership when the Johnson Controls Vehicle Engineering Systems Laboratory was dedicated on campus in May.

LTU faculty and students will test advanced battery systems aimed at helping automakers meet increasing fuel economy and emissions standards. Funding from Johnson Controls outfitted the lab with state-of-the-art equipment, including a dynamometer with a "robot driver" that is used to test vehicles in different controlled driving environments and helps manufacturers understand how best to manage battery energy and power transfer in the vehicle.

The world's leading supplier of automotive batteries, Johnson Controls manufactures everything from the current batteries used in vehicles to the power systems for fully electric cars. "Battery technology has changed more in the last five years than it has in the last 100 years," said MaryAnn Wright, vice president of engineering and product development at Johnson Controls Power Solutions. "We intend to leverage the best minds at the University, harvest those good ideas, and translate them into the products we bring to market."

Wright, who also serves on the Lawrence Tech Board of Trustees,

added, "The work we are doing with LTU is important because we can develop, optimize, and validate battery systems inside the complete vehicle environment to meet our customers' future needs."



MaryAnn Wright (L) and Lisa Bahash, both of Johnson Controls, with professor Giscard Khoury in the new laboratory

Johnson Controls, a global multi-industrial company, will use the lab to test its recently announced 12-volt Lithium-ion battery in its prototype Advanced Start-Stop vehicle. The technology can improve fuel economy and emissions by up to 8 percent. The company's 48-volt Micro Hybrid system, which gets up to 15 percent more fuel economy, is also part of the research and development effort with

Lawrence Tech.

The partnership, which began in 2014, also focuses on developing the next generation of engineers by involving them in the research projects and teaming them with LTU faculty and Johnson Controls technical experts. "These partnerships provide a strong talent pipeline for scientists and engineers interested in careers that will shape the way we drive our vehicles and use natural resources," Wright said.

"The partnership with Johnson Controls is part of a broader effort by Lawrence Tech to respond proactively with innovative academic research programs to the needs of our corporate partners and students," said Virinder Moudgil, president. "We are helping these corporate partners develop market-based solutions, while providing students with real-world experiences and skills."

"Our students are eager to do the testing and report out the results," said Nabil Grace, dean, College of Engineering. "This strengthens their knowledge, creates a competitiveness, and makes them much more marketable when they graduate."

The Johnson Controls Vehicle Engineering Systems Laboratory is located in LTU's Applied Research Center.

## It's NEVER too early to plan for the Tech Invitational

The 12th annual Tech Invitational is set for Monday, Aug. 10, at Meadowbrook Country Club in Northville. The tournament is a steady fundraiser for scholarships and student programs at Lawrence Technological University. Last year's event raised more than \$50,000.

Sponsors are already lining up to support the effort. But many more are needed.

For more information or to sign up as a sponsor, contact Robin Leclerc, director of university special events and services, 248.204.2203 or [reclerc@ltu.edu](mailto:reclerc@ltu.edu).

### Sponsors on tap so far

- Presenting Sponsor **DTE Energy**
- Cocktail Reception Sponsor **Johnson Controls Power Solutions**
- Brunch Sponsor **The Remington Group**
- Gift Bag Sponsor **DENSO**
- Team Photo and Swing Analysis Sponsor **Michigan First Credit Union**
- Beverage Station Sponsor **JPRA Architects**
- Beverage Cart Sponsor **JPRA Architects**
- Beverage Cart Sponsor **News/Talk 760 WJR**
- Hole-in-One Contest Sponsor **ITC Holdings**
- Foursome and Hole Sponsor **St. John Providence**
- Hole Sponsor **CDW-G**
- Hole Sponsor **Fred Ciampa**





# Hudson Webber Foundation approves \$300K grant to support LTU's Detroit Center, Design Incubator



Lawrence Tech's new Detroit Center for Design and Technology with its innovative Design Incubator.



The Hudson Webber Foundation, a longtime supporter of the City of Detroit and southeast Michigan, announced a \$300,000 grant to help underwrite Lawrence Tech's new Detroit Center for Design and Technology (DCDT) with its innovative Design Incubator.

The anchor tenant of a 30,000-square-foot, three-story commercial building in Midtown Detroit, Lawrence Tech will house several existing LTU student programs in the new facility. The Design Incubator will educate young, creative talent and foster innovative design thinking. At the same time it will promote the commercialization of art and design ideas through active coaching and collaboration with

industry professionals. In addition, the DCDT will provide students with access to state-of-the-art technology.

The Hudson Webber Foundation traces its heritage to the family retail dynasty that created the J.L. Hudson Company and is a tribute to the generosity of generations of Hudsons

and Webbers that made community engagement a cornerstone of their business philosophy.

"The DCDT and the Design Incubator are well positioned to be a dynamic catalyst for attracting and developing top young talent and growing Detroit's economy," said LTU Professor Amy Deines, DCDT executive director and associate dean of the College of Architecture and Design. "The fusion of budding creative talent with the experience of seasoned professionals should spark the next wave of energetic, committed urban entrepreneurs in Detroit."

***"The DCDT and the Design Incubator are well positioned to be a dynamic catalyst for attracting and developing top young talent and growing Detroit's economy."***

***—LTU Professor Amy Deines, DCDT executive director and associate dean of the College of Architecture and Design***



FOUNDATIONS



## Winterlude 2015 at Royal Park Hotel honors donors, features venue architect alum Saroki

The charming Royal Park Hotel in Rochester, Mich., was the site of Winterlude 2015, the annual donor recognition event for Lawrence Technological University. New inductees into the various giving societies were acknowledged. (See sidebar, page 7.) This year there was an added feature to the program, as Victor Saroki, BSAr'79, BAR'80, HD'08, the architect who designed the venue, was on hand for a meet-and-greet to discuss his work before the formal festivities began.

"The old world elegance of the Royal Park was a real draw for us," said Robin Leclerc, director of university special events and services,

"but because this popular facility also was designed by one of our most acclaimed alumni—architect Victor Saroki—it gave the entire evening a special significance."

This year's Winterlude included



Victor Saroki



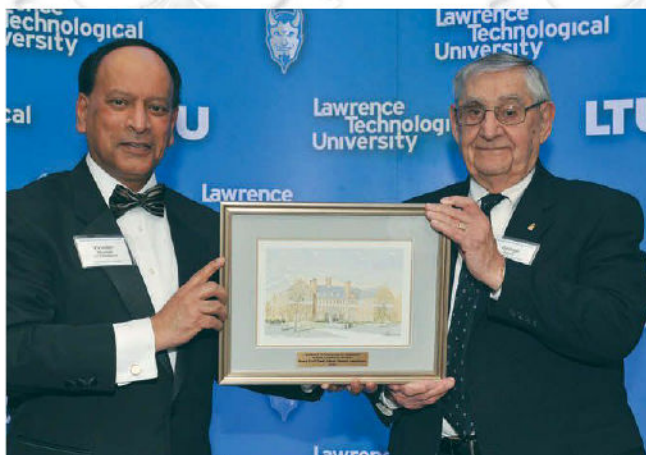
Emily Votta

a University-produced video about Lawrence Tech and its ongoing achievements and individual recognition of donors in attendance whose contributions over the last year qualified them for entry into new giving societies.

The more than 200 attendees were treated to a filet mignon dinner and novelty coffees-to-go at the end of the evening.

Dennis Howie, interim vice president of university advancement, acted as emcee and Virinder Moudgil, president, was on hand to congratulate the honorees. Student speaker Emily Votta, BSME'14, BAECA'15, shared her thoughts.

### Russell Lawrence Society



George Banda accepted on behalf of the Henry Ford Trade School Alumni Association.

### E. George Lawrence Society



Hamid Servati, ServoTech Industries

### 1932 Society



Henry Horldt



Karen Mitchell



Lindsay Lewis, Synergieering Group, LLC



**Trustees Society**



*Gordon and Susan Collet*



*Jeffrey Stirrat and Sandra Uridge, the George Stirrat family*

**Benefactors Society**



*Adam Jefferies, Faurecia*



*Jazz was part of the evening's entertainment and all guests received a gift.*



**Presidents Club Lifetime**



*Pamela Hoffman and Sue Longstreet, AAUW-Birmingham Branch*



*Eugene and Sara Jane Bosetti*



*John Huber, Dupont*



*Wendy Holforty, Kathi Moxley, Pearl Holforty, Ralph Moxley, and Todd Holforty, the Clifford Holforty family*



*Jan and Terry Measel*



*Bob Godfroid*



*Donna and William Polom*



*Gary Mann and Dave Elberson, SCI Floor Covering, Inc.*

**2015 Inductees**

**Ed Donley Society**

*Mink Estate*

**Russell Lawrence Society**

*Henry Ford Trade School Alumni Association*

**E. George Lawrence Society**

*The Coleman Foundation  
Donley Foundation  
Estate of Chauncey Norton, '37 DIT  
Westport Fuels*

**1932 Society**

*Mr. Henry B. Horltd, BSIE'55  
Mrs. Karen Mitchell  
Synergeering Group, LLC*

**Trustees Society**

*Mrs. Susan A. Collet, BSME'80  
Mr. Ralph, BSEE'71, and Mrs. Carole Pence  
Mr. Howard Sims  
Estate of George Stirrat, BSME'52*

**Benefactors Society**

*Mr. Thomas and Mrs. Elaine Braun  
Mr. Thomas S. Brennan, BSCE'76  
Estate of Pete Denegal  
Faurecia  
Mr. Alan Haase, BSEE '82  
IEEE  
Michelin North America  
Mr. Craig, BSBA'79, and Mrs. Lori Rasche*

**Presidents Club Lifetime**

*AAUW-Birmingham Branch  
Mr. Eugene, BSEE'55, and Mrs. Sara Jane Bosetti  
CDW-G  
CHI  
Mr. Wayne, AEEt'63, and Mrs. Janet Clinger  
Dell  
Mr. Vincent, BSEE'79, and Mrs. Frances Dow  
Dupont  
The Family of Clifford W. Holforty  
Mr. Terry, BSAR'61, and Mrs. Jan Measel  
Mr. John, BSIM'75, and Mrs. Kathy Moody  
Dr. Alison A. Moy  
Mr. George, BSIE'61, and Mrs. Virginia Parker  
Mr. Ketan, BSME'85, and Mrs. Alicia Patel  
PepsiCo, Inc.  
Mr. William, BSCE'76, and Mrs. Donna Polom  
SCI Floor Covering, Inc.  
Mr. Kenneth, BSAR'85, and Mrs. Gina, BSAR'89, Van Tine  
Mr. John, BSEE'70, and Mrs. Kay Williams*



## Pences make Denver home, honor their Detroit, LTU roots

For Ralph Pence, BSEE'71, the U.S. Air Force introduced him to two things that would heavily influence his life—the field of electrical engineering and the city of Denver.

“I first learned about electrical engineering in the service, and I really just took to it. Later, I was stationed in Denver and fell in love with the place. When I finished my degree in electrical engineering at Lawrence Tech, I knew I wanted to go back and work in Denver,” he said. “As it got closer to graduation, I started taking trips out there to look for opportunities. I told my wife, Carole, that if she saw me get off the plane wearing a cowboy hat, she’d know that I had landed a job. On one trip back, I was wearing that cowboy hat.”

For the Pences, life has been a successful collaboration. After working for several companies in Denver, Ralph founded Ralph Pence

Associates, a manufacturers’ rep agency, and Carole, after she retired from a successful career in human resources, served as office manager. They recently sold the company after 22 years of solid growth. “We owe a lot of our success to what I learned at Lawrence Tech,” Pence said. Their gratitude was reflected in a gift of \$37,500 to the University to be divided between the College of Engineering and the Taubman Engineering, Life Sciences, and Architecture Complex.

Ralph, who worked full-time while pursuing his degree, recalled that several coworkers at General Electric were Lawrence Tech grads, and they encouraged him to enroll in the program because it was tailored to working adults. “It took me seven years to finish, but I’m glad I took their advice,” he said. He also worked at National Bank of Detroit, where he



Ralph and Carole Pence

was project manager for the expansion and renovation of the branch located in the then General Motors Building.

These days, when the Pences return to their Detroit roots they are excited to see the changes at Lawrence Tech. “We’re very impressed with what’s going on. I remember my time at Lawrence Tech—and especially the wonderful professors like Dr. Richard Marburger—and I want to support that for future students,” he added.

## Alumni giving on the rise; reunion reps reach out to fellow graduates

Alumni giving at Lawrence Tech has reached a 10-year high with donations topping \$185,000 for the Annual Fund and individual college funds in the last fiscal year.

“We’re very grateful to our alumni for their ongoing support of Lawrence Tech,” said Lauren Morris, director of alumni relations and annual giving. “They have responded with enthusiasm and generosity to our appeals.”

In addition to solicitations for the Annual Fund, the True Blue Challenge is an effort that reaches out to members of milestone graduating classes (this year, those ending in zero or five) and asks them to consider supporting their alma mater. Several alumni stepped up to act as representatives for their graduating years—Henry Horltdt, BSIE’55; John Petty, BSME’65;

Susan Collet, BSME’80; and Michael Darga, BSCE’85—and wrote personal letters to their classmates encouraging them to participate. The class with the highest total giving and the highest participation rate will be invited to a complimentary reception during Homecoming 2015 hosted by President Virinder Moudgil.

Volunteers currently are being sought to serve as class representatives for next year’s True Blue Challenge for graduating years ending in one or six. For more information visit [www.lawrencetech.net/trueblue](http://www.lawrencetech.net/trueblue).

Other fundraising initiatives included a spring phonathon for the individual dean’s funds at the College of Engineering, the College of Arts and Sciences, the College of Management, and the College of Architecture and

Design. Letters also were sent that featured stories of students from each of the colleges. Read more at [www.lawrencetech.net/students](http://www.lawrencetech.net/students).

A sustainer mailer sent on behalf of the Alumni Association earlier this year raised \$30,000, which helps the organization host a variety of alumni events throughout the year and provide other benefits free of charge.

“The message we want to share with our alumni is that there are a variety of ways to give to Lawrence Tech and that any gift of any amount is appreciated,” Morris added. “We want to encourage alumni to get involved and stay involved with Lawrence Tech.”

For more information, contact Lauren Morris, director of alumni relations and annual giving, at 248.204.2309 or [lmorris2@ltu.edu](mailto:lmorris2@ltu.edu).

**“We’re very grateful to our alumni for their support of Lawrence Tech.”**

—Lauren Morris, director of alumni relations and annual giving



## Cisler Lecture features U-M mathematics professor, breakthrough research in tumor growth modeling

Trachette L. Jackson, mathematics professor at the University of Michigan, shared her breakthrough research in mathematical modeling of phenomena in the biomedical sciences—in particular in the study of tumor growth—as the 19th Walker L. Cisler Memorial lecturer at Lawrence Tech in April.

Only the second African-American woman to receive the prestigious Alfred P. Sloan Research Award in Mathematics, Jackson described her work in mathematical oncology that has earned her international acclaim. In her lecture, “Mathematical Biology and the Revolution of 21st-Century Science,” she discussed how mathematics and high-powered computing are being used to tackle some of the biggest biological challenges facing our world today.

Jackson joins a distinguished list of researchers and scientists who have been invited to Lawrence Tech as part



(L-R) LTU President Emeritus Richard Marburger, President Virinder Moudgil, speaker Trachette Jackson, LTU Trustee John Petty, and Provost Maria Vaz.

of the annual lecture series that honors Walker L. Cisler for his leadership at Detroit Edison from 1954 to 1971 and his dedication to improving the quality of life for people everywhere.

The series is sponsored by the Holley Foundation, a private, grant-making organization that supports educational and family initiatives in Southeast Michigan.

## Grezliks support Blue Devil Motorsports with time, money, encouragement

Ken, BSME’78, and Margaret Grezlik aren’t your typical Blue Devil Motorsports boosters. The retired couple (he from Johnson Controls, she from IBM) has “adopted” the Lawrence Tech Formula SAE team after being introduced to the group by their niece Stephanie Shevenock Campbell, BSME’13.

“In 2012, we went down to the Aero SAE competition in Georgia, when Stephanie was competing with the Lawrence Tech team, and we were hooked,” Ken said. For the last four years, the Grezliks have volunteered at the Michigan Formula SAE competition, working registration, manning the scales for weigh-in, evaluating sound, helping with timing and scoring, and encouraging all the competitors. They have traveled to Nebraska—on their own dime—to cheer on the teams in the Formula SAE Lincoln competition.



The Grezliks with the LTU Formula SAE team

The Grezliks recently supported Blue Devil Motorsports with a significant donation that allowed them “to ride along with the team” as Margaret’s name was proudly emblazoned on the Formula car—but that’s just the tip of their philanthropic iceberg. Over the years, they also have donated to the LTU Annual Fund, Alumni Association Membership Fund, and Engineering College Development Fund, among others; and in 2008, they established

an endowed scholarship inspired by Stephen Davis, the former dean of engineering at Lawrence Tech.

“It’s exciting to watch these Lawrence Tech students work so hard. They’re polite, involved, and eager to learn—I tell them all the time that when I was working these were just the type of folks I liked to hire,” added Ken.

He recalled that he was working at General Motors and had just completed a two-year degree elsewhere, when his boss told him, “You’re not done. Lawrence Tech is having registration, get over there and sign up.” “I did, and I am so grateful. As an adult working full time, there really was no other option for me. Now, I want to give back and help others succeed,” he said.

To support Blue Devil Motorsports, contact Howard Davis, director of corporate and foundation relations, at 248.204.2316 or [hdavis@ltu.edu](mailto:hdavis@ltu.edu).



## Donors designate funds to buy books for library

Recently the LTU library was notified that Caroline McCollom, who retired as a reference librarian in 1998 after 17 years with Lawrence Tech, left a stipend in her will to be used to purchase architecture books for the library.

“When Caroline joined the LTU reference librarians in 1981, she was a perfect fit for us, as she had broad knowledge of a variety of subjects and a strong interest in architecture and the arts,” said Gary Cocozzoli, library director. “We thought books that explore architecture with an emphasis on the important role that women play in the architecture and design professions, would be the perfect way to remember her.”

In addition, the library received a donation from former LTU administrator and architecture alumnus Gary Kecskes in memory of his parents, Albert and Stella Kecskes. This donation also will be used for books on architecture.

“Dedicating a book in the LTU library to honor the memory of someone or to celebrate a milestone



Architecture students (L-R) Jessica Gilbert, Stephanie Kortman, Devika Sangurdekar, and Yu-shin Li examine books on women in architecture donated in memory of Caroline McCollom.

in someone’s life is an ideal way to recognize a person special to you,” he added. A bookplate is affixed to all memorial or dedicated items.

To provide funds for books, contact the Office of University Advancement at 248.204.2300 or [www.giving.ltu.edu](http://www.giving.ltu.edu) or Gary Cocozzoli at 248.204.3000 or [gcocozzoli@ltu.edu](mailto:gcocozzoli@ltu.edu).

**“Dedicating a book ... to honor the memory of someone ... is an ideal way to recognize a person special to you.”**

—Gary Cocozzoli, library director

## AIAS holds annual silent auction, raises \$5,000 for ‘Freedom by Design’

The American Institute of Architecture Students (AIAS) chapter at Lawrence Tech held its annual silent auction and raised more than \$5,000 to help students plan and execute handicapped access projects free-of-charge for needy area residents as part of its Freedom by Design initiative.

Students make modifications to enhance the homes of low-income and disabled individuals by addressing their struggles with everyday tasks such as bathing, ascending stairs, and opening doors. The priority is to improve the people’s safety, comfort,



AIAS silent auction raised \$5,000.

and dignity.

“With Freedom by Design, we can get out of the studio, have real-world professional experience, and do some good for our community,” said Samantha Doherty, BSAr’15, who served as the most recent student chapter president. “Each year, we select one large project and several smaller ones to complete.”

Some of the funds raised at the auction also are used to send student representatives to the annual American Institute of Architects professional conference.



## LTU Veterans Group hosts fundraiser

An annual fundraiser for the LTU Veterans Group raised \$1,100 for its scholarship fund.

The Rochester Mills Brewery’s production facility in Auburn Hills, Mich., which continues to be a generous supporter of the group, was the site of a dinner and “beer pairing” that attracted 90 attendees in April.

Founded in 2013 when the

government sequester threatened to eliminate veterans’ education benefits, the group seeks to bridge the gap between benefits and the actual cost of a college education. “We owe it to these veterans for their courage and sacrifice to help them reintegrate back into civilian life; helping them achieve their educational goals is an important part of that reintegration and

future success,” said Richard Bush, executive director of eLearning, who serves as the group’s academic advisor and is a veteran himself.

There are nearly 80 current LTU students who are veterans.

For more information on the LTU Veterans Group, contact Richard Bush at 248.204.2485 or rbush@ltu.edu.



## President’s Banquet recognizes scholarship recipients, donors, Donley Distinguished Graduates

The annual President’s Banquet once again brought together scholarship recipients and their respective donors in a longstanding Lawrence Tech tradition. Seniors were acknowledged and presented with a certificate and pen; and the two latest Ed Donley Distinguished Graduate award winners—Cameron Beyer, BSCS’15, BSHu’15, MSCS’15, and Souheila Hachem, BSMCB’15—were introduced. (See sidebar, right.)

Provost Maria Vaz acted as emcee, and President Virinder Moudgil and

Dennis Howie, interim vice president of advancement, spoke. In addition, Jeff Balazs, BSME’98, president of the Alumni Association, welcomed graduating seniors into the ranks.

Held at the Shriners Silver Garden Event Center in Southfield, the event attracted 240 attendees.

“This is a wonderful way to show support and share time across

generations,” added Robin Leclerc, director of university special events and services. “Bringing scholarship recipients and donors together is an honored end-of-the-year event.”

### Ed Donley Distinguished Graduates shine

*Cameron Beyer completed three degrees: Bachelor of Science in Computer Science, Bachelor of Science in Humanities with a Minor in Spanish, and Master of Science in Computer Science. Part of LTU’s Honors Program, he achieved a perfect 4.0 GPA.*

*Beyer also was a Buell Scholarship recipient. He had been active on campus and in the community, tutoring high school students through the Boys & Girls Club of Southfield and volunteering for Greening of Detroit, Gleaners Community Food Bank, and Vista Maria.*

*He served as president of the Lawrence Tech Honor Society, 2012–15.*

*Souheila Hachem graduated with a Bachelor of Science in Molecular and Cell Biology and this fall will be a Doctor of*

*Pharmacy candidate at Wayne State University. She is a member of the Lambda Iota Tau Honor Society and has been on the Dean’s List since December 2011. She served as a senator to Student Government for the College of Arts and Sciences, president of the LTU Life Science Association, and secretary of LTU’s American Chemical Society chapter.*

*Hachem helped organize Experiment Day and Geek Week and sat on the Student Advisory Board for the Association of American Colleges and Universities TIDES (Teaching to Increase Diversity and Equity in STEM) Initiative.*

*She served as a first-year mentor to freshmen and volunteered at Children’s Hospital of Michigan, Greening of Detroit, American Red Cross, and the Detroit Zoo.*

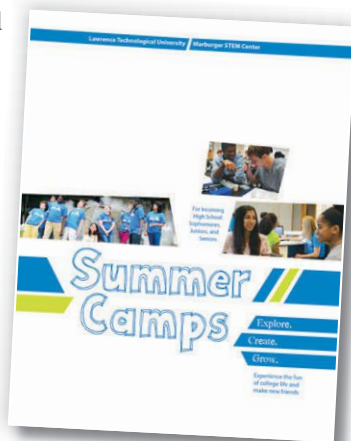


Hachem and Beyer also received commemorative rings.

## Anonymous donor funds scholarships for LTU high school summer camps

An anonymous donor stepped up with funding to provide scholarship assistance to high school students who want to attend LTU's extremely popular academic summer camps.

These week-long residential- and day-student programs are offered through the Marburger STEM Center and taught by full-time professors from Lawrence Tech's esteemed faculty. Camps are offered in everything from



engineering and graphic design to biotechnology and provide students with a close-up look at the latest innovations in modern labs and studios.

"We are always trying to find ways to make these programs affordable for families and are extremely grateful for this gift, which helps offset the costs," said Lisa Kujawa, assistant provost for enrollment, who coordinates the program.

## Godfroid names scholarship for parents, remembers Professor Crist's influence

Bob Godfroid, BSCh'87, remembers how his parents, Pete and Rose Godfroid, encouraged him to get a college education. "We didn't have much money as my father grew his business, but it was understood that we would find a way," he said.

For Godfroid, the path led to Lawrence Tech, where despite an early interest in architecture, he went on to study chemistry. "My parents helped mightily, but still it was tough. One day, Professor [Jerry] Crist called me into his office and asked if I would like a scholarship. I was floored. I accepted the Ryan Scholarship, and it changed the trajectory of my college career. I know I would have graduated eventually; but without the scholarship it would have been a lot harder and taken a lot longer."

He also credits the late Professor Crist with fostering his interest in the graduate program at Ohio State University, where he went on to earn a PhD in 1994 working with the same academic advisor that Crist had had when he

earned his advanced degree there.

Today, Godfroid works as director of food processing discovery at PepsiCo. He and his wife, Susan, have two children—Nick, 17, and Sabrina, 15—and live in McKinney, Tex., but he never has forgotten his early days of working and going to school and trying to make it all happen.

Last year, he wanted to contribute to the Jerry Crist memorial scholarship that had been established, but he learned

that it already was fully vested. "So I decided to acknowledge my parents' encouragement and support with The Dr. Robert and Susan Godfroid Endowed Scholarship in Honor of Pete and Rose Godfroid—and made my inaugural \$5,000 payment," he said.

A self-proclaimed science nerd, Godfroid said he founded the scholarship "with the hopes of someday giving another young person—especially one with an interest in science and some financial need—a boost along the way."



Bob Godfroid

***"The Ryan Scholarship ... changed the trajectory of my college career ... without the scholarship it would have been a lot harder and taken a lot longer."***

—Bob Godfroid, BSCh'87

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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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# Play your part in LTU's future

**Lawrence Tech's commitment** to academic excellence is exemplified in the new A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex that will open in August 2016.

*The steel structure for the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex was completed in early June.*

The new building has benefited from an \$11 million lead gift from a former student, the late A. Alfred Taubman, and serves as a testament to his commitment to Lawrence Tech students. Now, further support is needed to help complete the far-reaching vision for this building, to finish the first phase, and move on to additional phases as quickly as possible.

LTU's Board of Trustees and the Office of University Advancement are committed to complete construction without incurring debt or using tuition dollars. To do so requires the support of all Lawrence Tech alumni and friends.

**For more information**, including naming opportunities for facilities in this building, contact Dennis Howie, interim vice president for University Advancement, at **248.204.2304** or visit **[www.ltu.edu/taubman](http://www.ltu.edu/taubman)**.



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T H E B A C K P A G E

## Forbes receives honorary degree and gives keynote at Commencement

Steve Forbes, chairman and editor-in-chief of Forbes Media, was awarded an honorary degree and delivered the principal address at Lawrence Technological University's 83rd Commencement ceremonies held at the Ultimate Soccer Arenas in Pontiac in May.

He was awarded a Doctor of Business Administration *honoris causa*, joining 760 Lawrence Tech students who received undergraduate, master's, and doctoral degrees during the 2014–15 academic year.

Forbes Media's flagship publication, *Forbes*, is the nation's leading business magazine, with a circulation of more than 900,000. Various editions of the magazine together reach a worldwide audience of more than five million. Steve Forbes writes editorials for each issue of the magazine, and he is also a prolific book author, commentator, and economic prognosticator known for the accuracy of his forecasts.

Under his leadership, the company has launched a variety of new publications, websites such as forbes.com, and businesses worldwide. It also publishes investment newsletters.

Forbes told the graduates that it is knowledge that separates us and all the abundance we have created in modern society from our Stone Age ancestors. "The real source of wealth is not physical things ... it's the human mind," he said.

He pointed out that it was human ingenuity that turned oil into something we cannot live without and turned sand into the silicon chip on which the digital revolution is based.

He encouraged graduates to be open to finding new ideas where they least expect them. Instead they should expect the unexpected and be ready to respond when life throws them a curveball.

A good way to do that is to follow Peter Drucker's advice that businesses – and also individuals – should always focus on



*Commencement speaker Steve Forbes (center) is joined by (left to right) Douglas Ebert, chairman of LTU's Board of Trustees; Trustee John Petty, this year's Alumni Achievement Award recipient; President Virinder Moudgil; and Provost Maria Vaz.*

what is it that they are trying to accomplish. "What is your mission? ... If you focus on that, you won't get caught

up or hung up when the means to achieve something changes," he said.

His own family's business was a print publication empire that could have been destroyed by the Internet. The company's response was to embrace online publishing, which has allowed Forbes to draw on the knowledge of more than a thousand online contributors and reach millions of readers online every month.

The lesson for his publication company was that the mission didn't have to rely on print publications. "We [at Forbes] are about entrepreneurial capitalism ... the ability of people to improve their lot in life," he said.

Forbes was introduced to the Commencement audience by LTU President Virinder Moudgil. They met when Moudgil was invited to introduce him at the Detroit Economic Club last year. Moudgil noted that the Forbes family has an historical connection with the University.

"Some 82 years ago his grandfather, B.C. Forbes, in his newspaper column praised the new incubators for emerging businesses that were part of the creation of Lawrence Technological University. Those business incubators, the first in the nation and a then-revolutionary idea of Lawrence Tech founder Russell Lawrence, were aimed at encouraging new enterprise during the Great Depression," Moudgil said. "We are proud that Steve's grandfather helped make Lawrence's innovation widely known and ultimately, a worldwide success." □EP