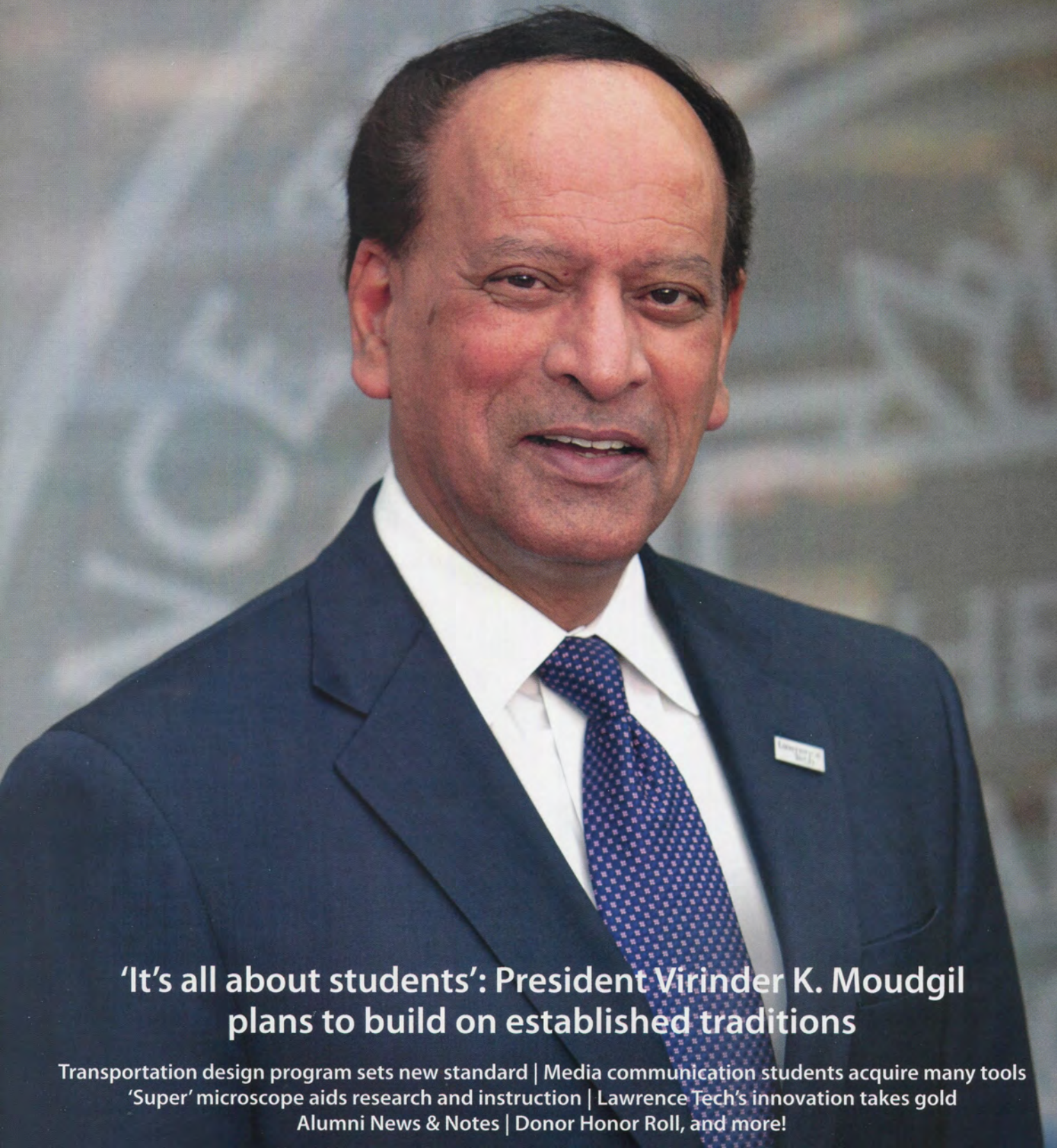


Lawrence Tech[®]

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Summer 2012



'It's all about students': President Virinder K. Moudgil plans to build on established traditions

Transportation design program sets new standard | Media communication students acquire many tools
'Super' microscope aids research and instruction | Lawrence Tech's innovation takes gold
Alumni News & Notes | Donor Honor Roll, and more!

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On the cover: Virinder K. Moudgil is the seventh president of Lawrence Technological University. He plans to build on longstanding traditions at the University as he focuses on student achievement and success. (Photo by Rick Smith)

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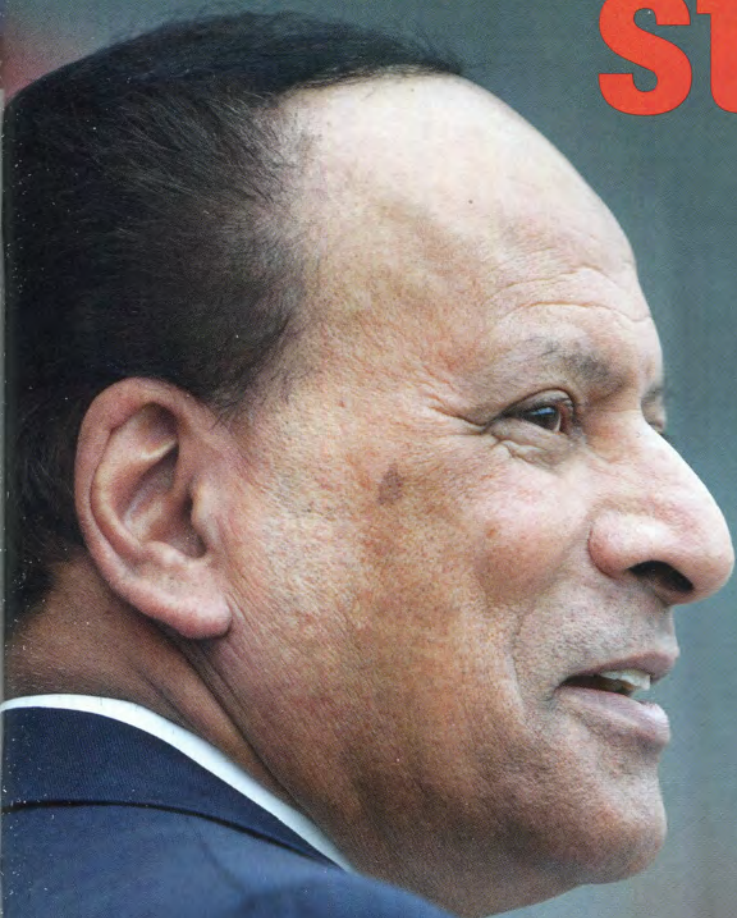


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‘It’s all about students’



Virinder K. Moudgil, Lawrence Tech’s new president, sees a focus on student achievement and success as the centerpiece of the University’s future and his work.

The photo that hung prominently above his chair in his former office at Oakland University (OU) served as a constant reminder of what’s important to Virinder K. Moudgil. He’s pictured surrounded by all the students who worked in his research laboratory.

“My passion is my lifelong involvement with students,” he said. “They are the driver for me to take on this responsibility at Lawrence Technological University. No matter what we do collectively or individually, the beneficiaries ultimately should be our students. If they are served well, get the best education possible, get the best internships and real-world experiences, they are going to be successful alumni. It’s all about students. That is why we’re here.”

Moudgil’s appointment as the University’s seventh president, effective July 1, culminates a 10-month national search that attracted a large number of outstanding candidates and was aided by R. William Funk and Associates, a leading higher education executive search firm based in Dallas.

A 13-person selection committee led by Trustee Doug Ebert and representing faculty, students, alumni, staff, community leaders, and trustees narrowed the pool to three. Lawrence Tech’s full Board of Trustees made the final selection.

Moudgil, most recently OU’s senior vice president and provost, led academic affairs there since 2001. From 1994–2001, he chaired OU’s Department of Biological Sciences. He joined its faculty in 1976.

“Dr. Moudgil has a strong record of leading exemplary academic progress and program development,” said Lloyd Reuss, chairman of Lawrence Tech’s Board of Trustees. “He is an excellent communicator, and we anticipate that he will accelerate Lawrence Tech’s advancement and services to students and the professions across Michigan and the nation.”

Meaningful impact

Praise for Moudgil’s leadership and mentorship at OU has been as positive as it is effusive. (See www.oakland.edu/moudgil.)

“One simply cannot overstate the meaningful impact Dr. Moudgil has had both as a professor and as our chief academic officer,” said Gary D. Russi, OU’s president. “We will face a great challenge in finding someone as insightful, accomplished, and passionate to fill his position.”

He called Moudgil “one of the most influential and most respected faculty members and administrators” in Oakland’s history.

OU Board of Trustees Chair Henry Baskin said that Moudgil’s “legacy will live for generations to come. As the senior academic administrator, he was genius, historic, and extremely well respected by his colleagues. He deserves all the good fortune and leadership, which will be his at Lawrence Technological University.”

An OU news release included comments from Amelita Sanchez, a longtime research assistant and a doctoral candidate at Oakland, who called Moudgil “the type of teacher everyone should have.”

“Lawrence Technological University has a heritage of excellence and a strong mission of developing leaders through innovative and agile programs,” Moudgil said. “I look forward to working with the entire Lawrence community, and to helping expand our base of new students, active alumni, involved donors, and industry partners. I am impressed with and passionate about the University’s mission and commitment to public good.”

Moudgil grew up in India as it transitioned to independence from British rule. He has lived in the United States with his

wife, Parviz Gandhi Moudgil, for 39 years. Their two adult children, a son, Rishi, and daughter, Sapna, were born here and graduated from Rochester High School. He received his PhD in zoology-biochemistry from Banaras Hindu University, ranked the top university in India.

His family included six brothers and four sisters. His mother oversaw their home and his father was an attorney active in India's independence movement and engaged in improving community services.

"My father was a follower of Prime Minister Nehru, a disciple of Mahatma Gandhi's teachings, and every day at home when I was growing up there were stories told about the freedom struggle, about self-esteem as citizens, and independence and self-reliance. My father was teaching that education was the only way that post-British India would be rid of poverty and backwardness, and that our 'job' as young people was to seek opportunities based on our education."

Wide-ranging interests

Moudgil developed a wide range of interests, including music, theater, and British and Indian history. He learned to speak Punjabi, the language of his home state of Punjab; Urdu, then used in Indian courts; Hindi, India's national language; and English.

"My father was well read and we had newspapers and magazines in our home in all languages. One from the United States Embassy was *Span* magazine that gave me the first glimpse of life in America. We felt America was a paradise; you had these long 18-foot Chevys with fins, back yards, front yards, grocery stores, nobody's cheating, everybody's honest, everything you want, you work hard – all the beauty of America was delivered through that magazine. It built a desire to go to America."

It was his mother who influenced him



Kelly Maximuik (left) and Jackie Osborn, both enrollment services associates at the University's DTE Energy One Stop Center, greet President Moudgil during one of his first campus visits. Students using the One Stop Center can complete numerous transactions and receive answers relating to registration, transcripts, payments, financial aid, and more.

to pursue a career in the life sciences.

"At the time in India there was no professional theater or sports. I was captain of my high school cricket team and played college cricket, but my mother was correct in telling me that none of what I was doing was going to lead me to a profession."

In a general college biology class, Moudgil was able to repeatedly dissect an insect with great dexterity. "My professor could not believe it. He said, 'You have the steadiest hands I have ever seen. You should be a surgeon.'"

Moudgil's subsequent plans for medical school were derailed by the India/Pakistan war and political changes in the country. Instead, he pursued biochemistry, worked many long hours in labs, and published papers in the Netherlands, England, and the U.S. about how estrogen, the so-called female hormone, affects the brain of lab animals. At age 28 and by that time married, he took advantage of a post-doctoral fellowship to go to the Mayo Clinic and join David Toft, the discoverer of a protein that mediates the action of estrogen.

"I was very excited to be at a world stage of science discovery. I did not do anything of that magnitude, but being in such an environment shapes your thinking that if you have one life to live, you have to do something with it."

Greater opportunities for achievement and contributing to his field led him and Parviz, who holds a doctoral degree in physiology, to remain in the United States.

"I am very grateful for the opportunities that this country has given us. Actually, I have lived here longer than I lived in India. Our children were born and raised here. This is our home, even though the value system that India gave me is still very strong. There is very high respect for age, seniors. And being raised in



President Virinder K. Moudgil and his wife, Parviz Gandhi Moudgil, met while they were university students. She teaches at Oakland Community College.

OAKLAND UNIVERSITY PHOTO

I'm thrilled by the opportunity to work with the faculty and staff here, outstanding teachers and instructors – embracing their passion to bring the very best to students in the classroom, studios, and laboratories...!

Lloyd Reuss (left), chairman of Lawrence Tech's Board of Trustees, joins three Lawrence Tech presidents: newly appointed President Virinder Moudgil; Chancellor Lewis Walker, who served as president 2006–12; and President Emeritus Richard Marburger, who served from 1977–93.



a family that was so focused on social good more than personal good instilled in me values that I still carry today.”

Moudgil has also held an adjunct professorship at Wayne State University and has been a visiting scientist at universities in Serbia, France, and India.

At Oakland, even as he advanced in administration, he remained an active researcher of the molecular mechanisms of steroid hormone action and the hormonal regulation of breast cancer, and received nearly \$3 million in grant and research support awards from the National Institutes of Health and others.

As OU provost, Moudgil oversaw six schools, the College of Arts and Sciences, the main library, and 16 administrative units, including technology services, international studies, the business incubators, e-learning, and grants, contracts, and sponsored research. He co-chaired the steering committee for the establishment of OU's medical school partnership with Beaumont Health System and played a key role in its affiliation agreement with Cooley Law School.

Moudgil chaired the Academic Officers Committee (Provost Council) of the Presidents Council of the State Universities of Michigan from 2007–11. He is an active lecturer and author and has participated in or chaired a number of regional, national, and international conferences in his area of study and on higher education topics.

At LTU, he succeeds Lewis N. Walker, who has served in several leadership roles, including president since 2006, and as vice president of academic affairs and provost from 1994–2006. The trustees have appointed Walker to serve a one-year term as the University's chancellor, during which time he will devote much of his attention to fund raising.

Under Walker, Lawrence Tech has been aggressive in expanding programs in emerging economic sectors, such as robotics, defense, and sustainability, including “fast track” certificate programs to help professionals retool themselves for new careers. Walker worked to include leadership fundamentals in all undergraduate curricula through all four years, a rare distinction in higher education outside the service academies.

More than \$50 million has been spent at Lawrence Tech on facility and curricular improvements in the past decade, and nearly \$70 million has been raised during the silent phase of a \$100 million capital campaign to build an innovative Engineering, Architecture, and Life Sciences Complex, and increase scholarships and the endowment.

Enhancing the LTU legacy

“I'm thrilled by the opportunity to work with the faculty and staff here, outstanding teachers and instructors – embracing their passion to bring the very best to students in the classroom, studios, and laboratories,” said Moudgil. “This is a community in which I can work and further enhance the growth of LTU. ‘Further enhance’ – I use the words carefully, because I know that with President Walker, Provost Vaz, and many others, this institution has made great strides. So what I bring here is simply a passion to advance that work, complement that work, and further enhance and enshrine this university's great legacy.

“LTU has a platform of community partnerships, wonderful donors and friends, a great campus, and good enthusiasm. I will endeavor to broaden the platform with faculty and staff, and see where we can work on additional areas of education and research. My goal is to advance their aspirations – tell me how you can be the best in what you do, and then, whether it is a grant, a research professorship, equipment, a sport, whatever it is, we'll find ways to achieve it.

“That will be my emphasis, to empower our faculty and staff, our colleagues, and at the same time build a community base on which to create a stronger institution that provides the best education possible for our students. We have a distance where we can grow. Lawrence Tech's best is yet to come.” □BJA

You're invited to inaugural events

The inauguration this fall of Virinder K. Moudgil as Lawrence Tech's seventh president provides a grand opportunity to celebrate the University's values, progress, and potential, and participate in commemorating LTU's 80 years of educational service. Activities of special interest to students, alumni, faculty, staff, donors, and other friends are being planned for the week of Sept. 23–29. Visit www.ltu.edu/inauguration for details as they develop.

Design AND FUNCTION

Transportation design prepares students for auto industry's future



Keith Nagara (center) comments on freshman Greg VanderVoord's work during a class in a transportation design studio at the Art and Design Center.

At this year's North American International Auto Show (NAIAS), one of the hottest concept cars wasn't mounted on a revolving turntable with a pretty model. Instead, there were many appreciative nods for a futuristic vehicle in Lawrence Technological University's exhibit on the main concourse of Cobo Center.

Colin Bonathan and Jeeho Cha, two juniors in Lawrence Tech's transportation design bachelor's degree program, created the concept for an electric 2025 Lincoln

Colin Bonathan and Jeeho Cha designed an electric Lincoln Continental for 2025 and created the computer file used to produce this quarter-scale model.



Continental as a summer project. Ford Motor Co. design executives liked it so much that they had the quarter-scale model built at the company's product development center in Dearborn.

The sleek design captured the attention of both NAIAS passers-by and car design enthusiasts on the Internet. A dozen bloggers kept the discussion going long after the Auto Show had ended.

What made the attention-grabbing model possible was its basis in current engineering principles and practices. Bonathan and Cha used industry-standard computer design programs to develop their concept car, making it relatively easy for the professionals at Ford to build the model.

Bonathan explained that he started with the desired wheel base and then placed the occupants, the electrical system and other components in his concept vehicle before he finalized his design ideas for the exterior. He utilized computational fluid dynamics to maximize the aerodynamic values of the concept car.

"We're not just doing pretty pictures. We're designing beautiful cars that actually work," Bonathan said of the transportation design program at Lawrence Tech.

This level of technology training isn't found at other undergraduate programs, according to Adjunct Instructor Doug Gaffka, a retired Ford design director. "Lawrence Tech students are way ahead of other design schools in terms of computer technology," he said.

Guided by auto executives

Students like Bonathan and Cha are what some prominent auto executives had in mind when they approached Lawrence Tech six years ago with suggestions for a new design curriculum geared to the needs of the auto industry. GM executive Bob Lutz and Ford design executive Peter Horbury, among others, asked Lawrence Tech to develop a curriculum that incorporated both design and engineering aspects.

The resulting degree program reflects Lawrence Tech's signature "Theory and Practice" approach to learning by combining in-depth conceptual investigations with hands-on projects and extensive exposure to working professionals.

The 2007 program launch was spearheaded by director Keith Nagara, whose 10 years at Ford Motor Co. included work on advanced concepts and architectures, powertrains, exteriors, interiors, body structures, hybrid electric vehicles, and body integration. Originally an art student, Nagara took his passion for cars beyond design

to earn a bachelor's degree in mechanical engineering and a master's degree in automotive engineering, both at Lawrence Tech.

"What differentiates us from other schools is that design and engineering are together, which is how the industry operates. Designers must be able to work well with engineers and communicate their design priorities in terms that engineers can understand and work with," Nagara said.

The success of this approach was on display when the first class of transportation design students graduated in May 2011. The program had already been recognized by www.design-schools.com as one of the country's top eight in automotive design. By their final semester the four members of the first graduating class had already worked at Ford, Chrysler, GM, Peugeot, Volkswagen, and RTT USA, an international graphics software company.

In fact, all transportation design students work on industry-sponsored projects in all four years of college, and most are hired as interns or co-op students prior to graduation.

Working with industry

"We've tried to make our program like a four-year apprenticeship," Nagara said. "We wanted to create an industry studio environment. Students must blend their creative talent with an understanding of engineering and manufacturing technology, so that they design projects with feasibility of manufacturing in mind."

During the past academic year, students worked on 10 design projects for Lincoln, Chrysler Interior, Chrysler Exterior, Cadillac, Navistar, TARDEC, Inteva, Detroit Aircraft Corporation, the Steel Market Development Institute, and Michelin.

In these projects, the companies ask students to propose solutions to the real-world problems in developing cars and components. Students meet regularly with automotive designers and engineers, and in the process improve their skill sets and design knowledge. The students benefit from feedback when presenting their proposals to auto executives – an opportunity that junior designers at big companies rarely get.

Transportation design student Cherise Caldwell discusses some of her designs, which were on display in the gallery of the University Technology and Learning Center.

Industry executives are willing to work with college students in order to get new and fresh ideas that are not tinted by the corporate culture. They are also looking for promising future employees, which is why these projects often lead to internships and eventually full-time employment.

This ongoing interaction with current industry projects also keeps the transportation design program abreast of evolving practices in manufacturing and professional design. "Our students are familiar with new technologies and processes being developed in the industry," Nagara said. "When they get out into the workplace, they are familiar with what is breaking new ground in industry."

Core curriculum

In the first year, students learn about vehicle architecture, body structure, interiors, chassis, and powertrain, the components of the overall "package" of a vehicle. They benchmark their concepts to other products already on the market. Sustainability has become a key consideration in auto design.

Freshmen learn how to produce two-dimensional sections that provide engineers with important physical information about the geometry of proposed components. Sections are the building blocks to designing a vehicle, yet it's very rare that engineers are taught this knowledge in school, according to Nagara.

This type of information allows design and manufacturing engineers to consider how the product would fit in with other components or a system and its potential impact on the assembly process. "Our students will be very successful in industry because their designs will not be compromised by technical requirements, since those issues have already been taken into consideration," Nagara said.

In their second year, transportation design students take a more in-depth look at vehicle architecture and the manufacturing process for high-quality surfaces. Students learn to consider the feasibility and ease of manufacturing as they apply technical



parameters that include governmental regulatory requirements, vision zone study, lighting effects, and safety integration.

Sophomores are introduced to the design exercise of "futuring," the process of considering how the structure of a new vehicle can evolve once certain constraints have been removed. An example would be the replacement of the internal combustion engine, which could eliminate the need for a large engine compartment and provide opportunities to reconfigure the architecture. This allows the students to analyze trade-offs and opportunities.

Juniors study human factors such as ergonomics that go into designing the interior of a vehicle. They also learn about human-computer interaction, an increasingly important aspect of the driving experience.

Seniors study manufacturing processes and rapid prototyping technologies. Their thesis project must deal with both design and engineering concepts while integrating exterior and interior design through a holistic approach.

Technology holds the key to future design

While creativity is a trait that auto executives know they need, it is increasingly clear that the auto industry – along with society in general – will be driven by emerging trends in technology. Whether it is in the manufacturing process or the driver interface, auto designers and engineers must respond to what the latest technology makes possible.

All Lawrence Tech undergraduates receive powerful laptops loaded with all the software they need for the courses – another key differentiator for the transportation design program. The curriculum is structured to give students a strong foundation in the technical aspects of computer-aided design starting in their freshman year and animation by the end of their sophomore year.

“There is a technology influence that makes Lawrence Tech’s program unique.”

Gregor Duler, who came from Slovenia to study at Lawrence Tech, discusses his proposal for the Steel Wheel competition.

Transportation design students also become familiar with CATIA, the sophisticated design software used by many companies and engineering departments.

This strong foundation in the technology used in the auto industry enables transportation design students to translate their creative designs into concrete specifications that engineers can utilize in the manufacturing process.

“There is a technology influence that makes Lawrence Tech’s program unique. These students think holistically, go beyond styling, and take manufacturing into account in their designs,” said Brian Baker, another adjunct instructor with many years of experience in the auto industry.

It is a combination that has benefitted students like Gregor Duler, who came all the way from Slovenia to study at Lawrence Tech. He has interned with both GM and Volkswagen.

“Being a design student first and foremost, I liked design classes and learning from the professionals who came in. But I realized that the engineering classes were very important for the workplace,” Duler said. “The LTU transportation design program is very challenging, and you need to work hard to become a designer.” □EP



Lutz brings his 'car guy' perspective to Lawrence Tech



Transportation design student Tyler Bame discusses one of his design projects with Bob Lutz.

Bob Lutz, who fought passionately for good automotive design as a top executive at Ford, Chrysler and General Motors, came to Lawrence Tech on April 26 to deliver a lecture and visit the transportation design program that he helped inspire.

Before delivering the final Architecture Lecture of the academic year, Lutz signed copies of his book, “Car Guys vs. Bean Counters: The Battle for the Soul of American Business.”

He started his LTU visit by touring the transportation design studios in the Art and Design Center where he shared his enthusiasm for car design with students.

The College of Architecture and Design started the program in 2007 after several leaders in the automotive industry, including Lutz, said there was a need for a college program that teaches designers how to understand the engineering aspects of car design so that they can communicate effectively with engineers.

Interest in media communication has grown steadily since the major was introduced in 2006. It started with a strong emphasis on the skills and talents needed in television broadcasting. Now media communication students must learn additional skills, according to Jody Gaber, who became the program director at the beginning of the 2011–12 academic year.

From Hollywood to academia

Gaber has 17 years of experience in Hollywood working for Warner Brothers, Paramount Pictures, and Walt Disney Animation Studios, where she gained an appreciation for the range of skills and talents needed to mount a successful movie production. After she and her husband moved back to Michigan, she worked for Doner Advertising and Speedshape, a digital design company. When Michigan rolled out its film incentive program, she returned as art department coordinator for four movies, including “The Ides of March” directed by George Clooney.

In that role she worked with numerous interns, including four from Lawrence Tech on the set of the Elmore Leonard film, “Freaky Deaky,” last year. She was so impressed with their skills and capabilities that she jumped at the chance to work at the University.

“The interns from the other colleges were very talented, but the interns from Lawrence Tech were the best by far because of their technical skills. They hit the ground running,” Gaber said. “Lawrence Tech students have skills that are very useful in the entertainment industry, and that gives them an edge.”

The Lawrence Tech interns were already well versed in

“The interns from the other colleges were very talented, but the interns from Lawrence Tech were the best by far because of their technical skills.”

computer programs such as Revit, Sketchup, Final Cut Pro, Illustrator, and Photoshop that movie production companies use for a variety of tasks.

Only one of the LTU interns on “Freaky Deaky” was a media communication major. The others were a recent graphic design graduate, a dual major in graphic design and imaging, and an interior architecture major.

Interdisciplinary imperative

Seeing students in other academic programs with skills that are valued in the media marketplace, Gaber concluded that the media communication program needs to become more interdisciplinary.

“It used to be that you needed to be a specialist to work in media. Now you need to be a generalist,” Gaber said.

That’s what Associate Professor Melinda Phillips, chair of the Department of Humanities, Social Sciences, and Communication, had in mind when she recruited Gaber.

“Interdisciplinarity is a hallmark of a Lawrence Tech education. Under Gaber’s leadership, our media communication program will become even more interdisciplinary, allowing for cross-pollination and cooperation between architects, engineers, and media communication majors,” Phillips said.

Graphic design and video are merging in online applications, creating more work for graphic designers who can make the transition. Media communication students will be learning the Adobe Suite



Dan Armstrong (center), a reporter/anchor for the NBC affiliate in Flint, goes over a script for a news segment with media communication student David Faes (left).

and other graphic design software programs.

“We are expanding the skill sets of our students, which makes them more marketable,” Gaber said.

During the 2012–13 academic year, the College of Arts and Sciences will launch a new course in emerging web technologies and new certificate programs in web design, digital animation, graphic design, and audio production.

Writing still counts

A background in the humanities remains a valuable asset for someone seeking a career in the media, because quality content still requires a high level of skill in written and verbal communication. While students must master a range of technology skills in order to convey their message across multiple media platforms, they also must be able to communicate effectively, Gaber said.

There are also expanding opportunities for writers as businesses find new ways to increase their presence in social media. For example, local chain Biggby Coffee has four or five Twitter accounts, and each must be written with a different “personality” to appeal to different target audiences.

Kathryn Ruff, a media communication major, enjoys learning about the skills required both behind and in front of the video camera, but she now sees that writing could be an important part of her career.

“Because of the media communication program, I realized that I love to write. When I took my screenwriting class, we had

to write a feature-length film. That was 150 pages of creative-ness,” she said.

Megan Ziegler is another media communication student focusing on writing. “When I chose this program, I did so for the video production skills, but my focus has changed to wanting to utilize my writing skills,” she said. “If the writing is poor, the film is boring, the news story is misleading, or the blog post is confusing. We can really use writing skills anywhere.”

Broadcast fundamentals

Even with so much changing in media, broadcast journalism remains a good arena for students to hone their skills in script writing, digital editing, sound mixing, lighting, and set design. Media communication students spend many hours mastering those skills in the Media Services/AV Master Control Studio on the lower level of the University Technology and Learning Center.

Broadcasters like anchor/reporter Roop Raj of Fox 2 News and anchor/reporter Dan Armstrong of the NBC affiliate in Flint mentor media communication students on what it takes to put together a successful television production.

Many media communication students also gain valuable experience by shooting hours of video for Lawrence Tech’s Departments of Media Services/AV and eLearning Services at lectures, seminars, and other campus events. And during the past year media communication student David Faes has



In the control room of the Media Services/AV Master Control Studio, media communication students follow the action on the set.

been the announcer for Lawrence Tech's promotional spots on the State Champs program aired on television station CW50 Detroit.

Lawrence Tech students have won awards in several video competitions, including the 48-hour Go Green Film Challenge earlier this year.

Video frontier

Media communication major Scott Maiale changed his focus from radio to video after transferring from the Specs Howard School of Media Arts. As a media communication student he has worked on producing and shooting video and has gained practical experience as a production assistant for LTU's Department of Media Services/AV.

He believes the exponential increase of online videos in the past few years has created many job opportunities. The commercial applications of videos are still being developed, and in the future many businesses will find more ways to use videos for marketing and sales activities.

Right now it might be tempting to say that video is king in social media, but the pace of innovation in communications makes it clear that nothing will remain constant except change...

"Online video is huge right now. Every business and organization wants video online and a social media presence, and there are so many different things you can do with it," Maiale said.

It might be tempting to say that video is king in social media, but the pace of innovation in communications makes it clear that nothing will remain constant except change and the need for professionals with the ability to communicate across multiple media platforms.

"People have migrated to social media as their favorite place

to communicate and interact. Companies know this and are looking for talented media professionals to help them reach these potential customers with quality media content," Gaber said.

Educating those professionals of the future is the mission of the media communication program. □EP



In the Media Services/AV Master Control Studio, students can simulate a television news set as part of a class assignment to produce a news report.

Looking ahead

Electron microscope opens

The acquisition of the Detroit area's first environmental scanning electron microscope (ESEM) has greatly enhanced the research capabilities of many engineering programs at Lawrence Technological University, while also opening up new opportunities for teaching and collaboration both on and off campus.

The microscope was installed in the Engineering Building in February 2011 after Assistant Professor Yawen Li won a \$769,444 grant from the National Science Foundation.

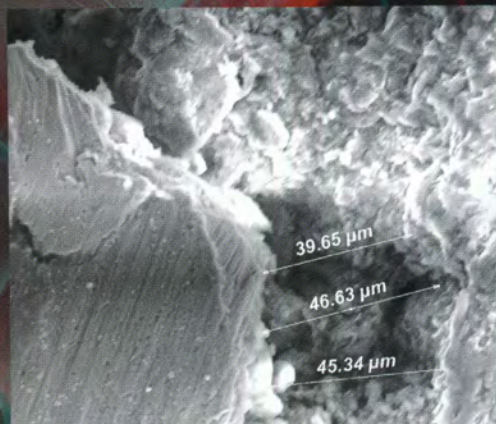
The microscope can produce high-resolution images of a sample surface, revealing details less than a nanometer (one-billionth of a meter) in size. To put this into perspective, a very fine human hair is about 10,000 nanometers wide. The maximum magnification of the ESEM is about 250 times the limit of the best light microscopes.

Lawrence Tech's powerful microscope can be used to scientifically characterize wet, oily, porous, and soft materials that are traditionally considered impossible to study using conventional electron microscopy techniques.

According to Li, the ESEM has been a great teaching tool in biomedical engineering, and it can be used in other fields of engineering and the natural sciences. "We teach theories about the failure of materials, and now students can actually see what happens to the microstructure," Li said.

Lawrence Tech's ESEM has already been used to support research at Wayne State University, Oakland University, the William Beaumont Research Institute, and the General Motors Research and Development Center. It has been used for projects in biomaterials, orthopaedics, tissue engineering, construction materials, automotive components, and lithium ion batteries, to name a few.

The environmental scanning electron microscope produces images that enable researchers to measure the deterioration of concrete.



HV 20.00 kV mag 1,000 x HFW 127 μm WD 12.0 mm det LFD 4.38e-1 Torr spot 3.5 30 μm 1.75 over 14 mile road

"The environmental scanning electron microscope is strengthening the existing materials research infrastructure at Lawrence Tech and our partnering institutions," Li said.

Associate Dean of the College of Engineering and Civil Engineering Associate Professor Elin Jensen took advantage of this newly available research tool to study the deterioration of concrete caused by salt and chloride. The ESEM provided photographic evidence of the cavities that deterioration creates and mapped the presence of the chemical elements that cause deterioration.

"The results provided supporting evidence for the work we were doing and also opened up new avenues of inquiry," Jensen said.

Looking for medical solutions

The capabilities of the electron microscope have put Lawrence Tech on the frontier of biomedical research into possible solutions for the painful and potentially debilitating tearing of the anterior cruciate ligament (ACL). Each year an estimated 200,000 Americans – mainly athletes and the elderly – suffer ACL tears, and the number is growing.

The ACL connects the femur and tibia in the knee and provides stabilization during motion. Ligaments can be replaced with an autograft or allograft, but the surgery can lead to complications later in life. Replacing the torn tissue with healthy tissue would be a much better option. Li is leading a Lawrence Tech research team that seeks to regenerate ligament tissues

up new avenues of research and instruction

Allison Andre (left), who earned a biomedical engineering degree in 2011, has used the environmental scanning electron microscope for research at DMC Sports Medicine. She discusses her project with Khoewing Chov (center) and Assistant Professor Yawen Li. At left is an image of an ant created by the microscope.



using a combination of cells, biomaterial scaffolds, and mechanical and biochemical stimulations.

The biomaterial scaffold is an artificial structure capable of supporting three-dimensional tissue formation. It provides a structure that mimics the in vivo microenvironment of the target tissue. Cells are seeded into the scaffold, attach and proliferate, secrete growth factors, and form their own matrix. During this process, the scaffold – usually made of biodegradable polymers – initially provides mechanical support to the cells and then gradually breaks down, but not until new tissue is formed to take over the mechanical load.

“The knowledge we gain from this study will help us in the design and optimization of scaffolds for ligament regeneration. It also provides useful reference for other researchers who might choose the materials for the regeneration of other tissues or organs,” Li said.

Tristan Maerz, BSBmE’09, an engineer in the Department of Orthopaedic Research at William Beaumont Hospital, first brought the idea for this research to Lawrence Tech. Beaumont is a major collaborator on the project, along with Joseph Corey at the University of Michigan.

The research team uses the ESEM to study the mechanical properties and microstructure of different types of nanofiber scaffolds. The team is also conducting various biochemical tests to evaluate the interaction of the cells with the polymeric nanofiber materials.

The project started in January 2010 when three biomedical engineering students took it on as their senior design project, with financial support from the Kern Family Foundation. They successfully designed and fabricated a bioreactor before graduating in 2011. Then the current student team of Khoewing Chov, Joseph Seta, and Meagan Richardson-Frazzitta took over the

Exposing students to advanced research as undergraduates can provide the motivation to continue their studies and build careers in biomedical research.

research as their senior design project. Li expects another team to continue the study in the 2012–13 academic year.

Richardson-Frazzitta is primarily involved in the cell-biomaterial interaction study, while Seta and Chov are focusing on the mechanical testing.

“Understanding how the cells interact with these scaffolds, as well as how mechanical stimulation affects their behavior, will allow us to optimize our process to provide an ideal environment to encourage cell proliferation and the production of collagen. Results from this study will provide data necessary to move forward with ligament tissue engineering using biodegradable scaffolds,” said Richardson-Frazzitta.



Attracting students to careers in research

Allison Andre, BSBmE'11, one of the students who worked on the bioreactor, now works for DMC Sports Medicine as the lab coordinator at its center for education and research. Her research focuses on biomechanics and basic science contributing to sports medicine and general orthopaedics.

“Working with the ESEM gave me experience in imaging and mechanical testing of materials. At LTU there were so many opportunities I was able to participate in. The ligament tissue engineering bioreactor project sparked my interest in biomaterials and orthopaedics,” Andre said.

Andre returned to campus to use the electron microscope to study the effects of stretching the shoulders of rats. She tested the mechanical pull-out strength of the biceps tendon after different procedures have been performed.

Li believes the electron microscope can help recruit new researchers like Andre to this exciting field of medicine. She makes a point of turning over ESEM research projects to undergraduates to give them the opportunity to do research on the same level as PhDs.

Exposing students to advanced research as undergraduates can provide the motivation to continue their studies and build careers in biomedical research. “Tissue engineering is a revolutionary approach to the replacement of diseased or damaged human tissue. It’s one of the hottest fields of biomedical research,” Li said.

Tissue engineering has already been used to successfully replace skin tissue for burn victims, and the creation of bone tissue is in clinical trials now. Replacing ligaments would be another major advance, and the eventual goal is to develop the capability to replace more complex organs or tissue.

“Tissue engineering still hasn’t matured as a medical field, and it holds great promise,” Li said. □EP

Lawrence Tech student Khoeng Chov prepares the environmental scanning electron microscope for a test.

Lawrence Tech leads the way to Gold Edison Award for innovation

Lawrence Tech and the 19 other colleges and universities that comprise the Kern Entrepreneurship Education Network (KEEN) have received a Gold Edison Award. The awards promote the time-tested characteristics of innovation of visionaries such as Thomas Edison.

The collegiate engineering programs in the KEEN network were recognized for their collaborative work together to instill the entrepreneurial mindset in students.

Lawrence Tech Provost Maria Vaz was one of four KEEN representatives selected to accept the award in New York City.

In 2009, Lawrence Tech was awarded a five-year, \$1.1 million grant from the Kern Family Foundation to further integrate the entrepreneurial mindset in the education of undergraduate engineering students.

In 2010, Lawrence Tech and five other KEEN universities formed the Dynamic Compass Network (DCN) to share innovative approaches to entrepreneurial education in curricular innovation, faculty excellence, a community of practitioners, peer collaboration, continuous improvement, and experiential learning.

Lawrence Tech took the lead by implementing a pilot project that provided benchmarks for the network.

In 2011, the Kern Family Foundation awarded grants totaling \$2.4 million over three years to the six DCN universities to pursue the new model of sharing innovative practices. Boston University, Gonzaga University, Kettering University, Saint Louis University, and Worcester Polytechnic Institute have joined Lawrence Tech as active partici-

pants, and future funding for each university will depend on the success of all six.

The six DCN universities are building on Lawrence Tech's experiences and developing

innovative programming through synergistic interaction. The Kern Family Foundation promotes this interaction through conferences, workshops, publications, and a website. □EP



Provost Maria Vaz and Professor Sridhar Condoor of Saint Louis University proudly display the Gold Edison Award they accepted on behalf of the Kern Entrepreneurship Education Network.

Students win entrepreneurial contest

A Lawrence Tech senior project team captured first place in the entrepreneurial mindset competition held March 31 during the Kern Entrepreneurial Education Network (KEEN) Regional

Conference on Innovation and Entrepreneurship Education at Mercer University in Macon, GA.

Matt Calahan, Nancy LaBelle, and Rory Walters took first among 13 entries with their presentation

of the Shingle Shucker, a pneumatic-powered tool that removes both nails and asphalt shingles from a roof.

The Shingle Shucker is designed to reduce the intensive labor involved in the traditional manual method of removing shingles. This tool has a single handle with a thumb-operated button that activates an air cylinder to push a flipper that pulls up on the shingle and pulls out the nails.

The conference sponsored by the Kern Family Foundation

brought together faculty, staff, and students from KEEN schools to discuss collaboration in teaching; design projects; exchange of faculty and students; collaboration between administrators, faculty, and students; and joint student workshops and innovation competitions.

This is the first time Lawrence Tech has won the innovation competition, according to Ken Cook, chair of the Department of Engineering Technology and the team's faculty adviser.

"These students worked really hard and they have developed a product that is going into production," Cook said. "That is the ultimate goal of engineering technology senior projects."

The team also won Lawrence Tech's Professor George Schneider, Jr., Senior Design Award. □EP



Matt Calahan, Nancy LaBelle, and Rory Walters won the regional entrepreneurial mindset competition with their new product, the Shingle Shucker.

Online education scores well in national survey

Lawrence Technological University earned high marks in the first national survey of online academic programs conducted by *U.S. News & World Report* on nearly 1,000 institutions.

Graduate programs were ranked on student services and technology, student engagement and accreditation, faculty credentials and training, and admissions selectivity.

Lawrence Tech's online graduate programs offered by the College of Engineering were ranked second in the country for student engagement and accreditation – behind only the University of Wisconsin at Madison – and eighth for student services and technology.

Online graduate business programs were ranked 29th in the country in both student services

and technology and faculty credentials and training, and 67th in student engagement.

Online graduate programs in education were also nationally ranked for student services and technology (35th), faculty credentials and training (28th) and student engagement and accreditation (75th).

LTU Online was created in 2006, and the following year the

Higher Learning Commission of the North Central Association of Colleges and Schools approved the first three online degree programs.

During the 2011–12 academic year more than 1,000 students took close to 100 online courses at Lawrence Tech, and approximately 10 percent of all credit hours earned by Lawrence Tech students are through online courses. (See www.ltu.edu/ltuonline for a complete listing of programs and course offerings.)

"We believe our online programs have been well received because we have built a strong infrastructure and our professors have enthusiastically embraced the training that is required in order to be effective in the online environment," said Richard Bush, who oversees LTU Online as director of eLearning Services. "Lawrence Tech has chosen to focus its online program development on the graduate level. We recognize the demands and constraints placed on adult learners."

Lawrence Tech also offers many hybrid courses that combine online learning with classes on campus. □EP

Members of the eLearning Services staff at Lawrence Tech are (from left) Donna Kress, Diane Cairns, Lynn Miller-Wietecha, Clifton Johnson, Rachel Cronover, Marquita Poinsetta, and Executive Director Richard Bush.



Team Firefly victorious at Chicago Innovation Chase

Competing against teams from around the country, Team Firefly of the College of Architecture and Design won the Chicago Innovation Chase held at the Illinois Institute of Technology (IIT) in the fall semester.

The intercollegiate entrepreneurship and innovation program was designed to spotlight and mentor student talent to create the next generation of inventors, problem-solvers, and entrepreneurs.

Working in the Incubator at IIT, student teams undertook the same process as a startup company, going through design, research,

prototyping, market management, proposal drafting, and presentations, with the aim of solving a critical world problem.

After four days of intense competition, the team of Yousif Yousif, Bryce Gamper, Bianca Singleton, and Eliza Morales took home the first place trophy. Their winning business idea promotes a cross-cultural learning interaction between architecture students. The students hope to develop a viable business from the concept.

They also had the opportunity to network with entrepreneurial-minded students from colleges in

the Kern Entrepreneurial Education Network (KEEN), a program that supports the development of an entrepreneurial mindset in engineering students.

"The Chicago Innovation Chase was an inspirational journey. It gave me an opportunity to collaborate with remarkable people from all around the country, sharing ideas, and competing in friendly

challenges," Yousif said.

Donald Reimer, director of entrepreneurship for the College of Engineering, served as the team's coach during the competition and continues to assist them along with mentors from Lawrence Tech's LEGENDS, the entrepreneurial alumni group. □EP



Representing Lawrence Tech at the 2011 Chicago Innovation Chase were (from left) Yousif Yousif, Bianca Singleton, coach Donald Reimer, Eliza Morales, and Bryce Gamper.

Five states support LTU research project on alternative materials for highway bridges

Lawrence Tech is working on a three-year, \$349,000 contract to evaluate alternative materials and a new approach to building highway bridges for the state transportation departments of Oregon, Minnesota, Wisconsin, and Iowa, in addition to the Michigan Department of Transportation, which is the lead agency for the research project.

The study is testing noncorrosive cables and ultra-high-strength concrete in a bridge design that is both easier to maintain and faster to construct because it doesn't have a cast-in-place deck slab. The project is supported by the pooled fund of the Federal Highway Administration, and utilizes allocations from the five states.

Dean of Engineering Nabil Grace and a research team that includes students are conducting the study in Lawrence Tech's Center for Innovative Materials Research (CIMR) to test the advantages of a pre-stressed, decked bulb-T beam bridge design compared to side-by-side box beam bridges that have been widely used during the past 50 years in Michigan and other states.

The decked bulb-T beam has a wider upper flange than the traditional I-beam. The upper flanges of adjacent beams do not touch, and six inches of ultra-high-performance grout completes the connection to form the deck surface. The lower flanges of the I-beam are shorter, creating a cavity between the beams that makes it easier to inspect and repair the deck from underneath. The connection between adjacent beams is reinforced with two layers of non-corrosive carbon fiber composite cable (CFCC).

The study will also compare alternative noncorrosive reinforce-

ment materials such as stainless steel and carbon fiber reinforced polymer materials.

"The ultimate goal is to develop and construct a bridge superstructure system with a service life of 100 years requiring less maintenance and fewer repairs that tie up

traffic," Grace said.

Many bridges built with side-by-side box beams are now reaching the end of their service life, primarily because of corrosion of the steel reinforcement caused by water contaminated with salt and chlorides used to improve winter

driving conditions. The conventional grout material used between the beams also deteriorates in the numerous freeze-thaw cycles of winters in northern states.

Since 1988, Grace has conducted more than two dozen studies for state and federal agencies that have pointed to the long-term reliability of carbon fiber reinforcement of concrete highway bridges.

□EP



Lawrence Tech Project Engineer Charles Elder, BScME'04, describes the process for testing a pre-stressed decked bulb-T beam bridge (in the foreground) to an audience that included government officials and media representatives.

Student teams display vehicles at Auto Show

Engineering students Eric Patrick, Christian Morgenstern, and Kurt Morris were among the many students who volunteered their time to answer questions about the SAE vehicles on display at Lawrence Tech's exhibit at the North American International Auto Show held at Cobo Hall in Detroit in January. The exhibit organized by Keith Nagara, director of the transportation design program, also featured many automotive models designed by students.



Bachelor's degree in robotics engineering launched

At a time when the automotive companies and other manufacturers are reinventing themselves for the next round of global competition, Lawrence Tech has launched a Bachelor of Science in Robotics Engineering (BSRE). It's a well-timed response to the rapidly expanding demand for robotics engineers in the auto industry specifically and the manufacturing sector in general.

The interdisciplinary degree program introduced in the fall of 2011 blends mechanical engineering, electrical engineering, and computer science with robotics. In keeping with Lawrence Tech's motto of theory and practice, the curriculum gives students an avenue for hands-on implementation of the knowledge gained in the classroom.

The new degree program aims to address the shortage of qualified robotics engineers in Michigan and throughout the country. Manufacturers seek specialists in the field who will



Robotics Laboratory Instructor Jim Kerns helps students master both the mechanics and programming involved in robotics.

require a minimum amount of on-the-job training. Lawrence Tech's BSRE provides undergraduates with crucial knowledge that cannot be obtained by studying mechanical, electrical, or computer engineering as individual disciplines.

Robotics has grown into a primary engineering field in its own right, according to Assistant

Professor Giscard Kfoury, director of the new degree program. "This interdisciplinary degree provides graduates with the tools they will need to hit the ground running," he said.

Robotics engineering is an evolving discipline that goes beyond designing and building remote-controlled machines and

tethered robot arms. Robotics engineers are called on to design new robots, develop new applications for robots, and conduct research to expand the functionality of new applications. Robotics engineers are also responsible for ongoing maintenance so that tight production schedules can be met.

They have to be well-versed in systems engineering and possess the versatility to design and build a "human-like" system, consisting of control algorithms that represent the brain of the product, sensing and actuating schemes that simulate the nerves and muscles, and a mechanical system that makes up the skeleton of the design.

A new robotics lab dedicated to the support of the BSRE program has been established under the direction of Jim Kerns, a 36-year veteran of Ford Motor Company. The lab includes state-of-the-art measurement and data acquisition systems, along with various robotic kits and electromechanical components. In the near future it will be equipped to support research in robotics. □EP

TechCat+ brings the cloud to searches at the Library

When students return to fall classes, they will access materials at the Lawrence Tech Library – and beyond – through a new cloud-computing-based search interface, TechCat+, based on the WorldShare Management Services System.

Users won't be aware that all transactions take place at the OCLC headquarters in Columbus, Ohio. When it was founded in 1971, OCLC was originally the Ohio College Library Center, but it has grown to become the world's most influential source of bibliographic information, with over 1.8 billion holdings from 72,000 libraries in 170 countries.

Lawrence Tech has been a contributing member of OCLC since 1977, and nearly all of its cataloging records have been imported from OCLC. These records are also the primary source of sharing books and articles among libraries and are the basis for the library's current catalog and interlibrary loan system.

"We have decided to parlay this relationship into a stronger one and become the WorldShare Management System's next new member, among the very first libraries in Michigan and the Midwest to do so," Library Director Gary Cocozzoli explained.

TechCat+ streamlines the entire



library process for ordering, retrieving, checkout, and return. It requires little to no campus maintenance, no servers, and no special equipment.

As members of the WorldShare network develop new applications, other members can share these "apps." WorldShare is standards-based and its members work together to create a library system that is functional and efficient.

TechCat+ also adds a Discovery platform, a new concept in the library world.

"Imagine searching one interface and finding records of all of LTU's books, all of the books from other libraries, and journal articles from many of LTU's 100-plus databases all at the same time through a single common interface," Cocozzoli said. "If LTU does not own the book or article, the request can be placed for an interlibrary loan right from the interface."

TechCat+ will leverage LTU's investment in databases and resources, making it easier for students to find information, whether they are on or off campus. □EP

Student proposals for downtown Detroit attract media attention

A Lawrence Tech student exhibition of proposed projects along Woodward Avenue has attracted attention to detroitSHOP, the

University's experimental design studio in the recently renamed Chrysler House at 719 Griswold in downtown Detroit.

The studio opened in January in 2,500 square feet of office space donated by Bedrock Real Estate Services, a subsidiary of Quicken Loans, and furnished by the Somerset Collection. The studio class was taught by Associate Professor Amy Green Deines, chair of Lawrence Tech's

Department of Art and Design in the College of Architecture and Design, and Assistant Professor Peter Beaugard.

Following an open house on April 18, Deines and several students were joined by Eric Randolph of Bedrock Real Estate Services for an interview on the Craig Fahle Show on Detroit's public radio station, WDET 101.9 FM. The downtown studio was also covered by WXYZ TV-7, WWJ AM-950, and WJR AM-760. The students also made a presentation to Dan Gilbert, founder and chairman of Quicken Loans.

For the spring semester studio, 18 Lawrence Tech students were asked to develop proposals for Woodward Avenue between Jefferson Avenue and Grand Circus Park. Four teams developed a master plan for the development area, and then each team member worked on a specific project. Management students worked on business plans for the projects.

The students met four times with representatives of Rock Ventures and Bedrock Real Estate Services to get feedback and constructive criticism. Guest speakers representing the architecture and design disciplines contributed to the educational experience.

The intent of the detroitSHOP studio is to balance theoretical course work with real-world applications and community engagement. The ultimate goal is to make downtown Detroit a more attractive place to live, work, and visit.

"The academic model is to focus on Detroit with a multidisciplinary approach that utilizes architecture, interior architecture, graphic design, and urban design," Deines said. "The students have been asked to tackle design issues in a much more collaborative way." □EP



Lawrence Tech students and faculty hosted an open house at the detroitSHOP on April 18. From left to right in the back row are Kyle MacMillan, Brian Game, Erik Slagter, Michael Knoff, Mike Hall, Emma Zatkoff, Victoria Berti, and Assistant Professor Peter Beaugard. In the front row are Associate Professor Amy Green Deines, Renae Bengel, Carly DeCocker, Ashley Malone, Melanie Etoff, Irina Dwyer, Jamie Goforth, and Rani Abdallah.

Lawrence Tech celebrates first Winterfest

A highlight of Lawrence Tech's first Winterfest was a fiercely fought broomball tournament. Winning the E. George Lawrence Cup for the first time were (from left) Fruit of the Loom players Tod Johnston, Tony Sabat, Charlie Harris, and Chris Davis, with goalie Malt Puz in front. Other activities included the American Coney Island Challenge, the Winterfest Lodge outside North Housing, basketball in the atrium, and an artificial snowball fight.



Student proposals selected for 'third place' in Southfield

Five Lawrence Tech students shared \$2,000 in prize money for submitting the winning entries in four categories in a contest to design a "third place" hangout for college students in the planned City Centre district of Southfield.

The City Centre Advisory Board, which wants to encourage college students to spend more time in Southfield, asked Lawrence Tech's Student Government to organize the competition.

The entries of 12 teams were displayed in the atrium of the Buell Management Building, and a

panel of judges took into consideration hundreds of ballots cast by students, faculty, and staff. The submissions were judged in four categories: overall interior design, atmosphere, name/logo/branding, and menu. The winning team in each category received a \$500 cash prize.

According to the advisory board's plan, the winning "third place" designs will be adapted and constructed in an existing, unused property in the City Centre Plaza on Evergreen Road north of Ten Mile Road. The second phase of the competition takes place this fall when LTU students will

be invited to develop and submit business plans.

While the City Centre project could take up to five years to implement, the City Centre Advisory Board would like to see the new "third place" bar or restaurant open sooner, perhaps next year.

"This is an exciting competition for Lawrence Tech students and for stakeholders in the Southfield City Centre district," Southfield Director of Planning Terry Croad said. "The contest fits perfectly into our overall vision to transform the area into a pedestrian-friendly, vibrant lifestyle center with a variety of restaurant and retail options. We certainly had some impressive and creative ideas from the LTU students for the type of place they would like to see in the City Centre." □EP



Southfield businessman Hassan Jawad poses with the winners of the "third place" design contest, (from left) Michael Knoff, Deanna Hewitt, Gena Briolat, Abby Schroeder, and Erik Slagter. Dean of Students Kevin Finn is in the background.

Gateway plaza will lead to Southfield's City Centre

A new landscaped gateway plaza at the intersection of Civic Center Drive and the Northwestern Highway service drive on the north end of Lawrence Tech's campus is part of a plan to increase pedestrian and bicycle

traffic between the University and Southfield's commercial district.

The Southfield City Centre Advisory Board has unveiled ambitious plans for the City Centre district that will create a pedestrian-friendly, mixed-use

environment for the area bounded by Evergreen Road, Northwestern Highway, and I-696. The Southfield municipal complex and the Lawrence Tech campus are considered part of the new City Centre.

The south side of Civic Center Drive is currently designated as a bike route, and one goal is to improve the bike route from campus to the municipal center complex.

The project has an estimated price tag of \$80,000, and the City Centre is providing matching funds for pathways, landscaping, and benches. University Architect Joseph Veryser has coordinated the construction work with the plans for the new district.

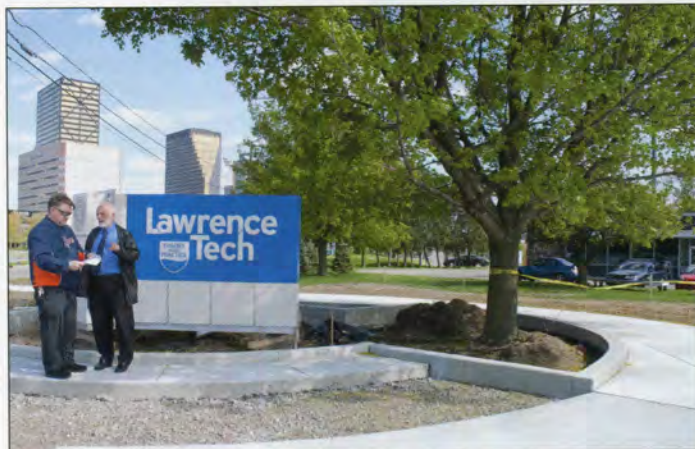
The University has replaced a sign with the University's updated logo. "Civic Center Drive has always been considered the back entrance to the campus, and we

want to make it more attractive," Veryser said.

There is a plan to extend a bike path and sidewalk down to Ten Mile Road, which would increase student access to Southfield merchants, restaurants, and other services. That fits in well with the University's plans for new residential housing and a new academic building for engineering, architecture, and life sciences.

Veryser said University officials had been concerned about the appearance of the Civic Center approach to the campus, but hadn't been able to implement two previous plans because of the cost involved.

"The opportunity to work so closely with the City Centre and pursue this partnering and cost sharing has made this improvement possible," Veryser said. "A little more needs to be done but at least it can be handled as small projects over several years. The largest part is now under way." □EP



Southfield Director of Planning Terry Croad (left) and University Architect Joseph Veryser discuss the details of the gateway plaza construction project near the Civic Center Drive entrance to Lawrence Tech's campus.

Student service wins recognition

Lawrence Tech has been named to the 2012 President's Higher Education Community Service Honor Roll for the first time by

the Corporation for National and Community Service. During the previous academic year, more than 800 Lawrence Tech students



Sorting food boxes at Gleaners Community Food Bank in Detroit are (from left) Katelyn Addy, Obie Al-Hayek, AmeriCorps VISTA TaQuilla Martin, Ghansha St. Amie, and Chris Harris.

provided nearly 5,000 community engagement hours.

The 2010–2011 academic year was the first time Lawrence Tech offered monthly service projects and started to build a database of regular volunteers who work on multiple projects each year. The database has grown to nearly 500 students.

The Office of Leadership Programs and First Year Experience organizes and hosts the monthly service projects that typically take place on a Saturday and are open to all Lawrence Tech students, faculty, and staff.

All students who take University Seminar and Leadership Models and Practices participate in an academic service-learning project. Student organizations often encourage or require their members to participate in volunteer activities as well.

In addition, a dozen Lawrence Tech students who have par-

ticipated in service events and programs this past year were recognized by Michigan Campus Compact at an awards ceremony in April.

The LTU students who received the Heart and Soul Award were Frances DePalma, Chloe Dunklin, Jamiil Gaston, Christopher Harris, Michelle Hier, Megan Holborn, Javon Hunter, Joseph Kuzdal, Michelle Overley, Brandon Schwandt, Rachel Sweet, and Elton Tate, Jr.

Michigan Campus Compact, which Lawrence Tech joined in 2009, is a coalition of 42 college and university presidents who are committed to providing community service, service learning, and civic education to college students as part of their college experience. □EP

Marburger creates special award for Walker

Each year four Lawrence Tech employees win the coveted Marburger Awards in recognition of outstanding contributions to the University. This year President Emeritus Richard Marburger added a fifth recipient, then-President Lewis Walker.

Walker is stepping down as president June 30 to become chancellor of the University for a year.

Marburger brought the April 26 awards ceremony in the Buell Management Building to a rousing conclusion by enumerating some of the accomplishments that have taken place during Walker's tenure at Lawrence Tech, first as provost and then as president since 2006.

Like all the other Marburger Award recipients, Walker was presented with a check for \$1,000. He said the money will go to the Lewis and Nancy Walker Endowed Scholarship in Leadership.

This year's winners of the annual Marburger Awards are:

- **Staff Person of the Year:** Gayle Schaeff, faculty secretary in the College of Architecture and Design.
- **Administrator of the Year:** Anne Adamus, director of university communications and academic editor, Department of Marketing and Public Affairs.
- **Faculty Member of the Year:** Sabah Abro, college professor in the Departments of Mathematics and Computer Science and Engineering Technology.
- **Champion of Institutional Excellence and Pre-eminence:** Jerry Lindman, director of the Center for Nonprofit Management in the College of Management.

The Mary E. and Richard E. Marburger Excellence in Achievement Awards were created in 1993 when colleagues, alumni, and friends made contributions to a fund created to commemo-

rate Marburger's retirement as president of the University. Marburger and his late wife have made additional contributions, and almost 20 years later, he remains very active as a volunteer from his office in the College of Engineering. □EP



The VIPs at this year's Marburger Awards ceremony were (from left) Jerry Lindman, Anne Adamus, Sabah Abro, then-President Lewis Walker, President Emeritus Richard Marburger, and Gayle Schaeff.

Lawrence Tech celebrates international diversity

The Lawrence Tech campus community celebrated the cultural diversity of its student body with the International Festival that started March 28 with Holi, the Festival of Colors, and concluded with the documentary “Salaam Dunk” about a women’s basketball team in Iraq.

Holi is a traditional celebration of the coming of spring in India and other countries with a Hindu population. For centuries it has been celebrated by people throwing scented powder at each other. Dean of Students Kevin Finn and his staff organized a Lawrence Tech version of this ritual outside the UTLC.

Other International Festival activities included a World Dance Fair at the Ridler Field House, a student panel discussion about living in a different culture, and a seminar series to help international students develop career skills outside their home countries. □EP



A rainbow of colors filled the air in the Quad on March 28 as students, faculty, and staff celebrated the coming of spring with a spirited rendition of Holi, the Festival of Colors celebrated in India and other countries. In the photo above, Dean of Students Kevin Finn (right) adds some more chartreuse to one student's personal rainbow.



New ESD scholarship goes to architectural engineering student

Lawrence Tech Associate Professor Janice Means (left) congratulates architectural engineering major Rachel LaCasse for winning the \$500 Gold Awardee Scholarship, which was presented for the first time by the Affiliate Council of the Engineering Society of Detroit. LaCasse decided to pursue a career in sustainable housing in Third World countries after living in South Africa for five months. The scholarship was established to honor the ESD Affiliate Council's Gold Award recipient for the previous year. Coincidentally, that award was presented to then-President Lewis Walker for 2012.



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High-flying executive finds time to give back to his alma mater

Achieving great success in his career has served as a reminder to Alumni Achievement Award honoree Larry Lawson, BSEE'80, of the importance of the rigorous college education he received at Lawrence Tech.

Lawson is president of Lockheed Martin Aeronautics Company and executive vice president of Lockheed Martin Corporation. He leads the corporation's military aircraft business, which employs more than 26,000 people at nine locations in the United States.

Lockheed Martin Aeronautics is the industry leader for design, development, manufacture, and full-service logistics of a wide range of combat and air mobility aircraft for the U.S. and its allies. The decisions that Lawson makes often have impact in the nation's capital and around the world.

Lawson has also committed leadership to Lawrence Tech as a member of the Board of Trustees and the Capital Campaign Steering Committee. He and his wife, Debra, are leading by example with a \$100,000 gift to take advantage of A. Alfred Taubman's \$10 million challenge grant for the planned A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex.

The Lawsons also have established the Larry A. Lawson Endowed Scholarship in Electrical Engineering with an initial gift of \$20,000.

Lawson thinks those who have benefited from a Lawrence Tech education should step up to the challenge of investing in the University's future. "We owe it to all the students who will follow to create a campus that is indicative of the quality education they will receive at Lawrence Tech," he said.

The Engineering Building,

which is the oldest structure on campus, will be 60 years old in just a few years. It will be integrated into the new complex that is expected to cost \$55 million and exceed 125,000 square feet.

"For the University to be competitive for exceptional students, top-notch faculty, and prestigious research opportunities, we need to have state-of-the-art facilities," he said. "Now is the time to provide a new building to perpetuate and maximize our outstanding educational history."

Lawson points out that Lockheed Martin, which is one of Lawrence Tech's top 10 employers, is a beneficiary of Lawrence Tech's "theory and practice" approach to education because the LTU graduates the company has hired have been "prepared to work in the real world."

He learned about manufacturing firsthand while still a student by working on GM production lines during the summer to help pay for his Lawrence Tech education. He began his career at McDonnell Douglas and in 1986 joined Martin Marietta, which merged with Lockheed Corporation in 1994.

Today he oversees such key aircraft programs as the advanced supersonic F-35 Lightning II stealth fighter, the F-16 Fighting Falcon combat aircraft, and the C-130J Super Hercules transport aircraft, as well as modernization and sustainment activities for the F-22 Raptor air dominance fighter, the C-5M Super Galaxy transport, the U-2 Dragon Lady high-altitude reconnaissance aircraft, and the P-3 Orion maritime patrol aircraft.

Lawson has held a broad range of positions in program management, engineering, advanced development, and business development. Before joining Aeronautics in 2004, he served



Larry Lawson received the Alumni Achievement Award from then-President Lewis Walker at the 80th Commencement Exercises in May.

as business development vice president of Lockheed Martin's Electronic Systems Business Area.

He has a master's degree from the University of Missouri and is a graduate of the Harvard Business School Advanced Management Program and an MIT Seminar XXI Fellow. He holds patents in

advanced signal processing discrimination technology.

Lawson serves on the board of the Air Force Association as chairman of the development committee. Named Inventor of the

Year in 1991 by Martin Marietta and Manager of the Year in 1997 and 1999 by Lockheed Martin, he received the Atlanta Father of the Year Award in 2007 and the Silver Knight of Leadership Award from the National Management Association in 2008. □EP

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Downtown Detroit benefits from Todd's leadership

The Campus Martius Park, the Detroit RiverWalk, and the renovated GM Renaissance Center projects have each helped transform the face of downtown Detroit. In his role as director of the City Planning Commission, Alumni Achievement Award honoree Marcell R. Todd, Jr., BSAr'91, played a key leadership role in bringing these and other projects to fruition.

Todd joined the City Planning Commission as an intern while still a student at Lawrence Tech and rose through the ranks. In 2005, the Detroit City Council unanimously voted to recommend him for appointment as director. He also oversees the staff of the Historic Designation Advisory Board, which was consolidated with the commission in 2007.

"I was truly honored and accepted the award mindful of the fact that the achievement is not merely the result of things I have done on my own, but rather that it is representative of my family and my upbringing and all those with whom I have worked collaboratively to advance the City of Detroit," Todd said. "My only regrets are, personally, that my late father, who passed in 2006, was not present to share in this occasion; and professionally, that the local economy and the plight of the City of Detroit aren't much better."

Other projects, working groups, or task forces Todd has worked on include the Jefferson Chalmers and Art Center Communities and the Detroit River International Crossing Study. He was a founding member of Detroit's Geographic Information System Users Group, Standards and Management Group, and Casino Permitting Task Force. He also is a member of the board of directors for the Detroit Land



Alumni Achievement Award honoree Marcell Todd spoke of his continued commitment to the City of Detroit at the 2012 Commencement Exercises held in Pontiac.

Bank Authority.

"The Alumni Achievement Award gives added thrust and inspiration to the work I do, as I now feel additional responsibility to live up to the merits of the honor and to further the University's reputation," Todd said.

Looking back over the years since he graduated, Todd is impressed with the growth of the University as evidenced by the number of graduates and the degrees now conferred. "Through these expanded offerings, Lawrence Tech becomes all the more appealing and more competitive across the board," he said.

Todd recalls that his study of architecture at Lawrence Tech was rigorous. As he was told during freshman orientation, most of the students entering the program did not complete it but often used the experience as a springboard to other fields. Such was the case with Todd as he developed an interest in urban planning during his junior year.

Todd was active with Lawrence

Tech's chapter of the American Institute of Architecture Students (AIAS), which grew into one of the largest in the nation while he was a member. He was nationally recognized as chapter president of the year in 1989-90, sharing the honor with a friend at the University of California Berkeley chapter.

Like many students, Todd was supported by his parents, educational loans, and whatever employment opportunities that would fit his schedule. A job at

Burger King paid a few bills until he was hired as an architectural draftsman with Roth & Associates in Troy in 1986. He worked there part time through 1989 while attending school. He was employed at Lawrence Tech as a teaching assistant and in facilities management through 1990.

Todd is also ordained in the African Methodist Episcopal Church and serves as an associate minister at the historic Bethel A.M.E. Church in Detroit. □CWM

Meyer named outstanding SAE student leader

Matthew Meyer, BSME'11, became the third Lawrence Tech student in seven years to win SAE International's Rumbaugh Outstanding Student Leader Award for 2011 during the SAE World Congress in Detroit in April.

The other LTU winners were Jill DeGowske, BSME'08, UCertEsk'08, for 2008 and Brian Dwornick, BSME'05, MSME'07, for 2005.

Established in 2002, this award recognizes an outstanding student leader of SAE International activities and includes a lifetime professional membership in SAE International.

Meyer was president of SAE International Collegiate Chapter at Lawrence Tech from 2008 to 2011 and was student manager of Blue Devil Motorsports, which he helped create in 2009.

Under his leadership, Lawrence Tech won first place in the student chapter display contest at the 2011 SAE International World Congress.

Late last year Meyer started what many SAE competitors would consider a dream job as a powertrain development engineer for General Motors' NASCAR Engine Development Group in Wixom. He expects to attend at least half a dozen NASCAR races a year as part of his job.

Previously he had worked at DENSO International America as a powertrain cooling design engineer on GM products.

Meyer continues to be active in SAE activities as an officer of the Young Member Board of the SAE Detroit Section – the largest in the country – and a committee member for the SAE International Motorsports Board.

"I'm involved in recruiting more students to SAE," Meyer said. "SAE has helped me out a lot."

□EP



Matt Meyer (center) accepts the SAE International Rumbaugh Outstanding Student Leader Award from Max E. Rumbaugh, Jr., and SAE President Frank Klegon.

Personal brand strategist featured on 'Black in America' series

Being one of the entrepreneurs featured in CNN's "Black in America" documentary series with Soledad O'Brien was a once-in-a-lifetime experience for Detroit-area personal brand strategist Hajj Flemings, MBA'03.

The fourth installment of the series, "The New Promised Land," chronicled the nine-week odyssey of Flemings and seven other minority tech start-up entrepreneurs as they lived and worked in California's Silicon Valley, networking with leaders of some of the nation's largest and most successful tech firms and venture capitalists. More than a million people around the world viewed the segment last November.

"The documentary addressed the fact that only one percent of venture capitalist-based start-ups have African American founders, even though African Americans represent 10 percent of the national population," Flemings noted.

In 2008, Flemings founded Brand Camp University, which focuses on entrepreneurial and digital technology training. Brand Camp University is an annual conference that is hosted in Detroit in October each year. Last year, he expanded into the New York City and Boston markets.

He is the author of "The Brand YU Life: Re-thinking Who You Are Through Personal Brand Management" and is working on

his second book, "The Startup You Economy," which is scheduled to be released later this year.

Flemings is also the CEO and co-founder of Gokit, an identity platform that enables people to capture and share experiences through their online presence. The company was launched in March at SXSW (South by Southwest) in Austin, Texas, one of the largest interactive conferences in the country, drawing 20,000 people annually.

He has been featured in *The Wall Street Journal*, CNN, TechCrunch, and Mashable, and travels around the country speaking as a brand strategist and tech entrepreneur. His clients include Disney, the U.S. Olympic Committee (Paralympics), the U.S. Department of Defense, and other Fortune 500 companies. He is also a BlackEnterprise.com columnist, writing about technology, social media, and branding for small businesses.

Earlier this year, Flemings received the inaugural "Elite 40 Under 40" award from Oakland County Executive L. Brooks Patterson for excellence in his field and contributions to the community. Forty were named to the list out of nearly 400 nominations, and Flemings was selected as the overall winner.

In making the announcement during his State of the County address, Patterson called Flemings "an incredible young man [who is] charging into the knowledge-based economy, providing strong leadership, and engaged in improving the quality of life in our region."

Flemings received a BSME from Michigan Technology University,

Hajj Flemings



PHOTO COURTESY OF MARK HILL, CNN

where he wrote the personal branding curriculum, but he had other ideas for his career, which brought him to Lawrence Tech.

"I wanted to transition into the marketing/branding space, but my background was totally geared towards automotive," he recalled. "So to reposition myself I knew I

had to expand my knowledge base in business, and I felt that getting an MBA would do that. Lawrence Tech's night program, which allowed me to continue working full time while getting a great education, has paid dividends for me." □CWM

Kroger hires alum as first sustainability director

As the Kroger Co. accelerates its sustainability initiatives and improves its environmental stewardship, it has turned to Suzanne Lindsay, BSCvE'01.

Lindsay joined the nation's largest grocery retailer in March as its first director of sustainability. In this role, she directs Kroger's internal sustainability initiatives and leads the company's Sustainability Leadership Team.

In making the announcement, the company described Lindsay as "a dynamic leader who brings great passion for sustainability and a business acumen that will help keep our efforts tied strictly to the bottom line."

Lindsay previously created and led sustainability initiatives at PetSmart, Inc. She also has worked extensively in real estate, development, and civil engineering.

"My interest in sustainability has evolved over time," said Lindsay, who grew up with recycling and a love of the outdoors as a way of life.

While working as a civil engineer, designing sites for big box retailers and their developers, she learned that the site design for these large shopping centers often required increased efforts to ensure water quality and preservation and conservation of wetlands, trees, and native species.

"I took what I learned from



Suzanne Lindsay

that experience and moved to the retailer side to work for PetSmart as a new store development manager, where I was responsible for the development of 50 to 60 new store builds a year in the western United States and Canada," she said. "I started asking questions and trying to integrate green building principles into the prototype, and it has grown from there."

"Getting my degree from Lawrence Tech was definitely a jumping-off point in my career and laid the foundation for the necessary critical-thinking and problem-solving skills to find creative solutions to today's challenges," Lindsay said.

She recalled that when her senior project team designed "Eagle Run International Airport," she was responsible for the environmental section. With help from Associate Professor Edmund Yuen, who now chairs the Department of Civil Engineering, she created a plume map to analyze the impact of airport operations on the air quality in surrounding areas.

"I guess I was destined to end up in the environmental arena," she said. □CWM

Lawrence Tech confers honorary degrees on two business leaders

Sidney Forbes and Juma Al Majid were granted honorary doctorates in recognition of their contributions to commerce and society at Lawrence Tech's 80th Commencement Exercises held May 12 at the Ultimate Soccer Arenas in Pontiac.

Forbes, founder and senior partner of The Forbes Company, received an honorary Doctor of Business Administration degree. Al Majid, a business leader and philanthropist in Dubai, which is part of the United Arab Emirates, received an honorary Doctor of Humanities degree.

Over 40 years ago Sidney Forbes founded The Forbes Company, a nationally recognized developer, owner, and manager of luxury shopping destinations throughout Michigan and Florida. The Southfield-based firm's landmark retail properties include the highly acclaimed Somerset Collection in Troy.

"Mr. Forbes was among the first to recognize that the shopping experience is for many a form of entertainment, an event," said James Ryan, BSArE'66, who was chief designer at The Forbes

Company for over 30 years. "He set a much higher standard than what other developers viewed as acceptable, higher than even some retailers themselves. What makes his projects really work is that he has created experiences that are elegant, timeless, and memorable."

Forbes has a long history of local philanthropy, supporting the arts, medical research, and education. His interests have included the Detroit Institute of Arts, the Detroit Symphony Orchestra, Cranbrook Schools, Karmanos Cancer Institute, the Jewish Federation of Metropolitan Detroit, and Beaumont Health System, whose Royal Oak hospital houses the Madeline & Sidney Forbes Family Orthopaedic Center.

Juma Al Majid was a pearl diver as a boy and then a sea trader. In 1950, he founded the Juma Al Majid Group of Companies that has grown into one of Dubai's leading business, social, and charitable enterprises. It now includes more than 40 companies engaged in engineering, retail, automotive, and investment activities.

In the early 1950s Al Majid co-

founded the first charitable society to help Dubai's needy, creating secondary schools for boys and for girls. In 1983, he established the National Charity Schools that have helped some 9,900 needy expatriate students obtain a free education.

In 1987, recognizing limited higher educational opportunities for women, he established the Islamic and Arabic Studies College in Dubai. Some 3,700 students,

including 2,500 women, are now attending the college at no cost. Over 4,100 students, including 3,300 women, have graduated.

Al Majid also worked with others to establish the Beit Al Khair Society in 1990, aiding poor citizens, needy students, and victims of disasters. In 1991, he established a public library that has since expanded into the Juma Al Majid Center for Culture and Heritage, which helps collect and restore historic documents and manuscripts, and make them available to scholars and researchers worldwide.

The commencement address was delivered by Nathan Forbes, Sidney's son who is managing partner of The Forbes Company.

Forbes urged the graduates to find work that they love and believe is beneficial and meaningful. "Keep looking until you find it and don't settle for anything less," he said.

He asked the class of 2012 to consider "who you want to be and what will your legacy be." □BJA



Nathan Forbes



This year's honorary degree recipients, Sidney Forbes (left) and Juma Al Majid, were introduced to each other by then-President Lewis Walker prior to the 80th Commencement Exercises.

Stay connected with Lawrencetech.net

Find information on upcoming events at your alma mater – alumni meetings, campus events, lectures, free programs, and more. There are many opportunities to connect with LTU and your fellow alumni.

Go to www.lawrencetech.net to update your information, register for events, find answers to frequently asked questions, get information on alumni boards and cabinets, view university news releases, and join discussion groups.

Mark your calendars for Homecoming 2012.

Sept. 23–29 will be a fun-filled week, culminating with Homecoming Day on Saturday, Sept. 29, when there will be music, alumni events, student activities, two varsity soccer games, and a varsity volleyball game. Visit www.ltu.edu/homecoming

to get the latest updates.

Alumnus plays key role aiding combat operations

Christopher Scott, MBA'08, heads a robotic controls team at the U.S. Army TACOM Life Cycle Management Command that is working to standardize the controls and other systems in all robotic ground vehicles used by the armed forces and their contractors.

The military has deployed more than 5,000 ground robotic units in Iraq, Afghanistan, and other areas, primarily to deactivate explosive devices. Since 2005, more than 750 of them have been destroyed or battle damaged.

"Every robot destroyed means lives saved," Scott explained in an interview with *Crain's Detroit Business*. The systems engineer was recently profiled in the publication's "Focus: 20 in their 20s" section for his work at the U.S. Army Robotic Systems Joint Program Office.

Scott leads the Working

Integrated Product Team that developed the controls section of the unmanned ground vehicle interoperability profile at the TACOM Life Cycle Management Command, based at the Detroit Arsenal in Warren.

Ground robots produced by a variety of manufacturers often have different systems. According to Scott, having common graphics and controls will enable soldiers to complete various missions with different robots with greater efficiency.

Scott has headed the robotic controls team since late 2010, overseeing some 30 people. Before shifting his career to the robotics field, he had worked in high-performance computing in the modeling and simulation area.

"Lawrence Tech helped prepare me for my career by providing me with an outstanding business and management background," Scott

PHOTO COURTESY TARDEC STRATEGIC COMMUNICATIONS



Christopher Scott examines a ground robotic vehicle that has been designed to locate and neutralize explosive devices in combat zones.

said. "Several courses that had the largest impact on my career, that I constantly utilize knowledge from, are strategic management, leadership and management, and business ethics. These courses were taught by my favorite professors in the program, Chris Emmons, Patty Castelli, and Frank Cusmano, respectively.

"The program was excellent, and I really enjoyed the case-study method used in many of the classes," he added. "This allowed me to come up with potential

solutions to real-life organizational issues, as if I was a leader in those specific companies."

Scott is also active in the community, doing science, technology, engineering, and mathematics (STEM) outreach in Detroit Public Schools to get more youth excited about careers in those fields. He also volunteers for the American Cancer Society and the March of Dimes. □CWM

Foster and Meganck win Donley Awards

Krysta Foster and Ryan Meganck are the 2012 recipients of the Ed Donley Distinguished Graduate Awards, presented by the Alumni Association at the Scholarship Banquet in April.

The annual award was established in 2002 and renamed in honor of Ed Donley, BME'43, in recognition of his extraordinary leadership and philanthropic contributions. The Alumni Association's board of directors honors one male and one female graduating student for excellence in academic, community, and campus leadership. The two recipients receive a gold signet ring courtesy of Balfour Artcarved Rings.

Meganck completed three majors this spring – a Bachelor of Science in Electrical Engineering

with a concentration in electronics, a Bachelor of Science in Mechanical Engineering with the Entrepreneurial Certificate, and a Bachelor of Science in Humanities, Honors College. He has maintained a 3.99 grade point average (GPA) while also working



Ryan Meganck and Krysta Foster have won the 2012 Ed Donley Distinguished Graduate Awards.

as an intern off campus.

"Ryan's classwork is exceptional, well-organized and legible and he represents why the Lawrence brothers founded our University ... to support the working adult," one nominator wrote.

Meganck has demonstrated leadership in numerous professional organizations and has also conducted a significant amount of undergraduate research resulting in product design, prototyping, and a patent application.

Also accomplished in the arts and athletics, he has performed at Carnegie Hall in New York City and was Lawrence Tech's tennis champion two years in a row.

He will pursue a master's degree in electrical engineering at Stanford University.

Foster is a business management major who has received academic and leadership honors from the Order of Omega Honor Society, and was recognized as the 2011 Student Leader of the Year. She also won the 2011 MLK Jr. Community Youth Service Award from the City of Southfield.

Also in 2011, Foster became the first LTU student to be named Student Newsmaker of the Year by *Crain's Detroit Business* and was honored by Gov. Rick Snyder at a banquet at Joe Louis Arena. She was also selected as an intern at *Crain's Detroit Business*.

Foster was instrumental in the Leukemia and Lymphoma "Light the Night" Walk on campus, an event that raised over \$440,000 overall in southeastern Michigan. Through all of these activities and leadership initiatives, she maintained a 3.4 GPA. □EP

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Class of 1962 joins the Jubilee Society

Eleven members of the Class of 1962 attended the Jubilee Society Brunch in April for their induction into the exclusive group that honors alumni of Lawrence Tech and the Detroit Institute of Technology who graduated 50 or more years ago.

Representing the class of 1962 at the induction ceremony were Dennis Bielawski, David Drewek, Donald Halberda, Jack Heitchue, Lee Johnson, George Liles, A. Leon Linton, Clement Martzloff, Joseph Owczarek, Jim Prosser, Donald Reimer, and Robert White.

Linton served as the master of ceremonies. He has been a strong supporter of Lawrence Tech, and the department that granted him his degree has been renamed the A. Leon Linton Department of Mechanical Engineering.

"If you have not done so already, I want you to consider helping this great institution of higher learning reach future goals by being a giver, a contributor to our school to help LTU become the premier university in this part of our world," Linton told his classmates, noting that there is a challenge grant that can double the contribution.

The Jubilee Society members also heard from Krysta Foster, one of this year's winners of the Ed Donley Distinguished Graduate Award.

Retired Professor George Schneider, ACmT'73, was on hand for the presentation of the senior design award that he has funded. Ken Cook, chairman of the Department of Engineering

Technology, presented the award to Matt Calahan, Nancy LaBelle, and Rory Walters. (See related story on page 15.)

The Jubilee Society also heard from then-President Lewis Walker. Following the brunch, many of the alumni enjoyed viewing senior projects on display in the gallery of the Architecture Building. □EP



Alumni from the 1940s who attended the Jubilee Society Brunch included (left to right) H. George Johannessen, BSChE'41, Chester Kus, BSME'48, Robert Lemon, BSME'49, Len Hendricks, BSCvE'49, and Peter Egigian, BSEE'48.



New inductees in the Jubilee Society from the class of 1962 included (left to right in the back) David Drewek, BSME'62, Robert White, BSEE'62, Joseph Owczarek, BSIM'62, Don Reimer, BSIM'62, George Liles, BSME'62, and Dennis Bielawski, BSEE'62; and in the front row, Lee Johnson, BSIM'62; Donald Halberda, BSME'62, Clement Martzloff, BSME'62, Jack Heitchue, DIT-BBA'62, and A. Leon Linton, BSME'62

Interior architecture led to a career at General Motors



Heather Scalf enjoyed showing off the results of years of work on the interior of the 2012 Buick Encore at this year's North American International Auto Show.

When the new Buick Encore, a small luxury crossover SUV, attracted media attention at the 2012 North American International Auto Show (NAIAS) in Detroit this past January, Heather (Downs) Scalf, BSIA'01, found herself in the limelight for her supporting role in designing the car's interior.

Designing car interiors wasn't a career focus when Scalf studied interior architecture at Lawrence Tech. In fact, it was about a year after graduation while working as an assistant for a residential interior designer that she learned about opportunities in the Color and Trim Studio at General Motors.

Scalf said the decision to attend LTU was inspired by her father (Ron Downs, BSCE'82). "My parents have always encouraged me to follow my interests, talents, and passion," said Scalf.

"I had been working as a contract employee for about 15 months when GM extended the offer to join the staff at the Warren Technical Center," said Scalf. "Needless to say, I enthusiastically accepted."

That was in 2003. Since then, she traveled to Germany, China,

and South Korea to work with her Color and Trim counterparts designing vehicles for different markets. She also coordinates with her peers from materials engineering, marketing, and purchasing. Last year she was promoted to the position of lead designer.

"As a designer, you want to create beautiful spaces with beautiful themes and color combinations," said Scalf. "In automotive design, you collaborate with many people over a long period of time; it's never just a one-person effort."

The skills she developed as an interior architecture student have served her well in her fast-paced career at GM. "LTU created a solid foundation of creative problem solving, critical thinking and teamwork that I use every day," she said.

Her job involves constantly looking ahead to anticipate developing trends in architecture, interior design, and fashion. Anticipating the popularity of a certain style of stitching or a new approach to combining colors is key when deciding on a vehicle interior three to five years

before it publicly debuts.

The saddle-and-cocoa color combination of the Encore model at the North American International Auto Show was chosen close to two years ago, but it's in line with current fashion trends, Scalf noted. Her team will change up the colors in future models in anticipation of customer expectations for luxury.

Color and Trim Studio designers also consider the brand's aesthetic vision, customer tastes

and regional preferences when making decisions regarding a vehicle's palette and materials. For instance, a recent GM vehicle for sale in China matched the accent color with jet black to create a more contemporary, high-contrast look, while the North American team elected to pair the accent color with a dark brown for a warm, comfortable feel.

"I love my work at GM Design and credit the quality of the education and rigorous curriculum at LTU for helping me achieve my personal and professional goals to date," said Scalf. "It's an exciting time to be in the automotive industry, especially the field of design." □EP



Congratulations to Dr. Virinder K. Moudgil

as he enters a new phase of his distinguished career as president of Lawrence Technological University.

We offer our deepest gratitude to Dr. Moudgil for 36 years of outstanding service to Oakland University as a faculty member, researcher and provost.

The legacy he leaves at Oakland will benefit faculty and students for generations to come.

With profound appreciation

President Gary D. Russi
and the entire Oakland University community

**OAKLAND
UNIVERSITY.**

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Alumni Notes

Alumni Notes includes news gathered from alumni, their families and friends, corporate news releases, and Michigan newspapers. Due to space limitations in this issue, the editors were not able to print all the submissions we have received. Those submissions and others will be published in the winter 2012–13 issue. Use the form on page 33 to share news about you!

1960–1979



Daniel W. Winey, BSAr'74, BA'75, FAIA, IIDA, is the managing principal of the Pacific Northwest and Asia Region for the architecture,

design, and development firm Gensler. Dan has directed high-profile Gensler projects such as the Shanghai Tower, the second-tallest building in the world at 2,073 feet scheduled for completion in 2014. In 2010, he received Lawrence Tech's Distinguished Architecture Alumni Award.



Alan H. Cobb, BSAr'76, was named to the board of directors of the Community House in Birmingham. Alan has been with

Albert Kahn Associates, Inc. in Detroit since 1976. He also has served on the board of the Architecture and Design Chapter of the Alumni Association. In 2000, he received the University's Distinguished Architecture Alumni Award.

Ronald J. Reinholz, BSIM'76, DVM, is currently a semi-retired entertainer, working as a pianist, ventriloquist, magician, and stand-up comedian.

David B. Richards, BSAr'77, AIA, LEED AP, was promoted to chief operating officer at Rossetti, an architectural firm in Southfield. He has been with the company for 33 years.

Frank X. Arvan, BSAr'78, is the 2012 president of the American Institute of Architects (AIA) Detroit. He is also the exhibit designer for temporary installations at the Detroit Institute of Arts, including the recent "Rembrandt and the Face of Jesus" exhibition. His firm, FX Architecture, is housed in an award-winning, 2,800-square-foot home he built for himself in Royal Oak in 2002.

Ralph L. Robinson, BSEE'78, and his wife, Laurie, celebrated their 50th wedding anniversary on Aug. 26, 2011. Formerly with Ford Motor Co. for more than 40 years, Ralph now works at the University of Michigan Transportation Research Institute. The Robinsons live in Plymouth.

1980–1989

John E. Enkemann Jr., BSAr'80, was appointed by Gov. Rick Snyder to a four-year term on the State Fire Safety Board. John is executive vice president and CEO of Albert Kahn Associates Inc. in Detroit.



Paul R. Urbanek, BSAr'81, BA'82, FAIA, LEED AP, design director and vice president at the Detroit office of the architecture and engineering

firm SmithGroup, has been elevated to the American Institute of Architects (AIA) College of Fellows. He was recognized at an investiture ceremony during the AIA's National Convention and Design Expo held in Washington, DC, in May.



Dennis G. Kolar, BSCE'85, PE, was named managing director of the Road Commission for Oakland County. He was previously deputy managing director/county highway engineer. In an interview with *The Oakland Press*, Dennis said he looks forward to the challenges of leading the agency that maintains the largest county road system in the state. Dennis has more than 32 years of experience in the road business. He began his career with the Michigan Department of Transportation, where he served for six years. After joining the Road Commission for Oakland County, he spent 11 years in the Design Division of the Engineering Department. From there, he transferred to the Highway Maintenance Department before being promoted to director of the Central Operations Department and later promoted to the deputy managing director position.



Mark Nickita, BSAr'87, BA'89, MA'01, was appointed by the Birmingham City Commission to serve as mayor for 2012. Mark was a member of Birmingham's planning board for over a decade prior to being elected to the city commission in 2009. He is the co-founder of Archive Design Studio, a Detroit-based multidisciplinary architectural firm that specializes in developing urban centers as more people-friendly

environments. The firm's projects include a wide range of mixed use, adaptive reuse, renovation, and new infill projects – mostly in urban settings. Signature work includes the Canfield Lofts and the Vinton Building, both in Detroit, and the award-winning Far East Side Master Plan for Detroit. Mark also was involved with several urban design projects for Toronto as well as with a team of professionals that developed a planning strategy with the state of Mississippi to reestablish 70 miles of coastline after Hurricane Katrina.

James A. Hamilton, BSBA'86, was appointed to the board of directors at Commtouch, an Internet security services company based in Sunnyvale, CA. James is CEO of CPSG Partners, a professional services and consulting company based in Houston.

Thomas A. Hamway, BSEE'86, DDS, is an orthodontist in the Brighton area. He embarked on a new career path in the early 1990s after working as an electrical engineer for two years. His practice, TNT Orthodontics, was featured in an article in the *Livonia Observer* last year.

David W. Wright, BSME'86, is the founder and CEO of Englewood, CO-based Wi Inc., a medical device contract design and development company. In 2004, Wi was a Gold Winner of the Medical Design Excellence Awards for its LifePort Kidney Transporter.



Kirk T. Steudle, BSCE'87, director of the Michigan Department of Transportation, was elected president of the American

Association of State Highway and Transportation Officials for 2012. Kirk has led MDOT since 2006. In 2008, he received Lawrence Tech's Alumni Achievement Award.

Dirk J. Arnold, BSAr'88, was the subject of an exhibition called "Dirk Arnold: Endangered Architecture" at the Temple Gallery in Tucson, AZ. The exhibit showcased Dirk's framed shadowbox miniatures of Tucson's historic building facades, many of which have disappeared in the path of urban sprawl.

Jennifer A. Hitchcock, BSME'88, MGLM'09, was named interim director of the U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) in Warren. She will serve in this role until a permanent director is selected. Jennifer received Lawrence Tech's Alumni Achievement Award in 2005.

Lynda K. Jeffries, BSBA'89, was elected chairperson of the Presbyterian Villages of Michigan Board of Directors. Lynda is a senior consultant with The Leadership Group LLC and has taught leadership and nonprofit management at Lawrence Tech as an adjunct professor.

Phillip P. Putney, BSBA'89, CPA, is the owner of AFS Wealth Management LLC in Farmington Hills, an independent financial adviser offering securities and advisory services through Centaurus Financial Inc.

1990-1999

Tammy S. Luty, ACS'90, BSBA'93, was elected president of the Farmington PTA Council, which represents 17 early childhood, elementary, upper elementary, middle, and high school PTAs and PTSAs in Farmington and Farmington Hills.

Dale P. Wolicki, BSAr'90, BAr'92, MAr'10, is an historical architect in Bay City. When he was a student at Lawrence Tech, he designed the front portico for a historic home that was featured in the Zonta Club of Midland Holiday Home Tour during the 2011 Christmas holiday period.

John W. Carney, BSMCS'93, was named executive director of information technology at Jervis B. Webb Co. in Farmington Hills. He previously worked as the IT director for Faurecia.

Kimberly A. Ziomek-Matte, MBA'95, current president and founder of Automotive Women's Alliance Foundation, joined Novi-based Paragon Leadership International as vice president, strategic alliance and business development. In 2005, Kimberly received Lawrence Tech's Ray Award recognizing the leadership and service of alumni volunteers at the University.

2000-2011

Erin A. Kopkowski, BSAr'00, was elected to the South Lyon City Council. Erin is an architect who has owned her own company for 13 years.

Jeffrey M. Roman, BSCvE'01, PE, co-owner and director of engineering at EnSite Inc. in Fort Myers, FL, was named to *Gulfshore Business Magazine's* 2011 list of the Top 40 Under Forty leaders in southwest Florida. He was chosen for his business success and his contributions to the community.

Rosemary K. Bayer, CIMBA'03, is chief inspiration officer and co-founder of ardentCause L3C, a Michigan software company serving the nonprofit industry.

Raynard E. Durham, MSAE'03, vehicle line executive at Chrysler Group LLC, received the President's Award at the BEYA STEM Global Competitiveness Conference in Philadelphia. The Black Engineer of the Year Awards (BEYA) is the nation's largest annual gathering of STEM (science, technology, engineering, and math) professionals and leaders committed to increasing the percentage of people from historically under-represented communities in the technology workforce.

Kevin P. Leslie, BSAr'04, Mar'05, RA, joined the architectural firm LPA as lead project designer for the firm's new downtown San Diego studio, where he is currently focusing on design projects for K-12 and higher education markets in Southern California.

Consider another DEGREE OF SUCCESS

In recent years, Lawrence Tech has greatly expanded to over 100 degree and certificate programs – from associate through the bachelor's, master's, and doctoral level.

There are plenty of options for taking individual courses or earning your next degree during the day, evenings, weekends, or online.

Explore the full range of offerings from a single course to fast track certificates to complete degrees at www.ltu.edu. And when you're ready to sign up or ask more questions, visit www.ltu.edu/futurestudents.

Joseph M. Lapinski, BSME'06, PE, LEED AP, a mechanical engineer at SHW Group, achieved his professional engineer's license. Headquartered in Texas, SHW Group has a local office in Berkley.

Kelly J. Dornoff Gattuso, BSME'06, is a systems specialist engineer at NASA.

Brett C. Richardson, BSME'06, joined Madison Heights-based Sika Automotive Division as program manager – domestic group. His responsibilities include management of key programs for Ford and other domestic customers.

Steven A. Endres, BSAr'07, was promoted to associate at Grissim Metz Andriese Associates, a landscape architectural design firm in Northville.

Pierre H. Fuller, BSAr'07, BSCvE'07, a graduate student at the Massachusetts Institute of Technology, was one of two students invited to give a talk at MIT's 37th Martin Luther King, Jr. celebration this year. The 27-year-old Flint native is considering going to law school after he gets his doctoral degree.

Alexander S. Kraus, BSAr'08, MAr'10, graduated from Officer Candidate School at Fort Benning in Georgia and was commissioned as a second lieutenant in the U.S. Army.

Tristan Maerz, BSBmE'09, is a research engineer in Orthopedic Research at Beaumont Health System, where he coordinates sports medicine and tissue engineering projects. He is also working toward a PhD in biomedical engineering.

John R. Roe, BSET'10, is a general manager at Sensor Manufacturing Co. in Novi. John earned his degree from Lawrence Tech while working full-time at Sensor. He was featured in a recent article in the *Dearborn Heights Press and Guide*.

Danielle Beski, BSBmE'11, is an application engineer on the Biomedical Engineering Team at Ann Arbor-based Materialise USA. She works with university customers across the United States and Canada that are looking for software solutions for their research needs.

Gyongyi Konyu-Fogel, DBA'11, joined the faculty of Walsh College in Troy as professor of management. He was previously an associate professor at Bemidji State University in Minnesota.

Amy Tsang, BSME'11, was accepted into the PhD program in mechanical engineering at UCLA.

Did you meet your spouse at Lawrence Tech?

Did you meet your spouse at or through Lawrence Tech? Tell us how and when.

We're developing a magazine article on the topic and seek stories from students, alumni, and staff who found marital bliss via a campus connection.

Email bannett@ltu.edu or write the editor at the address on the inside front cover.

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.

Albert W. Jones, MS'33, of Hendersonville, NC, Aug. 18, 2011. Mr. Jones, who lived to be 100 years old, was survived by his wife, Nell.

Ralph C. Emig, Jr., BSEE'41, BME'44, of South Lyon, March 7, 2012. Mr. Emig taught math and engineering at Lawrence Tech for 10 years before going on to become a respected automotive engineer at General Motors for more than 30 years. He was an accomplished captain of Lawrence Tech's varsity tennis team and later coached the sport here. He held several leadership roles in the former Russell Lawrence Foundation and was secretary and 1946-47 president of the Alumni Association. He received the Alumni Achievement Award in 1967. He was survived by his wife, Dorothy, two sons, and three daughters.

Raymond S. Timm, BSEE'42, of Rockville, MD, Dec. 23, 2011. Mr. Timm joined Naval Research Laboratories after graduation. He was survived by five sons and three daughters.

George Canvasser, BSME'43, of Las Vegas, April 19, 2009. Mr. Canvasser was director of the Properties Committee at Sun City Summerlin, an age-restricted community of 14,000 residents. He was survived by his wife, Ruth, a son, and a daughter.



John R. Fawcett, BSME'43, of West Bloomfield, Feb. 4, 2012. Mr. Fawcett was a popular former instructor at the University and served many years as an engineer with Ford Motor Co. He devoted 20 years of active service to the Alumni Association board, from 1967-87, and was president in 1970-71. For several years, he gathered material for and helped edit the "Alumni Notes" section of this magazine. He and his late wife also established the John and Margaret Fawcett Endowed Scholarship at Lawrence Tech. In 2005, Mr. Fawcett received the Ray Award, the University's highest recognition of outstanding volunteer leadership and service. He was survived by four children, including a son, David, an adjunct instructor at Lawrence Tech in math and computer science.

Ralph Hahn, BEE'43, of Sun City West, AZ, Dec. 15, 2011. Mr. Hahn worked for 37 years for Consumers Power Co., retiring in 1983 as the general manager for the Southeastern Region serving Oakland and Macomb counties. He was survived by his wife, Estella, two daughters, and two sons.

Robert R. Mandy, BSEE'45, of Bingham Farms, Dec. 23, 2011. He was survived by two sons and two daughters.

John Dorian, BSME'48, of San Jose, CA, Aug. 25, 2011. Mr. Dorian worked as an automotive engineer until his retirement in 1985. He was survived by his wife, Alice, and four daughters.

Leon C. Koziorowski, BSIE'48, of Dearborn Heights, Nov. 30, 2011. He was survived by his wife, Lottie, a son, and a daughter.

Serge Kulmatycki, BSIE'48, of Clinton Township, July 1, 2011. He was survived by his wife, June, two daughters, and a son.

James R. Landis, BSChE'48, of Rochester Hills, Oct. 27, 2011. He was survived by his wife, Catherine, and four children.



James W. Hobson, BSIE'49, of Sterling Heights, Sept. 25, 2011. Dr. Hobson was an accomplished higher education administrator who worked his way up from student switchboard operator to vice president of business services at Lawrence Tech under President E. George Lawrence in the 1950s. He oversaw Lawrence Tech's move in 1955 from Highland Park to Southfield. Students dedicated the 1959 L-Book in his honor. He earned a master's and doctoral degree from Michigan State University, and later helped develop business operations for new community college districts in St. Louis, Mo., and Oakland County, Mich. A captain in the Eighth

Air Force during World War II, he was a co-pilot during the first daylight raid on Berlin when his B-24 was shot down and he spent 15 harrowing months in German POW camps. Dr. Hobson enrolled at Lawrence Tech in 1946 under the GI Bill. He retired as vice chancellor of administration for the University of California Los Angeles. He was survived by his wife, Greta, and two daughters.

Anthony S. Ryff, BSEE'49, of San Luis Obispo, CA, May 16, 2011. Mr. Ryff's daughter, Gail, said he "took great pride" in Lawrence Tech.

Glen G. Greene, BSME'50, of Dearborn, Jan. 20, 2012. Mr. Greene retired from Ford Motor Co. as a body engineer. He was survived by his wife, Mabel, and two daughters.

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. 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

Albert J. Shobe, BSME'50, of Ida, Oct. 5, 2011. He was survived by two daughters and a son.

Josh T. Barnes, BSCvE'51, PE, of Charlevoix, Jan. 25, 2011. He was survived by five children.

Jack E. Harrington, BSME'51, of Moorestown, NJ, Sept. 22, 2011. He was survived by his wife, Arlene, and three children.

Alvin R. Prevost, BSArE'51, AIA, of Troy, Feb. 28, 2012. Mr. Prevost worked at Minoru Yamasaki & Associates on such landmark projects as the Century Plaza Hotel in Los Angeles, the World Trade Center in New York, and Temple Beth El in Bloomfield Hills. He later led his own practice. He received Lawrence Tech's Alumni Achievement Award in 1974 and led Lawrence Tech's Presidents Club beginning in 1982 when it was the University's highest-level donor organization. In 1984, he was elected president of the metro chapter of the Construction Specifications Institute. He was survived by two daughters and a son.

Larry P. Diedrich, BSIE'53, of Westland, Feb. 3, 2012. He was survived by his wife, Joan, two sons, and a daughter.

Harold S. Wilson, BSEE'53, of Warren, March 2, 2012. He was survived by his wife, Claire, three sons, and a daughter.

Leon Kocol, BSME'55, of Cocoa, FL, Oct. 29, 2011. He was survived by five children.

Thomas N. Easterday, BSIM'57, of Hot Springs, AR, July 2, 2011.

Joseph C. Marrocco, BSIM'57, of Macomb, Oct. 13, 2011. He was survived by his wife, Penny Sue, who said Mr. Marrocco helped pay for his tuition by cutting the grass, trimming trees, and doing other landscaping on campus as a student.

Richard A. Pomeroy, ARACT'57, of Howell, Aug. 26, 2011. Mr. Pomeroy was a lifelong residential and commercial builder. He was survived by his wife, Norma, two daughters, and a son.

Donald D. Hurd, BSME'59, of Stuart, FL, Oct. 16, 2011. He was survived by his wife, Elinor, two sons, and a daughter.

Edward R. Ashor, BSArE'60, of Bloomfield Township, Feb. 17, 2010. Mr. Ashor was survived by his wife, Maryann, and two sons.

John L. Frye, Jr., AEET'60, of Orion, Aug. 17, 2011. He was survived by his wife, Marie.

Lynn F. Hannert, AMT'60, of Chesterfield Township, Dec. 8, 2011. Mr. Hannert was a longtime engineer in the automotive industry. He was survived by a son and a daughter.

Donald J. Whalen, AEET'60, of Milford, Nov. 9, 2011. He was survived by his wife, Sandra.

Gerald L. Durkin, ABCT'61, of South Lyon, Feb. 6, 2007. He was survived by his wife, Lillian.

Arthur J. Hnizdil, BSEE'61, of Fenton, March 21, 2007. He was survived by his wife, Eleanor.

George Y. Malcolm, BSIM'61, of Tucson, AZ, Oct. 10, 2011. He was survived by his wife, Kate, and four children.

Carl H. Preuss, BSME'61, of Kirkland, WA, Jan. 2, 2007.

Dale H. Raffler, BSME'61, of Rochester Hills, March 27, 2011.

Edward Kiefer, BSME'62, of Manistee, Nov. 3, 2011. Mr. Kiefer was survived by his wife, Patricia.

Robert J. Schlaff, BSIM'62, of Denver, June 12, 2011.

Norbert T. Jankowski, BSME'63, of Troy, Feb. 22, 2012. He was survived by his wife, Helen, three daughters, and a son.

Stephen R. Rebain, BSEE'63, PE, of Brighton, Dec. 26, 2011. After working for 35 years at Detroit Edison, Mr. Rebain started a tech company and jointly held several patents with his business partner. He was survived by his wife, Lee Ann, and a daughter.

Noah E. Touchton, AEET'63, of Sorrento, FL, Aug. 20, 2011.

Gerald F. Kinsel, BSIM'64, of Harrison Township, Nov. 16, 2011. He was survived by his wife, Gail, two sons, and a daughter.

Robert E. Dow, AEET'65, of Collierville, TN, June 25, 2011. Mr. Dow worked for IBM for 33 years. He was survived by his wife, Julia, two sons, and two daughters.

William R. Cole, AEET'66, of Redford, Nov. 4, 2011. Mr. Cole worked at Ford Motor Co.'s test labs in Allen Park. He was survived by his wife, Karen, and three sons.

Norman A. Planck, Jr., BSME'66, of Lakeport, CA, Dec. 28, 2011.

Marvin F. Haps, AMT'68, of Center Line, Feb. 8, 2012. He was survived by three sons and two daughters.

James E. Bradley, BSIM'72, of Lady Lake, FL, Jan. 1, 2012.

John A. Balconi, BSCE'78, of Wolverine Lake, Jan. 5, 2012. He was survived by his wife, Cheryl, and two daughters.

Stephen M. Soltis, BSPH'78, of Madison Heights, Oct. 16, 2011. A former Consumers Power Co. employee, Mr. Soltis was survived by three brothers.

Thomas P. Linehan, AEET'79, BSEE'86, PE, of Clarkston, Oct. 9, 2011. Mr. Linehan had a long career as electrical engineering director at DME Co., where he was awarded multiple patents for the development of innovative temperature control processes. He also served on the board for Ferris State University's Plastics

Program and received numerous awards for technical papers he wrote and presented at conferences worldwide. Mr. Linehan was survived by his wife, Anna, and two children.

Rev. Mark G. Bidwell, BSBA'82, of Ferndale, Jan. 3, 2012. After working for a time for General Motors, Mr. Bidwell began a ministerial career at the Metropolitan Community Church-Detroit. He was survived by a son and a daughter.

John C. Sonnenberg, BSME'90, of Caro, Oct. 12, 2011. Mr. Sonnenberg was employed by Organic Bean and Grain. He was survived by his wife, Tamara, two daughters, and a son.

Karam Hanna, BSAr'11, of Novi, Nov. 27, 2011.

DIT IN MEMORIAM

William C. Turland, BSAr'57, of Troy, Dec. 19, 2011. Mr. Turland worked for 46 years at Chrysler and then for 10 years at Morrison Knudsen and its successor, the Washington Group. He was survived by his wife, Joyce, and a daughter.

THE LAWRENCE TECH FAMILY

George Kane – longtime educator

George Kane of South Lyon, a veteran educator and world traveler who taught on the adjunct faculty at Lawrence Tech for more than 36 years, died Jan. 7, 2012. Mr. Kane also taught industrial arts for 34 years at Redford High School. During the summers, he was an automotive designer for Ford, Chrysler, General Motors, and American Motors. He served in Germany with the 9th Armored Division during World War II. Mr. Kane was preceded in death by his wife, Vivian. Survivors include three daughters and two sons. □ BJA

Frank A. Schaldach – landscape architect

Frank A. Schaldach of Hillsdale, a registered forester and landscape architect who taught courses at Lawrence Tech and Oakland Community College, died Nov. 23, 2011. Mr. Schaldach founded Schaldach Tree and Landscape in 1979, serving residential and public spaces in Hillsdale County and beyond. He also worked as a forester for the city of Hillsdale. He was survived by his wife, Susan Howard, a daughter, a son, and a stepson. □ BJA

Giving Societies 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.



Generous support from donors helps with many student activities, including senior projects such as the Formula SAE, Formula Hybrid SAE and SAE Baja racing teams. Some of the team members posed with the 2012 competition vehicles.

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.

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.



Commencement is a time for optimism, when new Lawrence Tech graduates can look ahead to the next chapter in their lives that will offer both opportunities and challenges.

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 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.

For more information on Lawrence Tech giving clubs and societies, please contact Dino Hernandez, assistant vice president for University Advancement and executive director of the Proud Heritage Bold Future Campaign, at 248.204.2306 or dhernande@ltu.edu

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.

Donor Honor Roll

LAWRENCE TECHNOLOGICAL UNIVERSITY 2011 DONOR HONOR ROLL

Listing within society and club levels reflects gifts made through Dec. 31, 2011. All efforts have been made to ensure the accuracy of our donor lists. Please contact the Office of University Advancement to report any errors.

A. Alfred Taubman Society

Mr. and Mrs. Ed Donley, BME'43, HD'76, HD'87
+Mr. Orval A. Opperthausen, BSIE'48, HD'06, and Mrs. Ann T. Opperthausen
Mr. and Mrs. A. Alfred Taubman, HD'85

Ed Donley Society

Anonymous
+Dr. Wayne H. Buell, HD'58, BChE'36, and +Mrs. Vita S. Buell-Craig
The Chrysler Foundation
+Mr. Hawkins Ferry
Ford Motor Company Fund
General Motors Co.
General Motors Foundation
Mr. and Mrs. John Harlan
+Mr. Walter T. Hartung, BSME'48
The Kern Family Foundation
Anonymous
KnowledgeWare, Inc.
The Kresge Foundation
Mr. and Mrs. A. Leon Linton, BSME'62
Michigan Future, Inc.
+Mr. John P. Parke, Sr., and +Mrs. June Parke

Russell Lawrence Society

Air Products & Chemicals, Inc.
American Electric Power Foundation
Aramark Management Services, LP
+Mr. and +Mrs. Natale J. Bifano, BAeE'37
Chrysler Group, LLC
Community Foundation for Southeast Michigan
Digital Equipment Corp.
DTE Energy Foundation
Mr. and Mrs. John E. Elliott II, BSBA'80
Lear Corporation
Mr. and Mrs. Michael G. Morris
Charles Stewart Mott Foundation
Mr. Albert Scaglione
+Mr. and +Mrs. Charles J. Windsor

E. George Lawrence Society

Carman Adams Foundation
Bendix Corp./Allied-Signal, Inc.
+Mr. Edward E. Brewer and Mrs. Joyce K. Brewer

Ms. Catherine G. Burke
+Mr. and Mrs. John Chanik, DIT-BSME'39
Denso North America Foundation
DTE Energy Company
Mr. and Mrs. Michael W. Fitzpatrick, BSME'73
Ford Global Technologies, LLC
Ford Motor Company
Rollin M. Gerstacker Foundation
+Mr. and Mrs. Alexander Hossack, BSME'48
Kistler Instrument Corporation
+Mr. and Mrs. Carlton R. Lindell
McGregor Fund
+Mr. Henry W. Nace and +Mrs. Elizabeth C. Nace
Mr. and Mrs. John J. Sammut, BSBA'88, BSEE'88
Prof. and Mrs. George Schneider, Jr., ACmT'73
The Skillman Foundation
Society of Manufacturing Engineers
Steelcase Inc.
Mr. Michael Stuart, BSCh'90
Dr. and Mrs. Kurt O. Tech, BSME'48, HD'90

1932 Society

Ameritech
ArvinMeritor, Inc.
Barton Malow Company
The Charles M. Bauervic Foundation, Inc.
Mrs. Elizabeth Bibbens-Craig
Mr. and Mrs. Lauren L. Bowler
Burroughs Corp./Unisys
The Clarence and Grace Chamberlin Foundation
Mr. and Mrs. Fred A. Ciampa, BSME'64
Communities in Schools of Detroit, Inc.
+Mr. and +Mrs. Carl W. Cowan, BME'40
+Mr. Ralph E. Cross Sr., HD'77
DENSO International America, Inc.
Mr. Frank A. Dioszegi, ABCT'68
Eaton Corporation
Mr. and Mrs. Eric P. Eisen
+Mr. Arthur Fealk and +Mrs. Betty A. Fealk
Federal-Mogul Corporation
+Mr. and Mrs. Samuel Frankel
General Dynamics Corporation
+Mr. Harold J. Gibson and +Mrs. Frances W. Gibson
Mr. and Mrs. Michael D. Gillie, BSBA'81
Grant Thornton, LLP
+Mr. Myron J. Greenman, BME'46, and +Mrs. Helen R. Greenman
Harley Ellis Devereaux
Herrick Foundation
+Mr. Richard W. Hogan, BSEE'48, and +Mrs. Margaret Hogan
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Scholarship will support female student athletes

Dean of Students Kevin Finn, MBA'06, and his wife have committed \$25,000 to establish the Kevin Finn and Janice Suchan Finn Endowed Scholarship in Athletics – with a specific focus on female student athletes. They have been inducted into the Benefactors Society.

"We both are supportive of student athletes," Finn said. "So, Jan and I wanted to create a scholarship that would help ease their financial burden. And the more we talked about it, we decided to make the scholarship for female athletes who sometimes don't get the same acclaim as their male counterparts."

Finn, a certified career coach and career development facilitator, knows the positive effect sports can have on a young person's development. "It also fits well with Dr. Walker's emphasis on leadership as part of the Lawrence Tech curriculum," he said. □



Kevin Finn

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Harlan Foundation transfers assets to Lawrence Tech

Successful electrical contractor and entrepreneur John Harlan has liquidated the assets of the Harlan Foundation – approximately \$1.2 million – and turned the proceeds over to Lawrence Tech. He and his



Beth Harlan



John Harlan

wife, Beth, have been inducted into the Ed Donley Society, which honors donors whose cumulative gifts exceed \$1 million.

The Harlans' contribution will support the Mary E. Marburger Memorial Interdisciplinary Facilities Fund and renovations to the Science Building auditorium and labs in the College of Arts and Sciences.

A loyal supporter of the University, Harlan joined the Board of Trustees in 1981 at the invitation of President Wayne Buell. He forged a similar friendship with Buell's successor, Richard Marburger, now president emeritus. "Those two fine gentlemen are the reason I'm so involved with Lawrence Tech," he said.

A 1956 electrical engineering graduate of the University of Michigan, Harlan joined the company founded by his father and served as president from 1972 to 1995 when the company was sold.

"My father, who set up the Foundation in the '50s, was a strong believer in giving back as a way to share his success," Harlan said. "I like to think I followed in his footsteps." □

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The "Driving America" exhibit at The Henry Ford in Dearborn was the venue for Winterlude 2012.

\$50,000 bequest will support information technology scholarship

Chuck Hill, BSBA'94, who works in services management for Ford Motor Company's Information Technology Operations, is sharing his success with a \$50,000 bequest to Lawrence Tech that will fund the Charles M. Hill and Cynthia G. Hill Endowed Scholarship in Information Technology.

After earning an associate degree from a community college and spending a little time at a local university, he began taking classes at Lawrence Tech while working full-time. "The faculty at Lawrence Tech with the 'theory and practice' approach taught me how to bear down, study hard, and overcome challenges," he said.

He completed a master's degree, earning straight A's while working full time. He credits Lawrence Tech with setting him on the right path. "I use my Lawrence Tech education every day of my life," he said.

Hill and his wife, Cynthia, have been generous to the University over the years. "But I wanted to do something that would be a legacy and give back not only to the school but to society," he said. "There is a whole new generation of bright, young adults who need our help to take advantage of the wonderful opportunity of a Lawrence Tech education." □



Cynthia Hill, then-President Lewis Walker, and Chuck Hill at the check presentation.

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Engineering technology senior projects get a boost from Sargon Partners

Ongoing support for senior projects has earned Sargon Partners, Inc., a place in the Presidents Club (Lifetime). The investment capital firm located in Walled Lake, Mich., helps fund start-ups.

For the last three years Sargon has provided seed money for a variety of senior projects that have been developed in the industrial projects class taught by Ken Cook, chair of the Department of Engineering Technology in the College of Engineering.

Students select a product to develop – just as they would in the real world. They do everything from market research and developing a budget, to creating a business plan, and constructing a working product. They even come up with a name, a logo, and a mission statement.

“Sargon Partners’ managing partner Jeff Golota visits class to discuss the work with our students. It’s a truly collaborative arrangement,” Cook said.

“We’re looking at students as equity partners in new technologies and helping them form new companies that will be positioned for future growth,” said Golota. “We are so impressed with the ‘can-do’ attitude of the Lawrence Tech students and their spirit of entrepreneurship.” □



Then-President Lewis Walker and Jeff Golota.

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Lawrence Tech named the beneficiary of \$1.2 million trust

Mike Stuart, BSCh'90, has named his alma mater the beneficiary of a \$1.2 million trust to fund the Michael A. Stuart Endowed Scholarship. That gift has earned him membership in the E. George Lawrence Society.

Stuart works for AkzoNobel, the world's largest paint and coatings manufacturer. He oversees the company's automotive and aerospace pilot plant in Pontiac, which takes small-batch, R&D formulas and converts them into large-scale production products.

His interest in chemistry was kindled at Lawrence Tech, and he went on to earn a master's degree from Auburn University.

"I always say when people look at the success they've enjoyed, they have to ask themselves, 'Where did I get the skills and know-how?' The answer for me and many others is Lawrence Tech," Stuart said.

His scholarship, which will give preference to students majoring in the arts and sciences or engineering, "will be my legacy," he added. □



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Wineys add \$50,000 to their architecture scholarship

In 2008, Dan Winey, BSAr'74, BA'75, and his wife established the Daniel W. and Iris R. Winey Endowed Architecture Scholarship with an initial gift of \$50,000. Recently, they added an additional \$50,000 to the endowment, which qualifies them for membership in the 1932 Society.

Winey, who also earned an MBA from the University of Michigan, is managing principal of the international architecture and design firm Gensler & Associates. A member of the College of Fellows within the American Institute of Architects, he exemplifies a new generation of practice leaders who embrace globalization, sustainability, collaboration, cultural awareness, and practice innovation.

The oldest of 11 children, he was grateful to receive a scholarship when he attended Lawrence Tech and now is returning the favor. □



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Lawrence Tech inaugurates Taubman Society for highest donors

Lawrence Technological University has created the A. Alfred Taubman Society to recognize the highest level of philanthropy to the University.

The new philanthropic designation honors donors who have given outright gifts of cash, securities, real property, and gifts-in-kind with a cumulative value of more than \$5 million. Recognition is also given to donors who have a \$10 million bequest or planned gift in their estate plan.

Taubman and his family provided the \$4 million lead gift for the student services center named in his honor in 2006. Other gifts have put the cumulative giving of the Taubman family above \$5 million.

In 2011, the family contributed \$1 million and offered a \$10 million challenge grant for the construction of the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex.

"The University's relationship with Mr. Taubman has been a long, strong, and supportive one, and it gives us great pleasure to name the highest of our giving societies for this remarkable former student, business leader, and longtime friend," said Lewis Walker, then-president of Lawrence Tech.

The inaugural members of the new society were recognized at the annual Winterlude dinner at The Henry Ford in Dearborn on March 1 – Mr. and Mrs. A. Alfred Taubman, HD'85; Mr. and Mrs. Ed Donley, BME'43, HD'76, HD'87; and Ann T. Opperthausen and her late husband, Orval A. Opperthausen, BSIE'48, HD'06. □



A. Alfred Taubman and the new award.

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Evelyn Tucker, who is a member of the 1932 Society, and Kendrah Hardin try out the diner at The Henry Ford during Winterlude 2012.

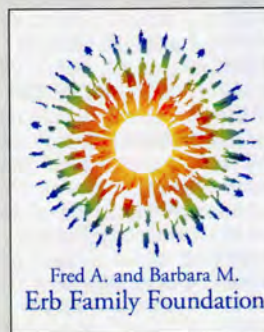
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Erb Family Foundation funds conservation education at Lawrence Tech

In keeping with its mission to support initiatives to restore the Great Lakes Basin, the Erb Family Foundation has awarded a \$57,000 grant to Lawrence Tech Associate Professor Donald Carpenter to build a stormwater management educational trail on campus.



Carpenter, the founder and director of the Great Lakes Stormwater Management Institute at Lawrence Tech, is one of Michigan's leading proponents of low-impact development (LID).

"Lawrence Tech itself is a fine example of LID," said Carpenter. "We feature a wide variety of sustainable practices that conserve and protect natural resources, including a green roof, bioswale, porous pavers, naturalized areas, cisterns, and rain gardens. These all will be stops on the storm-

water management educational trail and marked with appropriate educational signage."

In addition, the Erb Family Foundation grant will underwrite the cost of a general information LID booklet, an interactive website, and a video of the trail's features.

The Erb Family Foundation was established in 2007 by Fred and Barbara Erb to formalize their family's legendary philanthropy. When Fred sold the Erb Lumber chain in 1993, it was the largest lumber distributor in Michigan and had 45 stores in several states and more than 1,300 employees. □

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Join the Walkers to support scholarships

As Lewis Walker transitioned from president to chancellor of Lawrence Tech on June 30, he focused attention on the need for more scholarship support. There has already been great progress – since 2000, the number of scholarships has grown from a dozen to more than 100, and the value of the scholarship funds has increased tenfold to more than \$6 million. The support these scholarships provide Lawrence Tech students is invaluable, but much more needs to be done as the costs of higher college education continue to increase.

Walker and his wife, Nancy, have committed their personal support to the Lewis and Nancy Walker Endowed Scholarship in Leadership. Helping to increase this scholarship fund is a great way to show appreciation for the leadership excellence Walker has provided to the University.

Renewed commitment to scholarship support is an important part of Walker's legacy.

For information on scholarships at Lawrence Tech, contact Dino Hernandez at 248.204.2306 or dhernande@ltu.edu. □



Nancy and Lewis Walker

DONOR HONOR ROLL

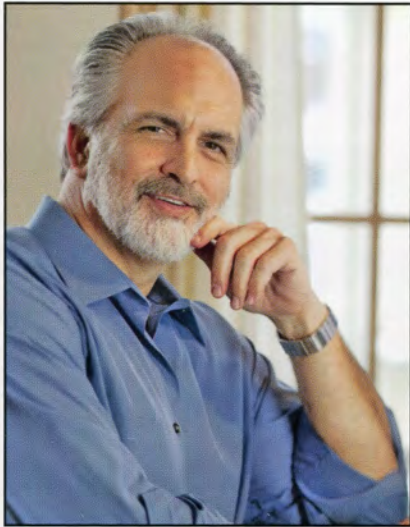
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Brooke Hayes (left) and Julie Vulaj (right) of University Advancement join University Advancement Assistant Vice President Dino Hernandez and his wife, Amy, who are members of the Presidents Club-Lifetime, and Anne Wright, MEMS'99, a member of the Trustees Society.

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T H E B A C K P A G E

Return home to campus for more Blue Devil varsity athletics this fall

It's been more than a year since Lawrence Tech made a big commitment to reestablishing its varsity athletics program and gained admission to the National Association of Intercollegiate Athletics. This fall the Blue Devils begin their first season as members of the Wolverine-Hoosier Athletic Conference (WHAC).

(For the latest news on Lawrence Tech's athletics program and team schedules, go to www.bluedevilathletics.com.)

Lawrence Tech will field both men's and women's teams in basketball, soccer, and cross country this year along with the women's volleyball team that will begin playing a WHAC schedule.

The Ridler Field House will be a beehive of activity for Homecoming week. A highlight will be Friday, Sept. 28, when the newest members of the Athletic Hall of Fame will be introduced and basketball great Blaine Denning's number will be retired.

On Homecoming day, Saturday, Sept. 29, the women's soccer team will play Davenport University at 12:30 p.m., and the men's soccer team will play the University of Michigan Dearborn at 3 p.m.

The first home game of the new hockey season will be Oct. 13.

A big date on the fall calendar is Saturday, Nov. 17, when the new men's and women's basketball teams play their home openers.

The men's bowling team will begin its second season in the fall. The women's bowling team is scheduled to debut in the fall of 2013.

After an abbreviated schedule as a club sport this spring, the men's lacrosse team will start its first full season as a varsity team in the spring of 2013. A women's lacrosse team is expected to start playing in 2014.

Adding to the Blue Devil spirit will be a dance team and a pep band.

Lawrence Tech will also introduce junior varsity athletics in the fall for men's soccer and bowling, and more JV teams are on the way.

Adding varsity athletics to campus life has already resulted in 125 new student athletes at LTU this fall, and a total of 190

will be playing varsity and junior varsity athletics. Eventually that number could reach 300, according to Scott Trudeau, director of recreation, athletics and wellness.

To make room for the coaching staff, more space in the Ridler Field House will be converted to offices. Two of the racquetball courts will be converted to a fitness room, including a much-needed expansion of the training room.

The growth of varsity athletics has been paralleled by a significant increase in participation in intramural athletics, in part due to renewed interest in volleyball, indoor soccer, and badminton, and the addition of broomball and Quidditch.

"We are hitting some different demographics now," Trudeau said. "A lot more people are coming through our doors."

The participation rate has been helped by the increased concern about physical fitness in society in general. More students are interested in working out or continuing their athletic activities from high school.

"People see a lot more recreational activity on campus and they want to be part of it," Trudeau said.

The coaches are also reaching out to pre-college students to



Lawrence Tech's Blue Devil is sporting a new look for the first season of competition in the Wolverine-Hoosier Athletic Conference.

build support for their sports. They will host a series of summer camps in June and July for boys and girls in basketball, soccer, and volleyball. Children of Lawrence Tech alumni are eligible for discounts. Visit bluedevilathletics.com for details and schedules. □EP



Lawrence Tech introduced men's lacrosse this spring, and the Blue Devils recorded their first victory against Delta College in an abbreviated four-game schedule.