

Lawrence Tech®

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Spring/Summer 2011



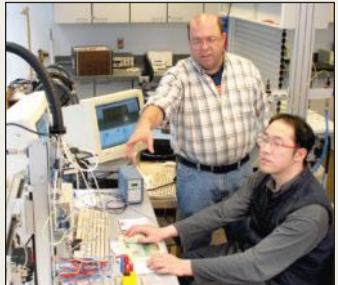
Building for the future: New engineering research facilities energize both faculty and students

NAIA membership rejuvenates interest in athletics | Charting a green future for Southwest Detroit
A conversation with Dean Glen LeRoy | KCP initiatives enhance the college experience
Alumni News & Notes | 2010 Donor Honor Roll, and more!

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On the cover: Assistant Professor Keith Kowalkowski discusses an innovative fiber reinforced composite specimen with research assistant Stephen Downing and student Marinna Plinka in front of Lawrence Tech's new MTS high-force test system, which can be used for a number of material property tests. An environmental chamber can be used to subject specimens to temperatures ranging from -200°F to 200°F.

Correction: On page 14 of the Winter/Fall 2010 issue, we misidentified a member of the SAE Aero team. Second from the right is Christopher Campbell, not Steve Musselman, a team member who wasn't in the photo.

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Building for the future

Dean Nabil Grace and the faculty of the College of Engineering are on a quest for pre-eminence, and one key to success will be the addition of cutting-edge research facilities. While the College's proposed five-year strategic plan sets lofty goals that will require millions of dollars in investment, individual professors are already making a difference by bringing new technologies to the Lawrence Tech campus.

**New engineering
research facilities
attract a dynamic
faculty and
talented students.**



Nabil Grace (center) discusses Lawrence Tech's new MTS high-force test system with University Advancement's Mark Brucki and Congressman Gary Peters (D-Mich.) in the Center for Innovative Materials Research at Lawrence Tech.

New research facilities are needed to maintain the College of Engineering's strong national reputation and its ability to attract a dynamic faculty as well as talented and qualified students who have the potential to become leaders in their profession.

"Students can't be expected to reach their potential unless they are exposed to innovative educational programs, and to do that we must give them experience with cutting-edge research that excites their interest and meets their needs," Grace said. "We want their time at Lawrence Tech to be a life-changing experience."

A new building for the College of Engineering is the centerpiece of Grace's five-year plan, and that vision is much closer to reality now that

A. Alfred Taubman has committed \$11 million to the cause. (See story on back cover.)

But Grace and the engineering faculty are not standing still while waiting for the new building. During the past year Lawrence Tech has added an impressive array of research equipment that will improve instruction and research opportunities in civil engineering, biomedical engineering, mechatronics, and mechanical engineering.

'Students can't be expected to reach their potential unless they are exposed to innovative educational programs, and to do that we must give them experience with cutting-edge research.'

Undergraduate and graduate students have been very involved in Grace's own research activities on innovative materials, such as carbon-fiber reinforced polymers. "I know from personal experience that exciting and innovative research projects that are of national interest attract the best students," he said.

The College of Engineering's current drive to improve its research and teaching facilities got started with the construction of the Center for Innovative Materials Research (CIMR) under Grace's leadership as chair of the Department of Civil Engineering. Dedicated in 2008, it was built through an \$11 million co-operative research agreement with the Army Research Laboratory (ARL) that also involved the U.S. Army's Tank Automotive Research, Development and Engineering Center (TARDEC) in nearby Warren.

The Army's investment has led to ongoing testing of components, and several research projects are currently under way for TARDEC. Many of the other investigations conducted at CIMR center on Grace's own research on long-lasting, corrosion-free materials and designs for highway bridges, which has been

supported by federal and state transportation departments, the Michigan Economic Development Corp., the National Science Foundation, and other sources.

Adding new research capabilities

CIMR has been equipped with state-of-the-art, full-scale testing and research equipment, and the latest addition is the MTS Model 311 Four Post Load Frame, a high-force test system that

can be used for a number of material property tests. High-force mechanical testing is critical for determining the performance and durability properties of large, high-strength candidate materials, components, and sub-assemblies across a diverse array of industries.

"Finding and using proper testing equipment to fulfill this



Students Stacy Kaiser and Erick Blanck receive instruction from Assistant Professor Yawen Li on how to operate Lawrence Tech's new environmental scanning electron microscope.

Students Tim Mullins and Brian Figueiredo and Assistant Professor Eric Meyer monitor data generated by the movements of Bill Slesinski in Lawrence Tech's Experimental Biomechanics Laboratory.



need is challenging because required test applications can range widely from simple, static strength characterization to complex, dynamic life studies,” Grace said. “Lawrence Tech’s new system is uniquely suited for the tremendous demands of high-force, high-velocity tension and compression, and high-frequency fatigue testing with exposure to various environmental conditions.”

There are military applications for the new equipment, and ARL and TARDEC provided partial funding as part of a comprehensive two-year research investigation examining a variety of advanced state-of-the-art lightweight, high-strength materials. The tests not only evaluate the strength of the materials themselves, but also the manufacturing process that is required to fabricate the materials.

The MTS machine can be used for a variety of academic, industrial, and research applications. It provides another opportunity for Lawrence Tech students to participate in sophisticated research projects and it is also an effective teaching tool, according to Assistant Professor Keith Kowalkowski.

“Tests can be performed for students to understand how mechanical and dynamic properties are measured as discussed in their engineering courses,” he said.

Another testing option

Researchers at Lawrence Tech will have another option for materials testing in the Structural Testing Center with the arrival later this year of the ElectroPuls E10000 all-electric test instrument – the first of its kind at a Michigan university. The system is designed for taking strain measurements under tensile and torsional loads on “delicate” soft and strong specimens and can be used for biomedical, mechanical, and structural research applications.

Grants from the U.S. Department of Transportation and the National Science Foundation will cover part of the \$400,000 investment, which will include an environmental chamber purchased separately.

The ElectroPuls system will provide a new method for measuring the test results. Instead of recording readings from sensors attached to the test materials, a state-of-the-art laser video sensor will measure strains without any contact with the

The Army’s investment has led to ongoing testing of components, and several research projects are currently under way for TARDEC.

test specimens. The system is totally electric, so there are no hydraulic and cooling systems to maintain.

One of the first test projects will be on newly developed high strength material that can be used for blast mitigation, according to Grace.

“This new state-of-the-art testing system will give Lawrence Tech engineering students the advantage of cutting-edge testing technology for various biomedical and structural innovative materials on a small scale,” Grace said.

Biomedical engineering gains strength

One of the fastest-growing majors at Lawrence Tech is biomedical engineering, and that program took a big step forward with the establishment of the Biomedical Microelectromechanical Systems (BioMEMS) Laboratory under the leadership of Assistant Professor Yawen Li.

Lawrence Tech has further strengthened its biomedical engineering facilities by acquiring the first environmental scanning

Aaron Hanson (right) of Blue Devil Motorsports talks about Lawrence Tech's new water brake engine dynamometer with team member Steve Rehak, Assistant Professor Giscard Kifoury, and team member Marc Basta.

electron microscope in the metro Detroit area, thanks to a \$769,444 grant from the National Science Foundation.

With magnification 250 times better than the best light microscopes, it can be used to scientifically characterize wet, oily, porous, and soft materials that are traditionally considered impossible to study using conventional microscopy techniques. It can produce high-resolution images of a sample surface, revealing details less than a nanometer (one-billionth of a meter) in size.

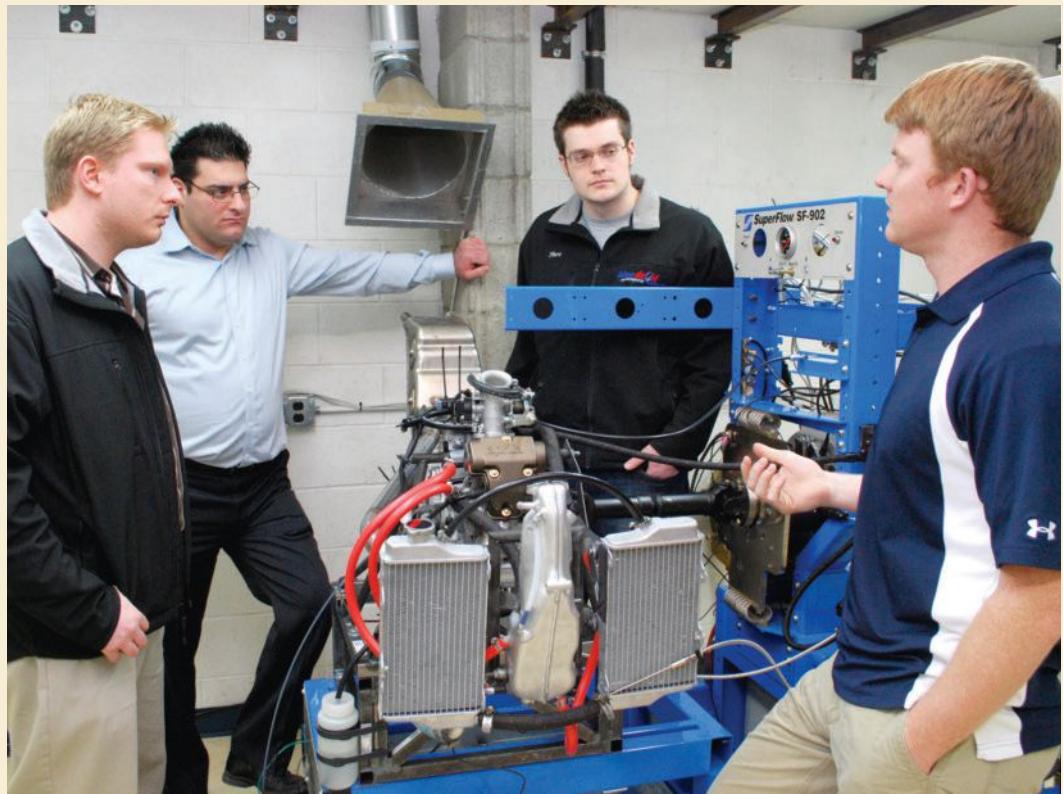
Research projects are already lined up in biomaterials, orthopedics, tissue engineering, composite materials, automotive components, and lithium batteries – not just for Lawrence Tech, but also for Wayne State University, Oakland University, the William Beaumont Research Institute, and the General Motors Research and Development Center.

“The environmental scanning electron microscope will strengthen the existing materials research infrastructure at Lawrence Tech and our partnering institutions, and enhance the research and educational experiences of a large number of students at Lawrence Tech and other universities,” Li said.

New lab has multiple applications

During the past academic year, the College of Engineering has established a new Experimental Biomechanics Laboratory under the direction of a new faculty member, Assistant Professor Eric Meyer. This lab is advancing experimental biomechanics understanding by providing practical training to students and expanding the knowledge of biomechanics through applied research.

“One of the lab’s focus areas is on real world measuring of human movement, a skill that can be used in many applications – from understanding the gait cycle of a child with cerebral



palsy to optimizing the golf swing of a player in the PGA, or simulating how a customer would interact with a new automotive interior design,” Meyer explained.

‘This new state-of-the-art testing system will give Lawrence Tech engineering students the advantage of cutting-edge testing technology.’

The portable motion capture equipment is set up for experiments in a multipurpose space in the Engineering Building. Six Vicon Bonita cameras are able to record at 240 frames per second – almost 10 times faster than standard video cameras – and can measure

the three-dimensional position of reflective markers attached to a person or object with an accuracy rate within one millimeter.

Students can apply the theories and concepts they learn in their Introduction to Biomechanics lectures to the practice of measuring and analyzing human movement. When it is introduced this fall, the course will be required for juniors in the biomedical engineering program.

Meyer is using the new lab for biomechanical research into the joint injuries experienced by athletes, the subject of his doctoral research at Michigan State University. With a grant from NFL Charities, Meyer is investigating high ankle sprains caused by rotation that can occur when a football player’s cleats get caught in the playing surface.

He is also working with the game art program in the College of Architecture and Design, teaching a studio module on computer-generated animation using motion capture – the same

technique used to create the movie “Avatar” as well of hundreds of popular video games.

“Biomechanics is one of the oldest fields of research, but there are also very interesting and cutting-edge topics,” Meyer said. “I love how engineering tools can be applied to solve medical problems and to understand ourselves.”

Racing teams benefit

During the spring term, the A. Leon Linton Department of Mechanical Engineering added a new, state-of-the-art water brake engine dynamometer package along with the associated data acquisition system and software, funded by a \$50,000 grant from the DENSO North America Foundation.

The dynamometer package is used by the Formula SAE, Formula Hybrid, and SAE Baja student teams to test and tune their powertrain designs and by students working on research projects.

Undergraduate and graduate students will use the equipment in a number of mechanical and automotive engineering courses to apply theoretical knowledge acquired in the classroom. Faculty and staff are developing a systematic procedure to train students on the use of the equipment and corresponding software, and are working to expand the use of the dynamometer in appropriate courses.

The dynamometer acquisition is part of an overall effort to expand the combustion and emissions lab at Lawrence Tech in order to pursue applied research opportunities in the automotive field.

“Projects involving alternative fuels, emission testing, and advanced engine controls will all be served by this new equipment,” said Assistant Professor Giscard Kfoury.

Moving ahead with robotics

In collaboration with the College of Arts and Sciences, the College of Engineering plans to offer a new bachelor’s degree in robotics engineering, pending approval from the Board of Trustees in June. Much of the progress in this dynamic area of study has been accomplished by Professor Vladimir Vantsevich, who established the master’s degree program in mechatronics in 2006.

Mechatronics brings together mechanical, electrical, and computer engineering, computer science, and mathematics – all vital to the automotive industry as vehicles rely more and more on sophisticated electronic and computer controls. Student research is a key element of the mechatronics program, and this year a student committee was formed to support students involved in research. (See story on page 22.)

Vantsevich’s program has benefitted from strong industry sponsorship, and the value of grants, high-tech equipment, and software products donated to the Mechatronic Systems Laboratory has reached \$700,000. One example is a two-degree-of-



Lab Technician Mark Schmidt and automotive engineering graduate student Di Zhu collect data on a two-degree-of-freedom robot with a pneumatic drive donated by Festo Corp.

freedom robot with a pneumatic drive donated by Festo Corp. This spring researchers used the equipment to study kinematics and compliant dynamics of the robot.

“At some speeds, there can be a negative damping in a robotic system, which is not good for fulfilling the required motion of the robot,” Vantsevich explained. “We are testing our robot at different speeds and accelerations in order to determine conditions when the negative damping can or cannot occur.”

Empowering the faculty and students

The addition of new testing equipment in the College of Engineering will provide opportunities for faculty members to explore new areas of research. These tools can lead to new research initiatives and new academic programming, according to Grace.

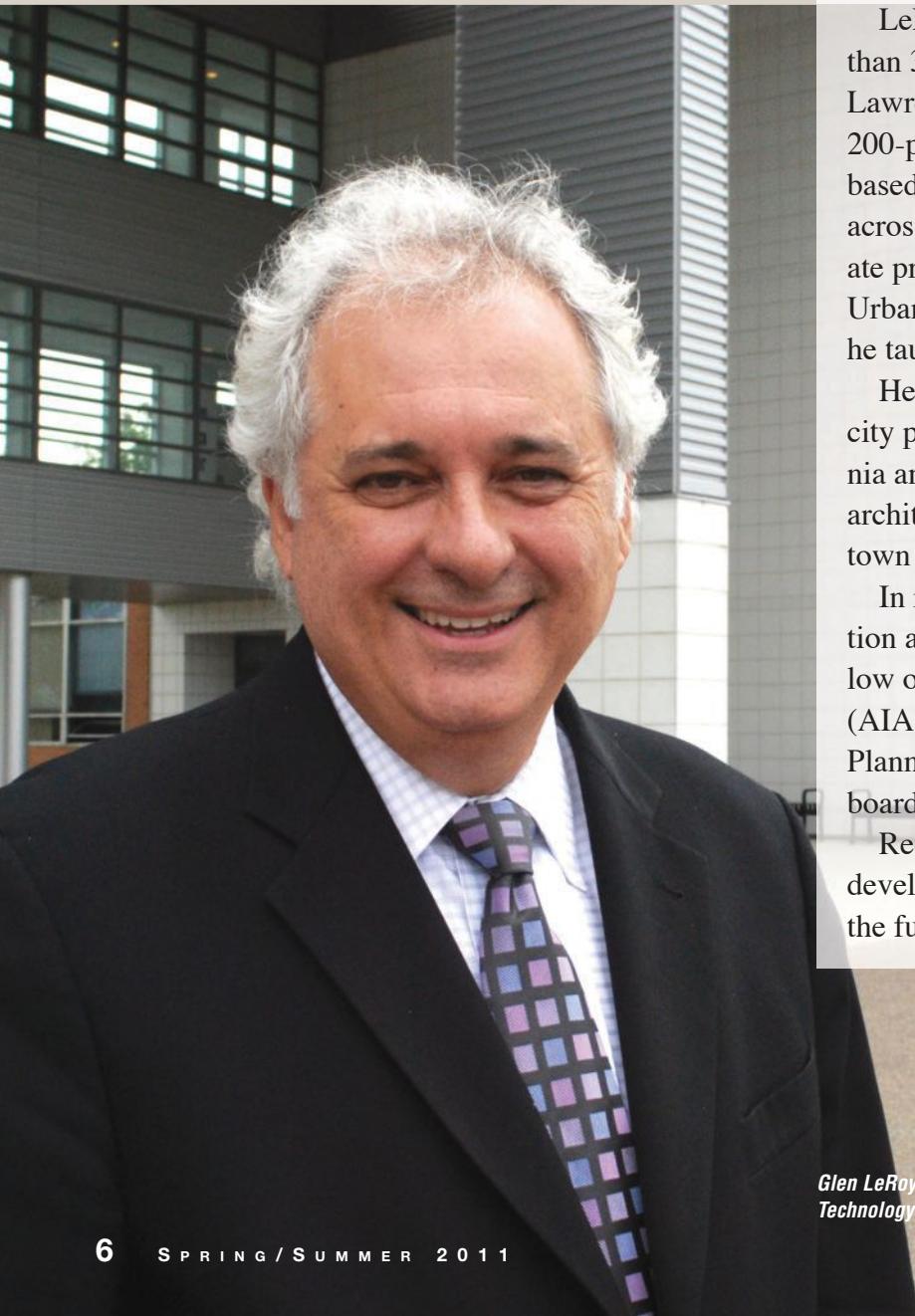
“When you have a motivated faculty, the investment in new equipment should quickly pay off with new research projects,” Grace said. “In the College of Engineering we are committed to continuous growth. The best way to achieve growth is to give our researchers the tools they need.”

The new state-of-the-art equipment and research facilities will also benefit the students.

“Both undergraduate and graduate students will have access to cutting-edge technology to test and evaluate the behavior of their design components completed during their classes and senior projects, and many will have the opportunity to participate in advanced research investigations,” he said. □EP

A conversation with **Dean Glen LeRoy**

**College of Architecture and Design
builds new programs on solid foundation.**



Many changes have taken place in the six years that Glen LeRoy has served as dean of the College of Architecture and Design, in part a reflection of the experience he brought to the job from both academia and private practice.

LeRoy was a practicing architect for more than 30 years, and prior to being named dean at Lawrence Tech in 2005 was a principal of the 200-plus-employee Gould Evans Associates, LC, based in Kansas City, Mo., with multiple offices across the United States. He was also an associate professor at the School of Architecture & Urban Design at the University of Kansas, where he taught for more than 20 years.

He has master's degrees in architecture and city planning from the University of Pennsylvania and a master's and bachelor's degree in architecture from Tulane University in his hometown of New Orleans.

In recognition of his leadership in both education and practice, LeRoy has been named a fellow of both the American Institute of Architects (AIA) and the American Institute of Certified Planners. He currently serves on the AIA national board of directors.

Recently, LeRoy answered questions about developments in the college and his vision for the future.

Glen LeRoy outside the University Technology and Learning Center.



Dean of Architecture and Design Glen LeRoy suggests some ideas during a 2009 charrette to come up with urban design proposals for six neighborhoods on Detroit's east side.

products or even automobiles – and they also understand the software that's involved in the production of the project.

Recognizing the greater role that architects and designers must play, we also emphasize the importance of communication, teamwork, interpersonal

relations, and leadership skills. Our students realize that they must give back to society, and that they can accomplish more in their careers by being well connected in the communities they serve.

As a result, people in the profession tell me that what distinguishes our graduates is that they contribute from day one – they not only hit the ground running, they prove that they can successfully do the work from the start. Many professionals regard our ability to integrate our graduates so easily into the profession as a real achievement.

Q *What are some of the new skills needed for the 21st century?*

A First, architects and designers must understand their work within a leadership process. They need to know how to lead teams, and how to play roles within teams if they are not the team leader. They must be able to function effectively within this leadership framework, both in their job and in society in general.

Second, they need to know how to deal with people from other cultures. During their careers, our graduates may be designing a project in another country where the habits, customs, and expectations are unfamiliar. Or they may be working in an ethnic neighborhood in their own city. Architects and designers often have to deal with situations that are not naturally comfortable. They have to learn how to communicate with people from different backgrounds as they go through the design decision-making process.

Third, architects and designers must know how to be of service to something bigger than themselves. Before they can graduate, they must complete a service-learning experience

Q *Let's start by talking about the state of the profession. How is the role of architects and designers changing?*

A A hundred years ago architects were often part of the social elite and recognized leaders in the community. They provided a vision for the future and promoted a social agenda for their communities. A good example was Daniel Burnham, who organized the 1893 world's fair in Chicago and then helped lead the City Beautiful movement that helped transform Chicago, as well as cities across the United States, in the early 20th century.

Over time the role of architects and designers in the planning process has become less important, and their services are too often seen as a commodity. Architects and designers must reassert their vision for society and once again become recognized leaders in their communities. They bring essential knowledge and skills, not only to architecture, but to urban planning and design, the construction industry, the development process, and a wide range of design-oriented activities.

Q *What do you want graduates to take away from Lawrence Tech?*

A As a technological university, Lawrence Tech has always produced graduates who are technically proficient, and that is more important than ever. We now ask large national firms what software they expect to be using in five years, and then we make sure our students are prepared by the time they graduate. Twice in the past five years, we have made major changes to our electronic methodology and curriculum to align our program with where the profession is moving.

Our graduates understand the technologies involved in the projects they are doing – cities, buildings, interiors, imaging,

LeRoy CONTINUED

Dean Glen LeRoy reviews senior Jennifer Arafat's thesis project that was on display this spring at Studio Couture Detroit.

and give something back to society. That's something they should continue throughout their lives and careers.

Fourth, with the world becoming increasingly urban, our graduates must know how to deal with cities – the urban situation – because that is where most of their work will likely be.



Q **What sets Lawrence Tech apart from other architecture and design programs?**

A Architectural education used to focus primarily on preparation for practice, but over the past 30 or 40 years an increasing number of schools have evolved to place more emphasis on theory and research. Of course, our motto at Lawrence Tech has always been "theory and practice." We continue to reinforce the practice orientation of our curriculum – it's in our DNA. Now we have the opportunity to be recognized as one of the best practice-oriented schools in the country.

Theory and practice has been a cornerstone of this university since its founding. We always had high academic standards and a strong theoretical understanding of the issues the profession faces. We keep up with new evolving theoretical perspectives, but we also realize that our graduates must put those ideas into practice. As an example, Lawrence Tech has recently been rated as one of the top five programs in the country for teaching materials and methods of construction.

Another real strength is our close connection with architecture and design practitioners. Almost all of our adjunct faculty are engaged in practice, and our full-time faculty remain involved with the profession through many professional and personal connections. Having a strong relationship between academia and practice is not naturally easy, but it is essential for the long-term success of the profession. We will continue to do it!

Q **What has changed at the college since you became dean?**

A We've changed the nature of the college somewhat by passing on more responsibilities to the full-time faculty. For instance, they are responsible for coordinating adjunct faculty members. Administrators and faculty members work in

teams here. We depend on everyone's leadership to coordinate their program or curriculum area.

This is not a top-down school. It's a school where every faculty and staff member has significant responsibilities. I believe that you can't accomplish a great vision or long-term goals with a top-down approach. Everyone has to understand where we are going and move in the same direction.

I have been impressed by the phenomenal dedication of faculty and staff and their willingness to step up and take responsibility. They find ways to improve the college and then follow through with actions. We have an entrepreneurial faculty and staff doing innovative things every day.

Q **Some examples?**

A Through the leadership of Assistant Professor Jim Stevens, we recently opened the makeLab, where students fabricate objects that have been designed using parametric software. The mission of makeLab is to use digital fabrication as an entrepreneurial opportunity and to demonstrate the theory and practice of design through technological and manual competencies. Students typically learn more when they are actually making something.

When we inaugurated our five-year master's degree program in architectural engineering in 2009, there were only 14 similar programs in the country and none in Michigan. Two others have since started up in the state, but we believe our program remains unique because it is conceptually owned by both our college and the College of Engineering. It has a strong advisory board consisting of both engineers and architects.

Assistant Professor Constance Bodurow took the lead in developing and coordinating the new master's degree program in urban design. (See page 10). We believe it is a uniquely multidisciplinary approach to integrating the built and natural

Theory and practice has been a cornerstone of this university since its founding.



Dean Glen LeRoy enjoyed the role he played in A. Alfred Taubman's course, *Real Estate Practice: Land Development*.



LeRoy helped develop the 2009 "Green Box City" project that involved 300 students from Eastover Elementary School in Bloomfield Hills. The educational program was promoted by the American Institute of Architects to increase understanding of urban design.

environments by layering culture, economics, history, technology, and theory. There is a strong focus on the creation and maintenance of sustainable cities and regions that we call "sustainable urbanism."

This spring, our first group of students graduated from the bachelor's degree program in transportation design. The program was established at the behest of automotive industry executives frustrated by the lack of communication between designers and engineers in their industry. The program director is Keith Nagara, who has extensive industry experience in automotive design and the interface of design and engineering. Our graduates have both design skills and an understanding of engineering principles, and the program has already been recognized as one of the best in the country.

A number of people led by Professor Steven Rost, Assistant Professor Peter Beaugard, and Senior Lecturer Gretchen Rudy have been involved in our expansion in fine arts and allied de-

sign fields that has been based on the premise that the design enterprise is a holistic pursuit that should engage all levels and areas of design. Architecture, interior design, graphic design, digital arts, transportation design, and urban design are all interrelated. We want our graduates to have a better understanding of where their core interest fits within the design process.

Q **What is the most fun you've had as dean?**

A I would have to say it was last fall when I worked with Affiliate Professor A. Alfred Taubman on his course, *Real Estate Practice: Land Development*. He is universally recognized as a pioneer in the development of the modern shopping mall. *Detroit Free Press* reporter John Gallagher wrote that Taubman's course on real estate practice was "roughly the equivalent of learning music at the hand of Mozart."

Taubman studied architecture at Lawrence Tech and so it was appropriate that his course epitomized our theory and practice approach. He provided an historical perspective on commercial development and tied in architectural theoretical concepts like spacial order and perception. He could show perhaps better than anyone how economic conditions and practical considerations can affect design decisions and physical form.

As if that were not enough, Professor Taubman also brought in four guest lecturers with international reputations – Kenneth Walker, Eugene Kohn, Rafael Vinoly, and Michael Graves. I do not think there was another architecture school in the country that could match our lecture series during the past year. □EP

Sustainable urbanism

Lawrence Tech helps chart a green future for Southwest Detroit.

A multi-disciplinary team at Lawrence Tech is utilizing cutting-edge applied design research to create a blueprint for turning Southwest Detroit into a green community that could ultimately produce all the energy it uses. This project got its start three years ago when Assistant Professor Constance Bodurow of the College of Architecture and Design and Adjunct Faculty Calvin Creech of the College of Engineering established studio[Ci], a research lab that draws on the expertise of professional architects, urban designers, and civil, mechanical, and environmental engineers. The studio uses multiple software programs to provide an inventory of a community's characteristics, not just population density, housing stock, and infrastructure, but also public amenities and historical and cultural resources.

With funding from Local Initiatives Support Corp. and the American Institute of Architects, they have been working in the 20-square-mile Southwest Detroit neighborhood that includes Mexicantown, the Ambassador Bridge, and frontage on the Detroit and Rouge Rivers – one of the few sections of Detroit that has been gaining population.

Bodurow and Creech have expanded the research project after receiving a \$50,000 grant from the Ford College Community Challenge (Ford C3) of the Ford Motor Company Fund for a proposal to create Michigan's first net-zero energy community in Southwest Detroit.

The Lawrence Tech team is working closely with the Southwest Detroit Development Collaborative – a coalition of more than a dozen community nonprofit groups – and the Southwest Detroit Business Association. The research team is evaluating potential projects that can leverage existing assets and planned regional infrastructure investment while also incorporating new initiatives that community leaders have identified.

Energy self-sufficiency is a lofty goal that has been attempted in only a few communities around the world, but it may be achievable in the project area, according to Associate Professor Robert Fletcher, director of the alternative energy engineering program at Lawrence Tech who is a consultant for the Ford C3 project.



Studio[Ci] has proposed turning an abandoned rail link into a public greenway corridor that would connect the Michigan Central Station, Corktown and the St. Anne's neighbourhood with the riverfront and other community assets.

The design proposal that has generated the most interest is wrapping the Michigan Central Station in solar panels that would generate enough electricity for future uses of the historic structure and perhaps hundreds of homes. Other proposed alternative energy sources include geothermal, subterranean storage, and hydrocurrent energy systems in the Detroit River.

"A hybrid alternative energy approach could supply much if not all of Southwest Detroit's energy needs," Fletcher said.

The other side of the self-sufficiency equation is reducing consumption. The studio[Ci] team has created a baseline "eco-footprint" for the neighborhood to

document current neighborhood consumption and capacity in six categories – land, water, food, energy, mobility and materials, goods, and services.

"We then asked ourselves what does Southwest Detroit have, in critical mass, that can be leveraged in support of sustainability and net-zero energy?" Bodurow said.

The team seeks to analyze and identify the optimum locations for energy/density hubs that would incorporate bike paths, car-and-bike-share facilities, electric-vehicle charging stations, and a more responsive public transportation system.



Members of the studio[Ci] team are (left to right) HaiBin Tan, Aaron Olko, Adjunct Faculty Calvin Creech, Assistant Professor Constance Bodurow, Jordan Martin, and Kurt Neiswender.



The Lawrence Tech research team has identified five essential elements of sustainable urbanism:

- Alternative energy sources, including solar, geothermal heat pumps, submerged river turbines, and subterranean compressed air.
- Mixed-use density, focusing on transit-oriented development and targeted in specific areas of the community, particularly where existing populations and services exist.
- Enhanced urban mobility for the movement of people, goods, and services.
- The public realm, which includes the pedestrian environment, parks and greenways, and streetscapes.
- The green economy, which includes business ventures that provide training, employment, and reuse of existing manufacturing facilities to contribute to economic sustainability.

“We believe in a holistic and systemic approach to the design of a sustainable urban environment,” Bodurow said.

To bring together information from many sources that can be understood more easily, studio[CI] has created a unique digital interface that incorporates ESRI ArcGIS, a geographic information systems computer program taught at Lawrence Tech, and the popular programs Google Earth and Google SketchUp.

“We use our digital interface to map data, conduct analysis, and then design. We seek to determine the ‘geography of convergence’ of social, economic, and environmental asset density in the Southwest Detroit neighborhood and then develop formal design recommendations,” Bodurow explained. “Our goal with the Ford C3 project is to develop a prototype for the city and region by creating a green guidelines plan that is enhanced by a digital interface to supporting data.”



One proposal from studio[CI] would transform the long-closed Michigan Central Station into an energy hub where photovoltaic arrays on the south, east and west facades would generate electricity for both activities in the building and the neighborhood. It could serve as an alternative-energy symbol for the city and the region.

Creech is modeling potential green initiatives based on data from the 2010 Census, the LEED rating system for neighborhood development criteria, and the existing plans of community leaders. Since there is no single solution for reaching energy self-sufficiency, a geospatial modeling approach has been developed to find the optimal locations for siting a variety of sustainable energy approaches throughout the community, according to Creech.

“The community needs to follow a comprehensive approach that develops tangible projects, funding sources, and a phased implementation strategy,” Creech said. “We believe the research provided by the Lawrence Tech team should provide a sound foundation for grant applications and public project proposals.”

The Ford Fund has awarded five grants to colleges for projects in environmental sustainability, including a community bike share program at Georgia Tech University. One requirement of the grant is the active engagement of students throughout the project.

“This is the generation that will have to come up with the solutions for maintaining a sustainable society,” said Michael Schmidt, director of education and community development for the Ford Motor Company Fund.

CoAD students who have worked as research assistants on the Ford C3 Southwest Detroit project are Jordan Martin, Kurt Neiswender, Aaron Olko, and HaiBin Tan. □EP

Good sports

Lawrence Tech joins NAIA and will add more



Once a national powerhouse in basketball, the Lawrence Tech Blue Devils hope to revive the excitement of college athletics on campus by joining the National Association of Intercollegiate Athletics (NAIA). The University will field four varsity teams in the coming academic year and five more the following year.

Lawrence Tech was admitted by the NAIA Council of Presidents at its annual conference held in Kansas City in April.

Lawrence Tech President Lewis Walker talks about the role he expects athletics to play at Lawrence Tech during the pep rally held in April.

The NAIA was founded in 1937 and serves as the governing body for athletics for nearly 300 colleges and universities with 60,000 student-athletes throughout the United States and Canada.

Lawrence Tech President Lewis Walker made the case for Lawrence Tech's admission, along with Dean of Students Kevin Finn, and Director of Recreation, Athletics, and Wellness Scott Trudeau.

Students, faculty, and staff celebrated Lawrence Tech's new status with a pep rally in the Buell Management Building atrium on April 27. In addition to hearing the good news directly from Walker and Trudeau and meeting the coaches, the crowd participated in the first singing of a new Lawrence Tech fight song.

The song was composed by members of Students Planning Activities Monthly (SPAM), and SPAM Executive Director Krysta Foster led the singers who introduced the lyrics:

D-E-V-I-L-S

We are better than the rest

Lawrence Tech will take you down

Blue and White, let's hear the sound

Blue!

White!

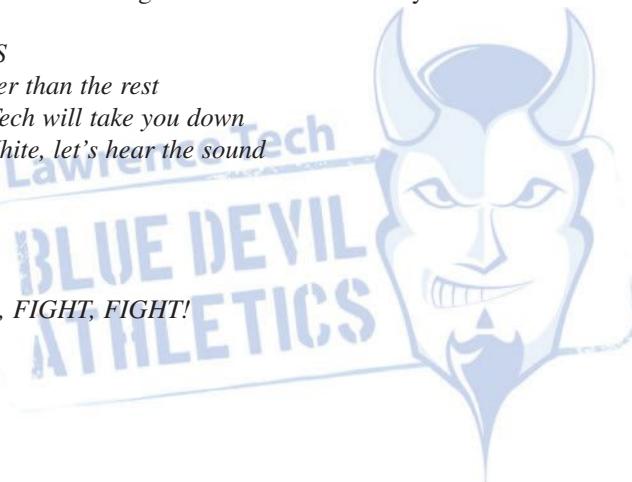
Blue!

White!

Blue Devils, FIGHT, FIGHT!



Krysta Foster (at the podium), executive director of Students Planning Activities Monthly, leads the group of spirited singers who introduced Lawrence Tech's new fight song at the pep rally in April.



varsity athletics.



Lawrence Tech's Dustin Hurrish (center) sends the ball upfield during a game in September, while teammates Kurt Morris (right) and Sean Pederson go on the attack.

Walker explained that the NAIA's approach to academic achievement and character development fits well with Lawrence Tech's high academic standards and focus on leadership education.

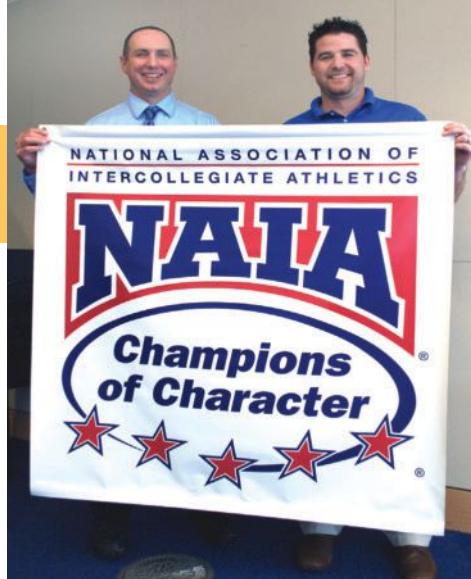
The NAIA requires all freshmen athletes to meet stringent academic standards for initial eligibility and then show steady progress toward graduation. Academic progress is monitored throughout each academic term. The NAIA's Champions of Character program is designed to strengthen character and instill strong values in student-athletes and coaches.

"The NAIA's mission of promoting the development of well-rounded students and productive citizens through intercollegiate athletics was very appealing to us," said Walker. "Varsity athletics add another dimension to Lawrence Tech's distinctive leadership skills program and they enrich the campus life experience. I also see them as a way to encourage a lifetime of healthy lifestyles. The athletic program will provide another exciting opportunity for our students to grow as leaders and well-rounded individuals."

This fall Lawrence Tech will field varsity teams in men's soccer, women's volleyball, and men's bowling. During the 2012-13 academic year, women's soccer and men's and women's cross country will be added in the fall and men's and women's basketball will be added in the winter.

The men's varsity hockey team will continue to compete in the American Collegiate Hockey Association.

In the fall of 2012 Lawrence Tech will join the NAIA's Wolverine-Hoosier Athletic Conference that includes Aquinas College, Concordia University, Cornerstone University,



Dean of Students Kevin Finn and Director of Recreation, Athletics, and Wellness Scott Trudeau proudly display a new banner from the National Association of Intercollegiate Athletics.



In its first season as a varsity sport, the Lawrence Tech's women's volleyball team was coached by Nicole Deaver, who was also works in student services. Players in the back row are Alicia Miller, Sara Hudson, Joy Sportel, Abby Schroeder, and Gena Brolat. In front are Jennifer Neino, Angie Bates, Brean Bush, Laura Saler, and Elizabeth Gildea.

Davenport University, Lourdes College, Indiana Tech, Madonna University, Siena Heights University, the University of Michigan-Dearborn, and the University of Northwestern Ohio.

Collegiate athletics are an important part of Lawrence Tech's heritage. In the 1940s and early 1950s, the Blue Devils represented Michigan in the National Association of Intercollegiate Basketball tournament and the National Invitation Tournament.

Varsity athletics were suspended in the 1960s because of lack of playing and practice facilities. In 1987, Lawrence Tech opened the Don Ridler Field House, which will undergo renovations for the new varsity programs. Outdoor athletic facilities will also be upgraded and improved.

Dean of Students Kevin Finn said the new athletic programs will bring more school spirit to the campus. "The entire Lawrence Tech community will benefit from the addition of competitive intercollegiate athletics, and students, alumni, faculty, and staff will feel a revitalized sense of school pride as we cheer on our Blue Devils," Finn said.

More varsity teams could be added in the future. "There is already a strong interest on campus in men's lacrosse and men's volleyball," Trudeau said.

For more information about Lawrence Tech's varsity athletic programs and schedules, go to www.ltusports.com. □EP

State-funded KCP initiatives diversify the college experience

A five-year state grant has provided the impetus for a series of programs that have dramatically enriched the campus experience of many Lawrence Tech students. The State of Michigan's King Chavez Parks (KCP) Initiative specifically targets students who are financially or academically at risk, non-traditional or first-generation, or from traditionally underserved populations.

Lawrence Tech won this competitive grant that has averaged \$150,000 a year through a program named in honor of civil rights pioneers Martin Luther King, Jr., Cesar Chavez, and Rosa Parks.

The centerpiece is the Scholars Program, which was modeled by Dean of Arts and Sciences Hsiao-Ping Moore on a similar program at the University of California at Berkeley. Students are invited to join based upon their willingness to contribute to campus life and the academic community. Some are 4.0 honor students, while others need to catch up academically. These students come from diverse academic, socio-economic, and cultural backgrounds, and they all can benefit from forming strong personal bonds and being more involved in campus life.

Khoeung Chov and Andrea Freile of the Scholars Program explain the importance of KCP programs at Lawrence Tech to State Sen. Vincent Gregory (D-Southfield).

Each year incoming first-year students are admitted to the Scholars Program after signing a contract setting goals for their contributions to campus life. They meet every other week and organize two or three events every semester. They also have a study room in the Science Building where they can build an academic support network and a sense of community.

"The Scholars Program is about inclusion and support for each other," said Senior Lecturer Holly Helterhoff, the program director. "Many of our members become campus leaders."

Architecture student Greg Sikora said the program showed him how he was missing out on many of the best parts of the college experience. "I've seen students in the Scholars Program reach their potential," he said. "It has created bridges to many different groups and cultures within the University."

This year Scholar Khoeung Chov, a biomedical engineering major, sat in on an introductory chemistry class and then led a tutoring session for anyone who needed extra help. It's an example of how a program developed for KCP students has benefitted the general student population at a time when more incoming students are having trouble with chemistry.

"Lawrence Tech is heavy in science, technology, engineering,

and math, or STEM. Through no fault of their own, many of our students are coming to campus with strong potential but an underdeveloped foundation in those critical STEM courses," Helterhoff said. "We have learned that students need support inside the classroom, and often feel lost in the shuffle once class ends. Building programs that reach across majors helps students take advantage of academic and other support opportunities they might not otherwise know about."

The Scholars provide leadership for Summer Connections, an intensive one-week summer bridge program that introduces new students to the college experience. That has been the best Scholars experience for Andrea Freile, a media communication student.

"It was a fun-filled week [and] I was able to make students feel welcomed and have a blast! I

enjoyed seeing how everyone in the program got really close to one another," she said.

The Scholars Program is just one element of Lawrence Tech's Students in Technology Achieving Results (STAR) program, which targets underrepresented college populations.

Recently KCP officials honored Lawrence Tech for its Scholars Program, along with the Arts and Sciences Undeclared (ASUD) program, multicultural student support, disability services, clinical counseling, commuter student support, pre-course instruction, and Summer Connections, all of which target a non-traditional student population while benefiting the entire University.

"We were honored as a Best Practices university specifically because of our institutional buy-in," Moore explained. "Our KCP programs reach across campus to serve all of our students." □EP



In her role as a tutor, LaTasha Watkins of the Scholars Program explains the function of ultra-capacitors to other Lawrence Tech students.



Lawrence Tech students learned the value of volunteering when they helped pack food containers at Forgotten Harvest in August.

Job prospects brighten for engineering graduates

After two years of trying to get companies to return her calls, Peg Pierce of Lawrence Tech's Office of Career Services (OCS) now finds it hard to keep up with all the requests from companies looking for recent college graduates with engineering degrees.

"In the automotive industry, the demand for engineers has really picked up in the last three to six months," Pierce said. "We're getting calls every day from companies wanting to promote opportunities that they have."

Job listings on Lawrence Tech's CareerQuest website have more than doubled since last year, and most of that gain has come in engineering. On a typical day in April, 183 of the 259 listings – or 71 percent – were related to engineering.

Pierce said the opportunities for engineering expertise aren't always where students expect to find them. Biomedical engineer-

Lawrence Tech engineering graduate student Karthik Deveraj talks with Bosch recruiter Jens Hoffman during the networking reception for employers held at Lawrence Tech in April.

ing students look for jobs in the health care industry, yet General Motors has recently been hiring biomedical engineers to work on ergonomic design and crash testing.

Lawrence Tech recently hosted a job fair for Landon IP, a Virginia-based legal services firm that opened an office in Southfield several years ago to draw on the engineering talent in Southeast Michigan. The company needs engineers in many disciplines to analyze patent applications.

Demand for new graduates is growing in other sectors as well. Quicken Loans was making the rounds at college job fairs in the Detroit area to fill about 110 openings, mostly at its offices in down-



town Detroit. There were openings in IT, marketing, public relations, and human resources, in addition to mortgage banking.

"In the past year we've seen a steady increase in employment

opportunities, but the big difference with this career fair was that everyone here was actively recruiting for positions that needed to be filled," Pierce said. □EP

Ross Controls CEO joins board of trustees

John G. Smith, president and CEO of Ross Controls in Troy, has been named to the Board of Trustees at Lawrence Tech.

A 37-year veteran of the company, Smith served as chief financial officer, chief operating officer and president before becoming CEO in 2009.

The family-owned manufacturing enterprise has operations in seven other countries, and Smith was involved in opening a new manufacturing facility in China. Among his many responsibilities with the company, he has negotiated several labor agreements with the United Auto Workers and designed and installed a lean manufacturing system.

Smith has served as chairman of the Michigan Manufacturers Association, and he is a board member of the



John Smith

National Fluid Power Association. He earned a degree in accounting from the University of Detroit Mercy.

Trustees at Lawrence Tech establish strategic direction, help formulate and approve major institutional policies, and hire the University's executive team. They serve without compensation. □EP



Foster named top business student in southeast Michigan

In February Crain's Detroit Business Publisher Mary Kramer presented Lawrence Tech junior Krysta Foster (right) with a plaque recognizing her as the Crain's 2011 Newsmaker Scholarship winner. Foster was chosen because of her excellent academic record and her stellar performance in on-campus activities. She was one of the honorees at the annual Crain's Detroit Business Newsmaker program at Joe Louis Arena.

Detroit art gallery showcases student work

This spring 15 Lawrence Tech design students exhibited their thesis projects at the Studio Couture Detroit art gallery that two faculty members established on Woodward Avenue in downtown Detroit with help from students.

The student work ranged from a website for new methods of music distribution to packaging that evaluates sustainability. One student explored children's furniture while another looked at e-textbooks. These were the final art

pieces of seniors who graduated in May with bachelor's degrees in graphic design and imaging-digital arts.

"Taking those projects out of an academic setting and offering the public a glance into Lawrence Tech's design studio supports the goals and objectives of our design programs," said Professor Steven Rost, director of the graphic design and imaging-digital arts programs at Lawrence Tech.

Creating the display space was part of the process for a thesis class taught by Assistant Professor Peter Beaugard. The students used kickstarter.com, a website that allows individuals to raise money for arts-oriented

Lawrence Tech students gathered at Studio Couture Detroit on Woodward Avenue for the opening of a thesis show in April.



projects, to obtain 37 pledges and raise \$2,095 within a month. The funds went to renting, promoting, prepping, and refurbishing the display space.

Beaugard and Adjunct Faculty Blake Almstead, a creative director at Compuware, founded the gallery in a vacant storefront that used to be a designer jeans shop. They decided to recycle both the store's name and setup. The grand opening was held in March.

Studio Couture Detroit is a multipurpose arts incubator space with a gallery, student-directed design studio, and community arts space. Its mission is to use art and design methodologies to promote community building and urban renewal. The space creates entrepreneurial opportunities and demonstrates the theory and practice of art and design through lectures, panel discussions, and workshops. Lawrence Tech provides financial support.

For more, visit www.studiocouturedetroit.org. □EP

O'Hara wins marketing job with Michigan First Credit Union

Janelle O'Hara, BSMC'11, outperformed a field of 30 applicants to win a full-time job at Southfield-based Michigan First Credit Union as the spokesperson for the Young & Free Michigan marketing campaign by receiving the most votes in online balloting in April.

The purpose of the Young & Free Michigan campaign is to create relationships with members of Generation Y (ages 18 to 25) by providing useful information for managing their finances independently, according to Linda Douglas, vice president of marketing for Michigan First.

O'Hara will provide entertaining content, helpful advice, and financial literacy through her blogs and videos.

The Young & Free Michigan program started in February with a call for creative young adults in

Generation Y to showcase their ability to relate to their age group while demonstrating their creative tech-savvy.

At the time O'Hara was working part-time at Lawrence Tech's Office of eLearning Services filming, editing, and uploading videos. She was also involved in Accidental Jeggings Productions, which makes short films, funny YouTube videos, and podcasts.

"This job is perfect for me, because it incorporates all of the activities I already do for fun!" O'Hara said. □EP



Janelle O'Hara is congratulated on being named Young & Free Michigan "spokesperson" by Michigan First Credit Union President/CEO Michael D. Poulos and Vice President of Marketing Linda Douglas.

Students win scholarships for steel wheel designs

The Wheels Task Force of the American Iron and Steel Institute's Steel Market Development Institute (SMDI) is providing scholarships to transportation design students who competed in the 2011 steel wheel design competition held at Lawrence Tech in March.

"The steel wheel design competition presented student designers with a rare opportunity to influence the growing automotive styled-steel-wheel market," said Ron Krupitzer, SMDI's vice president for the automotive market. "This year, the students took steel to a new level in terms of lightweighting and their designs proved to be low-mass, feasible concepts that automakers and customers would love."

Wheel concepts for luxury cars were judged by a panel of steel industry experts, automotive designers, and wheel manufacturers on celebrating the attributes of steel, changing customer perception of steel wheels in the automotive industry, creativity and feasibility in a real-world design, and concept.

Sophomore Colin Bonathan won the \$2,500 first-place scholarship with his design for a 2011 Chrysler 300 that has a cylindrical shape offering more character than today's flat blanks. It was based on a paper model he designed as a solution for simulating folding steel.

Senior Chris Nichols, the win-

ner of last year's competition, won the \$1,500 second-place scholarship with a presentation via Skype from Germany, where he was interning with Volkswagen. His wheel design for the luxury electric car Fisker Karma integrates heatsinks on the spoke, drawing heat from the hubmotors and electronic components for a func-

tional and appealing design.

Sophomore Matthew Eash was the third-place \$1,000 scholarship recipient with a modular design for a Lincoln MKR concept that features a lightweight, steel-stamped backbone with a concave side in front to show depth and accentuate its steel-rolled spokes. Eash's design would allow for owner customization. □EP



Transportation design student Matthew Eash fields a question from a judge during the Wheels Task Force scholarship competition.

DeGennaro steps down, McCord named interim dean

After almost 20 years of leadership in the College of Management, Louis DeGennaro will retire as dean on June 30. Associate Provost Alan McCord will serve as interim dean until a replacement is selected next year.

Associate Professor Jacqueline Stavros will serve as interim associate dean of the college, which was created in 1939 and enrolls more than 900 undergraduate, graduate, and doctoral students.

DeGennaro has been with the University for 40 years and plans



Louis DeGennaro



Alan McCord

to return to the college's full-time faculty following a sabbatical during the coming academic year.

"The College of Management has been transformed under Lou DeGennaro's leadership, and we

are grateful for his dedication and hard work, as well as the support he has provided to the college and the University throughout his years of service as an administrator," Provost Maria Vaz said. "I know Dr. McCord and Dr. Stavros will do a wonderful job in continuing to move the College of Management forward."

DeGennaro joined the faculty in 1971, and served as associate dean of Lawrence Tech's College of Management and interim dean of the College of Engineering before becoming dean of the College of Management in 1996.

Under DeGennaro's leadership, the College has added doctorate degree programs in business

administration and information technology, as well as several new bachelor's and master's degrees. He developed an international MBA program.

McCord has served as associate provost and dean of graduate studies at Lawrence Tech for the past year. He joined Lawrence Tech in 2003 as a professor of management and the academic director of information technology programs and operations.

In 2006, he became the executive director for the University's online initiatives, which were expanded into the new e-Learning Services department in 2009.

□EP

Library celebrates faculty's scholarly achievements

The Lawrence Tech Library hosted an April 14 reception honoring the publishing achievements of the faculty. Books, journal articles, and conference proceed-

ings published during 2010 were highlighted, and the gathering was also an opportunity to recognize all faculty publications of the last seven years.

To illustrate the breadth of the faculty's creativity, Assistant Professor Lior Shamir of the Department of Math and Computer Science briefly dis-



cussed the new publishing model associated with open access peer-reviewed scientific journals, and Senior Lecturer Sara Lamers of the Department of Humanities, Social Sciences, and Communication read several poems from a forthcoming publication.

Faculty publications that are part of the library's physical collection will soon be identified in the catalog with a digital bookplate designed by MBA student Dwight Evans. □EP

Student helps restore furniture designed by Frank Lloyd Wright

Stephanie Kolpacke, a sophomore with a dual major in architecture and interior design, is playing a lead role in restoring the original furniture that Frank Lloyd Wright designed for the Affleck House that Lawrence Tech owns in Bloomfield Hills.

During the spring semester she and George Charbeneau, woodshop manager for the College of Architecture and Design, restored eight of the original chairs that, over the years, had suffered water damage and discoloration. It was a laborious process that took two months to complete. Eventually two dozen pieces of furniture will be restored.

Kolpacke took on the project as a part-time employee of the woodshop when Charbeneau realized that it was best to have one person apply the new stain for the

furniture in order to get the most consistency. Studying Frank Lloyd Wright in an architecture history class helped prepare her for the task.

The process started with instruction from Bill Witkowski, owner of the Michigan Antique Preservation Company in Wyandotte, on how to clean the



wood surfaces and replace them when necessary. He identified the finishes to be used and how they should be applied to replicate the proper shades.

"We couldn't have done this without his help," Kolpacke said.

Witkowski is a conservator who has received training from the Smithsonian Institution and several other experts in furniture conservation. "It is very detailed work. It requires a lot of patience and sensitivity to the object," he said. □EP

Lawrence Tech student Stephanie Kolpacke and Woodshop Manager George Charbeneau perform restoration work on furniture for the Affleck House in Bloomfield Hills.

Teaching awards honor initiative in the classroom

Assistant Professor of Architecture James Stevens has won Lawrence Tech's Teaching and Using Technology award for 2011, and Assistant Professor of Civil Engineering John Tocco has won the Henry B. and Barbara J. Horoldt Award for Excellence in Teaching for 2011.

Stevens joined the Lawrence Tech faculty in August 2008 and established the makeLab on the lower level of the Architecture Building last fall. He has focused

his teaching and research in the area of digital fabrication technology and advanced parametric modeling software.

Stevens has introduced several technologies: Computer Numeric Control (CNC) machining, 3D plaster printing, CNC hot-wire



Provost Maria Vaz is flanked by James Stevens and John Tocco, this year's winners of two prestigious teaching awards at Lawrence Tech.

Chinese team uses Lawrence Tech model to prepare for Formula SAE race

A team of 10 college students and two faculty advisors from Shanghai University of Engineering and Science (SUES) spent the spring semester at Lawrence Tech preparing for the Chinese Formula SAE competition in the fall.

Last year SUES began competing in Formula SAE, which challenges students to design, build, and compete with a scaled-down Formula-style racer. Lawrence Tech has had a partnership with SUES for several years, and the Chinese university's administrators decided to take advantage of Lawrence Tech's long history of SAE competition.

"Your Formula SAE team is very good, so we have come here to learn," explained Hao Chen, one of the faculty advisors.

The time spent at Lawrence Tech is the equivalent of a senior project for the Chinese students, who are majoring in automotive engineering. Several students are also taking courses.



The students expressed their gratitude to Lawrence Tech's Formula SAE team, especially team leader Aaron Hanson. "We keep asking questions and they are very patient," one of the students said. "Aaron has worked very hard to help us."

Chen said he hopes SUES will send another Formula SAE team to Lawrence Tech, but first funding will have to be found. Some of the students hope to return to Lawrence Tech to study for master's degrees. □EP

cutting, parametric modeling software education, and full-scale fabrication assembly. This innovative use of technology has enabled students to bridge the gap between the digital model and a full-scale realization.

Tocco, BSCE'83, has been teaching at Lawrence Tech since 1993. During that time he has served as the vice-chair for the University Assessment Committee, the assessment coordinator for the Department of Civil Engineering, as well as the civil engineering coordinator for the ABET accreditation preparation.

Tocco also served on the Department of Civil Engineering Advisory Board and participated in the development of master's-level certificate programs. □EP

Chinese students working on their Formula SAE vehicle in the Fab Lab in the Engineering Building are (L-R) Qihao Yuan, Xinmiao Chen, Zichao Wang, Cheng Chen, Chuanqi Wang, and Sibing Xu.

Three Marburger awards recognize outstanding achievement

The Mary E. and Richard E. Marburger Fund For Excellence in Achievement Awards were presented April 26 in the Science Building auditorium. The recipients for 2011 are:

- **Staff Person of the Year:** Will Liska, BSCS'11, BSPh'11, enrollment services associate in the Office of the Registrar and the DTE One Stop Center.
- **Administrator of the Year:** Cyndi McMichael, director of international programs.
- **Champion for Institutional Excellence and Pre-eminence:** Keith Nagara, BSME'95, MAE'01, director of the transportation design bachelor's degree program.

The Marburger award selection committee was looking for exceptional competence and conscientious efforts, positive attitude, innovative ideas, and a constant willingness to be a team player. The winners received \$1,000 from the Marburger Fund for Excellence in Achievement, which was established with donations from colleagues, alumni, and friends when Marburger retired as president of Lawrence Tech in 1993.

Liska is a financial aid counselor in the DTE One Stop Center, where he began working in 2007. He's in charge of compliance with federal regulations and often functions as a software developer.

He understands the frustrations of financial aid from both sides – he graduated in May with a bachelor's degree in physics and computer science.

"Everyone has described Will as a person with a very positive attitude who isn't afraid of a challenge," Walker said.

McMichael has worked at Lawrence Tech since 2005 and



Glen LeRoy. "He has championed the program to pre-eminence in just four short years."

Nagara has also taken the lead in creating a bachelor's degree program in industrial design and a concentration in fashion design.

□EP

Lawrence Tech President Lewis Walker (L) and President Emeritus Richard Marburger flank two of this year's Marburger award winners, Will Liska and Keith Nagara.

has been director of international programs since 2007. Her office oversees the records of 600 international students for both the University and federal government, and she deals with a wide variety of issues facing Lawrence Tech's international students, alumni, and faculty.

"Cyndi is always willing to go the extra mile," said Dean of Students Kevin Finn. "She remembers to serve our students first and has an open willingness to do more."

Nagara, who has degrees in mechanical engineering and automotive engineering from Lawrence Tech, was co-director of the transportation design program when it was launched in 2007 and took over as director the following year. It has already been recognized as one of the top eight automotive design programs in the country.

Under Nagara's guidance, Lawrence Tech has expanded its presence at the North American International Auto Show held in Detroit every January. This year he introduced "The Main Event," a networking reception for designers.

"Keith Nagara represents the personification of this award," said Dean of Architecture and Design

Lawrence Tech wins Ford-sponsored contest

Lawrence Tech seniors Taylor Manuilow and Chris Nichols show off the trophy and cash prize they received for winning last fall's UDM/Ford Innovation Contest to develop ideas for the vehicle interior of the future. In a three-minute video, they submitted plans for using computer programming to enhance the driving experience while not diverting the driver's attention from the road. Teams from Villanova and the Milwaukee School of Engineering finished second and third in the competition hosted by the University of Detroit Mercy. At right in the photo is Keith Nagara, director of the transportation design degree program.



Architecture students complete Freedom by Design project

Fifteen members of the American Institute of Architecture Students (AIAS) chapter at Lawrence Tech recently completed a design-build project in Southfield for the non-profit Rebuilding Together Oakland County (RTOC).

They were also participating in Freedom by Design, an AIAS community service and outreach

program that gives architecture students real-world experience in designing and constructing home improvements to give people with limited mobility more freedom of movement.

Southfield Building Inspector Kerry Comerford contacted the chapter about a project for the Jordan family, who needed stor-

age space on their property. The chapter assessed the site, designed the storage space, prepared a set of construction documents, and got a building permit in a couple of weeks.

After receiving a substantial concrete donation from Superior Materials, LLC, of Farmington Hills, the Lawrence Tech students

dug trench footings, constructed forms, and poured footings and the slab.

The Detroit Carpentry Joint Apprenticeship Training Committee in Ferndale constructed the shed and installed it with guidance from Bob Makowski of the Michigan Regional Council of Carpenters.

The Freedom by Design members included student project managers Dave Andrus, Jake Boyd, and Eliza Morales; designers Patrick Borden, Kevin Brown, Shaun Carollo, Samantha Doherty, Jason Flint, Susan Karczag, Meaghan Markiewicz, Ryan Maynard, Michael Neal, Ellen Rotter, Jeff Sebring, and Ryan Tucker. Associate Professor Dan Faoro, interim chair of the Department of Architecture, and Adjunct Faculty Jolenta Skorupka also worked on the project. □EP



Pouring the concrete for a Freedom by Design project are (left to right) students Ellen Rotter, Samantha Doherty, Meaghan Markiewicz, Kevin Brown, and Michael Neal.

Lawrence Tech at the Auto Show

Lawrence Tech's 2010 Formula SAE race car (in the foreground) and the 2010 Formula Hybrid race car were prominently displayed in the Cobo Hall concourse for the 2011 North American International Auto Show in January. Last year's Baja SAE vehicle can be seen in the back. The exhibit featured design work by students in the transportation design program, including numerous concept models, drawings, and video.



Army Corps of Engineers partners with Lawrence Tech

Two research arms of the U.S. Army Corps of Engineers have entered into an educational partnership agreement and memorandum of understanding with Lawrence Tech that provides a framework to pursue future collaboration and potential joint projects.

The U.S. Army Engineer Research and Development Center (ERDC) in Vicksburg, Miss., and the Cold Regions Research and Engineering Laboratory (CRREL) in Hanover, N.H., are partners in the agreement.

The Army Corps of Engineers spends some \$1.5 billion a year on research and new technologies to support the Departments of Defense, Homeland Security, and Transportation, and other government agencies, in addition to its civil works mission throughout the country. This is its first ERDC educational partnership agreement in metro Detroit.

"The Army Corps is looking for key people and universities to help with research so that we can manage our workload efficiently. We want to take advantage of their

expertise. It should be a win-win," said U.S. Army Corps of Engineers Lt. Col. James Davis, the liaison officer for the agreement.



Davis uses an office at Lawrence Tech on a part-time basis. College of Engineering Dean Nabil Grace said that having him working in the university environment helps provide many research opportunities for students and faculty, while also helping the country.

"This is a great opportunity for Lawrence Tech to utilize and expand our research capabilities and bring additional federal research dollars to Michigan by working on projects that are important to the Army Corps of Engineers," Grace said. □EP

Lt. Col. James Davis

Student research on autonomous vehicles and robotic systems is growing

Engineering students at Lawrence Tech have formed the Autonomous Vehicles and Robotic Systems Student Committee as part of the Great Lakes Chapter of the Association of Unmanned Vehicle Systems International (AUVSI). All members are par-

ticipating in research projects in autonomously operating vehicles and various robotic systems.

Lawrence Tech's master's degree program in mechatronics, which concentrates on autonomous/conventional ground vehicle and robotic systems engineering,

was started in the fall of 2006 by Professor Vladimir Vantsevich. Sixteen people have graduated, and there are now 32 students in the program.

Vantsevich, who is the student committee's faculty advisor, places a strong emphasis on student

research projects. Since 2008 mechatronics students have joined him in writing eight research papers that have been published in peer-reviewed professional conference proceedings and journals.

Participation in an ongoing research project is a requirement for joining the new student committee, and more than 20 students, including several undergraduates, have accepted the challenge. They are involved in math and computer modeling of various robotic systems, designing and building autonomously operating systems and vehicles, developing data acquisition systems, and testing vehicles and robots.

Serving as co-advisors are Bruce Legge, president of the AUVSI Great Lakes Chapter, and John Wilson, sales and engineering manager of National Instruments, which has been a strong supporter of mechatronics at Lawrence Tech. □EP



Working on research projects involving unmanned aerial and ground vehicles are (left to right) Professor Vladimir Vantsevich, Shuocheng Jiang, Zeran Gu, Yuchen Feng, Zhaolong Wang, Jesse Paldan, Peichao Zhu, and Xiang Li.

Computer science student wins prestigious travel grant

Computer science graduate student Chris Kawatsu won a grant from the National Science Foundation to travel to the 15th annual Copper Mountain Conference in Colorado in March where he and Assistant Professor Yin Wang presented two papers.

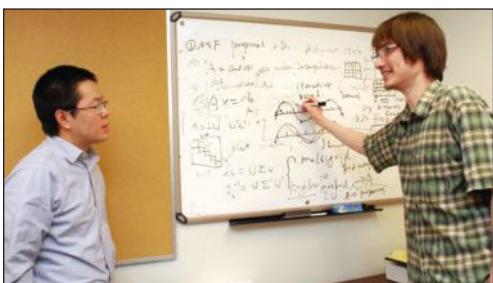
As a winner in the student paper competition, Kawatsu was given \$500 for travel, a week of lodging, and free registration to the conference, which was on multigrid methods in computational mathematics.

Kawatsu, who did his under-

graduate work at the California Institute of Technology, is working with Wang on finding much faster numerical solutions to partial differential equations by using the multigrid method instead of the standard iterative methods.

“By using multiple scale grids we are able to isolate different frequency modes in the error of the approximate solution and eliminate them much more quickly when compared to standard iterative methods,” he said.

When the grid is increased to 1,000,000 points, the multigrid



Assistant Professor Yin Wang and computer science graduate student Chris Kawatsu discuss the research they are doing on the multigrid method for solving partial differential equations.

Academic choices expand

Once again responding to trends in the marketplace, Lawrence Tech has added a fast-track graduate certificate in health IT management that can lead to jobs in the fast-growing health services field. There are separate tracks for clinical workers who want to transition into the IT field and IT workers who would like to pursue a career in health IT management.

This certificate offered by the College of Management may be completed with a minimum of 12 credit hours. Health IT management courses can also be taken as a concentration in several degree programs – an MBA, a master’s degree in information systems, a bachelor’s degree in information technology, and a bachelor’s degree in business management.

In the past two years, Lawrence Tech has introduced more than

40 fast-track certificate programs to help position graduates for employment opportunities in emerging areas of the economy, including energy, defense, film, and life sciences. Many degree programs can also lead to careers in these and other growing sectors.

In the past year, Lawrence Tech also added a doctorate program in engineering, a Bachelor of Arts in Architectural Studies, a five-year program for a bachelor’s degree and master’s degree of architecture, and a graduate certificate in interdisciplinary sustainability.

At its June meeting, the Board of Directors will be asked to approve a Bachelor of Science in Robotics Engineering and a Bachelor of Science in Biomedical Engineering Technology. □EP

method will take about 17 minutes to generate a solution while the standard iterative method will take about 12 days, according to Kawatsu.

Wang and Kawatsu presented

two papers at the conference: “Convergence of a Sixth Order Compact Difference Scheme for the Convection Diffusion Equation Using Multiscale Multigrid Method” and “Comparison of Two Higher Order Compact Computation Strategies for Handling Boundary Layers.” □EP

Campus roundtable provides feedback on federal retraining program

U.S. Rep. Gary Peters (D-Mich.), left, and Lawrence Tech President Lewis Walker listen while U.S. Rep. Sander Levin (D-Mich.) makes a point during a February roundtable discussion on the federal Trade Adjustment Assistance (TAA) program. With many federal programs facing the budget ax in Washington, the two congressmen came to the University to hear from participants in the retraining programs, including several Lawrence Tech students.



KEEN honors Lawrence Tech with two awards

Lawrence Tech Provost Maria Vaz (center) accepts the “Friend of KEEN” award from Kern Family Foundation President Jim Rahn and Sarah Hanna, program associate of the Kern Entrepreneurship Education Network (KEEN). During the KEEN winter conference in Arizona, Lawrence Tech also won the “Best in Class” for serving as a role model in its efforts to promote the KEEN mission and the entrepreneurial engineering mindset across campus.



Lawrence Tech grad plays key role with GM's hybrid vehicles

When the new Chevrolet Volt was named by *Motor Trend* magazine as its "2011 Car of the Year," amid many other honors and accolades, Ciro Spigno, BSEE'08, felt a sense of personal accomplishment for his role in the successful launch of the groundbreaking vehicle.

Spigno is one of several recent Lawrence Tech graduates working on GM's hybrid systems. When he started with the automaker just a month after receiving his electrical engineering degree, his first assignment involved high voltage test and development on GM's two-mode hybrid trucks.

"I developed and calibrated battery algorithms for vehicle safety and state-of-charge calculation," he said. "I was then transferred to the Volt project, where I tested and developed an algorithm for programmable charging."

This function gives drivers considerable control of their "fill-up" costs. It enables users to input the rate table of their electrical utility. It calculates the time needed to charge the battery pack and then selects the least expensive time for recharging, based on the driving schedule.

To give customers more insight into the state of their vehicle, Onstar developed a mobile application to check the state of charge on the battery, the time at which the vehicle will complete charging, and the range available. The application also locks and unlocks the car. Spigno worked to integrate this award-winning mobile application into the vehicle controls.

"The battery state estimator on the Volt was quite complex," Spigno noted. "With the experience I gained on the two-mode system, I worked on a team that calibrated, tested, and designed the battery-state-estimator function. This was quite an effort for the first lithium-ion battery in

consumer vehicles."

Now that the Volt has been launched, Spigno has moved to the position of energy storage system performance engineer for future hybrid applications. Based at GM's Milford Proving Grounds, he is responsible for integrating the battery pack into the vehicle. That role includes balancing battery performance with battery life.

"I take the greatest pride in the Volt project," he said. "It was on a tight timeline during one of the most turbulent times at GM. Hours were extreme, including working weekends and late during the week."

"When the vehicle finally launched, and the engineers at GM could see what they created, I think everyone had a sense of pride," he added. "We had changed the way of transportation. Our customers could see it, the auto blogs and vehicle performance magazines could see it, but mostly, the team could see they had created something special."

Spigno, 25, credits his education at Lawrence Tech with helping him achieve his career goals.

"Lawrence Tech really taught practical knowledge in the engineering field. Most of the professors tried to relate what we were doing in class to real-world scenarios," he recalled. "There was a large emphasis on theory, which is in line with the school slogan of 'Theory and Practice.' This helps in the real world when trying to solve complex engineering problems."

One of Spigno's most memorable experiences as a student was his work with Lawrence Tech's Element One team, which designed and built a fuel-cell-powered kart to race in the Formula Zero competition in Europe. Lawrence Tech was the first U.S. collegiate team to participate.

The deadline for submitting that vehicle's design was the day after Christmas.

"I remember working 22 hours straight from Christmas Eve until about 3 a.m. Christmas Day with the team finalizing our design project," he said.

When the team members finally finished and submitted their 300-page paper, they were so amazed at what they had accomplished that they burst into laughter. "We really couldn't believe that we had finished," Spigno said.

The Lawrence Tech team took

first place in the design competition.

Born and raised in Waterford, where he still lives, Spigno was the valedictorian of his class at St. Mary's Preparatory High School in Orchard Lake and spent some of his early years working in his father's restaurant, CJ's Upper Deck in Waterford. Spigno said he enjoyed mathematics and decided to apply it to engineering. He received a full scholarship from the University. □CWM



Ciro Spigno tested and developed an algorithm for programmable charging for the Chevrolet Volt, GM's recently launched plug-in vehicle.

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We'd love your input and want to hear from you. Visit the website, email alumni@ltu.edu, or call Mary Randazzo, manager of alumni relations, at **248.204.2309**.

Hitchcock earns big promotion at TARDEC

Jennifer Hitchcock, BSME'88, MGLM'09, was sworn into the U.S. Army's Senior Executive Service in March after her appointment as executive director of Research and Technology Integration (RTI) at the U.S. Army Research, Development and Engineering Command (RDECOM) at the Tank Automotive Research, Development and Engineering Center (TARDEC) in Warren. She is now the civilian equivalent of a brigadier (one-star) general.

Hitchcock brings more than 21 years of technical leadership and managerial experience in mobility and power and energy technologies, system engineering, acquisition, and program management. Since being named acting director of RTI in April 2010, she has been responsible for leading the research and integration of Army ground vehicle mobility, power and energy, survivability, and robotic and vehicle electronic architecture technologies.

She leads more than 500 associates in five technical areas, and is responsible for the planning, execution, funding, and selection of technology programs the Army will pursue.

Twenty years after earning her bachelor's degree in mechanical engineering, Hitchcock returned to Lawrence Tech under the Senior Service Civilian Fellowship Program that is offered in partnership with the Defense Acquisition University. She earned a master's degree in Global Leadership and Management. Now she is working on a doctorate degree in business administration at Lawrence Tech.

"We have been fortunate to have Jennifer in our graduate programs at Lawrence Tech where she consistently excels in everything she does and demonstrates collaboration and passion in building a learning community," said Associate Professor Jacqueline Stavros.

"Jennifer's strong leadership talents and capabilities are apparent in the classroom," said Associate Professor Patty Castelli. "Her upcoming research on collaboration and collective motivation should be an immense help in furthering TARDEC's mission and goals."

Two other Lawrence Tech alumni are also the equivalent of one-star generals in the Science and Professional Service at TARDEC: Chief Scientist David Gorsich, BSEE'90, and Senior Research Scientist James Overholt, BSpH'79. □EP



Jennifer Hitchcock displays the certificate that came with her big promotion with Maj. Gen. Nickolas Justice, the commanding general of the U.S. Army Research, Development and Engineering Command.

Alumnus leaves engineering behind for writing career

Brian Shell, BSEE'90, has been following a career path filled with twists and turns since he left the world of engineering behind.

Twenty years after graduating summa cum laude in electrical engineering, he returned to the Lawrence Tech campus in December to autograph copies of his book, "Everyday Single Mom - Life and Dating Inspirations."

Shell himself was raised by a single mother, and he was encouraged to pursue his idea for a book by other single mothers. He believes it's a niche that hasn't been adequately covered.

The book, available online at Amazon and Barnes and Noble, has won positive reviews from both critics and readers. "This inspirational book provides 365 days of nourishment for the on-the-go single mother," wrote Johnny Tan, a talk show host.

It also has revived interest in half a dozen ebooks that Shell had previously written. He also has authored seven or eight screenplays.

Writing an inspirational book wasn't part of his career plan when Shell graduated from

Lawrence Tech. He was named electrical engineering student of the year and served as vice president of the student chapter of the Michigan Society of Professional Engineers.

He earned a master's degree in engineering at the University of Michigan and then played a role in Hughes Aircraft's successful bid for a billion-dollar contract for 15 satellites.

But that success also led to disillusionment. "They gave me a 3 percent raise and a \$100 prize," Shell said. "I felt that if I helped create a \$1 billion contract that I should get a piece of the pie," he said.

After leaving Hughes Aircraft, Shell pursued a variety of interests. He is a drummer who has played with professional musicians and put out albums of his own music. He is an artist whose work has been displayed in art galleries. He tried acting and appeared in the movie, "Get Shorty." He has even played professional racquetball.

Shell has traveled widely and lived in Seattle, Hawaii, and Kansas City before returning to

Michigan 10 years ago to be near family and friends. He lives in Ypsilanti. "I didn't have a sense of home when I lived in L.A. or Seattle. I have nostalgic ties here," he said.

Find out more about his books and music at <http://briankshell.tatepublishing.net>. □EP



Alumnus and author Brian Shell (center) was greeted by two former teachers, Provost Maria Vaz and Associate Professor Michael Merscher, when he returned to campus in December to autograph copies of his latest book.

Canadian named young architect of the year by AIA Michigan

Cory Lavigne, BA'96, doesn't have to wait for a reunion or other special event to reconnect with fellow Lawrence Tech alumni. Seven of the eight people currently employed at the boutique design-based architectural firm where he works are graduates of the University.

Lavigne is design director at inFORM studio in Northville. He joined the firm, then known as Van Tine/Guthrie Studio of Architecture, in 2002 after six years with Gunn Levine Associates in Detroit. He was promoted to his present position in 2006. The firm also has offices in Myrtle Beach, S.C., and New York City.

The firm's philosophy, according to Lavigne, is to take a "holistic" and environmentally sustainable approach incorporating design and project materials that "sit and fit" into a community.

A good example of this approach can be seen today in the Bagley Pedestrian Bridge in Southwest Detroit's Mexicantown community. Lavigne's firm won a competition to design the \$7 million bridge – a key component of the \$230 million Ambassador/Gateway Project that has transformed the area around the Ambassador Bridge linking Detroit to Lavigne's hometown of Windsor, Ontario.

The challenge was to design a structure that would reunite and revitalize a community that was bisected in the late 1960s by the I-75 and I-96 freeways. Lavigne, along with inFORM's Michael Guthrie, BSAr'95, Ken Van Tine, BSAr'85, BA'86, and Gina Van Tine, BSAr'89, BA'94, decided on a two-span, cable-stayed bridge with a single, asymmetrical 155-foot-high tapered pylon engi-



Bill Bresler/Observer & Eccentric Newspapers

neered by a Chicago firm. It is the first bridge of its kind in Michigan.

The bridge, along with several other projects, earned Lavigne, 39, recognition as the 2010 American Institute of Architects (AIA) Michigan Young Architect of the Year and the 2010 Detroit Young Architect of the Year. He also has served as design lead, project architect, and/or design director on many other projects that have been honored by AIA.

A native of Sudbury, Ontario, Lavigne received an undergraduate degree in architectural science at Ryerson University in Toronto

and came to Lawrence Tech for his graduate degree after hearing Professor Bob Fearon speak.

"Although brief, I do reflect on the value of the theoretical and practical education I received at Lawrence Tech and, in particular, I appreciated the direct experiences in thesis development and design guidance provided by Dave Chasco and Tom Barrie," Lavigne said. "Dave was extremely supportive throughout my thesis year, providing constructive critique and guidance with an ample amount of patience." □CWM

Graduate certificate program speeds career transition

When Tracey Rettig began her classes in Lawrence Tech's Nonprofit Management and Leadership graduate certificate program last year, she thought it might be the gateway to a new career.

She was right. Within just 12 months of enrolling in the program, the 20-year veteran of marketing and corporate communications in the manufacturing sector was named the new president of the Canton Chamber of Commerce.

"My decision to transition to a new career, within a completely different sector, was a challenging one," Rettig recalled. "Lawrence Tech's Center for Nonprofit Management impressed me because it incorporated education, applied research, and outreach in



nonprofit management and social enterprise. Outreach is a major characteristic of the nonprofit sector. The combination was an important factor that led me to enroll in the program.

"Another deciding factor was the alignment within a business school, which, in my opinion, significantly adds to the credibility of the program," she added. "I was able to apply what I learned in my classes immediately."

Making connections with people in the community is an important part of Tracey Rettig's job as president of the Canton Chamber of Commerce.

While taking the fund development course, which included grant writing, she was able to line up some paid consulting work as a grant writer.

After receiving her bachelor's degree in journalism at Michigan State University, Rettig launched a successful career in marketing and corporate communications, most recently as communications manager for Energy Conversion Devices and its subsidiary, United Solar Ovonic, in Rochester Hills. Her duties there included preparing the management team for investor relations meetings, man-

aging marketing campaigns, and coordinating on-site visits by such dignitaries as President George W. Bush and Michigan Gov. Jennifer Granholm.

Rettig's long history of involvement with a number of professional and civic associations also will serve her well in her new post with the Canton Chamber, which has more than 600 members.

The Chamber's mission centers on stimulating business growth, fostering community leadership, and maintaining partnerships with Canton Township and the Canton Downtown Development Authority.

Chamber board chair Marty Heater said the search team that chose Rettig from an original field of 13 applicants was confident that she "brings to the job the right combination of strategic vision and operational know-how." □CWM

Television show features alum's home renovations

When Kimberly Lapinski, BSAr'04, bought her 1926 home in downtown Royal Oak five years ago, it was considered "uninhabitable." Today, she is well on her way to completing the renovation of a dream home, thanks to a lot of hard work plus a generous and loving dose of sweat equity from her father and fellow Lawrence Tech alumnus, Kenneth Lapinski, AEET'82.

"My Dad and I have done the majority of the work ourselves along with help and support from Mom and some gracious family members and friends. It's not finished yet, but I can finally see the light at the end of the tunnel!" she said.

More than family and friends have seen the transformation. Lapinski's home, along with two others in the Metro Detroit area, was featured on HGTV's "Bang for Your Buck" on Dec. 11, 2010. The program focuses on home renovation projects on a budget, with advice from real estate experts on achieving the greatest return on investment.

Lapinski figures her work-in-progress renovation is about 85 percent complete. "I still have little things to do on the interior, including my enclosed entryway, but the biggest projects are finished," she explained. "I've also got a lot of landscaping work to do, which I hope to start this summer."



Kimberly Lapinski (second from right) is joined by her father, Kenneth Lapinski, local real estate expert Jaye Simpson, and HGTV designer Monica Pedersen during the filming of an episode of the "Bang for Your Buck" television show at her house in Royal Oak.

In addition to her friends and family, Lapinski is particularly grateful to her boss and former teacher, Benedetto Tiseo, BSAr'78, adjunct professor in the College of Architecture and Design and president of Tiseo Architects Inc. in Livonia.

"I owe a great deal of my success in the architecture profession to Ben. He recognized my talents and offered me my first position two weeks before I graduated, which I gratefully accepted," said Lapinski, who celebrated her seventh anniversary with Tiseo Architects in April. She is the firm's senior project manager.

She can also thank Tiseo for her TV appearance.

"I had gotten an email about it from the AIA [American Institute of Architects], but I didn't think my house would ever get picked so I wasn't planning to submit it," she recalled. "Ben said, 'You have to enter your house, you did such a great job on it,' and so I agreed to. If it wasn't for his faith and encouragement, I would never have gotten the amazing opportunity of being featured on HGTV."

Tiseo even approved time off from work so that she could get the house ready for the filming. "I had just over three weeks and hadn't even started on my kitchen," Lapinski said. "Ben went above and beyond when he helped install the cabinets in my kitchen and dining room."

Lapinski credits Lawrence Tech with giving her opportunities. "The theory and practice integration provided by Lawrence

Tech is unmatched by any other university in Michigan, if not the entire nation, and I didn't realize how valuable it was until I started working in the field," she said.

□CWM

Class of 1961 joins the Jubilee Society

Lawrence Tech's Jubilee Society honors alumni of Lawrence Tech and the Detroit Institute of Technology who graduated 50 or more years ago.

The class of 1961 was inducted into this exclusive group at the annual Jubilee Society Brunch held on campus in April. The new Jubilee Society members include Roger Curtis, BSME'61, Richard Darbyshire, BSEE'61, Richard Kowalske, BSME'61, Aloysius Schneider, BSME'61, and William Schneider, BSME'61, Roger Shtogrin, BSIM'61, and John Stampor, BSME'61.

Shtogrin was this year's Jubilee Society Brunch speaker.

A moving video was shown about the life of Hurst Wulf, BSME'41, who passed away late

last year. Wulf was a lifelong supporter of Lawrence Tech, both as a teacher and as an active member of the alumni community for nearly 70 years. He was an alumni board member for many years and chair of the Jubilee Society. He was sadly missed at this year's brunch (*See story on page 34.*) ▲EP



At this year's Jubilee Society Brunch, Class of 1961 speaker Roger Shtogrin noted how many things were different back when he was a student, such as a campus newspaper that was actually printed on paper. But he pointed to a headline that demonstrates how some aspects of college life remain the same.



Members of the class of 1959 attending the Jubilee Society Brunch in April included (left to right in the back row) Thomas Allan, AIST'59, Herbert Weiss, BSME'59 (DIT), Charles Knight, BSIM'59, and James Wheeler, BSIM'59, and in the front, Harrison Levy, BSME'59, and David Dunham, BSCvE'59.



The new inductees of the Jubilee Society from the class of 1961 included (left to right) Richard Darbyshire, BSEE'61, Richard Kowalske, BSME'61, John Stampor, BSME'61, Roger Shtogrin, BSIM'61, and Roger Curtis, BSME'61.

Redesigning schools is both a vocation and avocation for architect

Tracy Sweeney, BSAr'01, BFAAI'01, MAr'06, is a senior associate at an architecture, engineering, and design firm, but she's not afraid to dirty her hands for a good cause.

Last August she joined several hundred other volunteers to help restore the Communication and Media Arts School in Detroit. Her firm, Fanning Howey, helped design two new spaces: a media production room complete with editing bays and green screens, and a College Career Counseling Center that will enable students to hear presentations from college representatives either in person or via video conference.

Sweeney describes her role in the project as primarily "elbow grease," volunteering to work several shifts doing things like painting and repairs. Also rolling up their sleeves were fellow Fanning Howey team members and Lawrence Tech alumni Misty Raatz, BSAr'95, MAr'07, and Anthony Sikora, BSAr'07, MAr'08.

"We all became involved in the project because we have been engaged in a professional capacity over the past year in the Walbridge Joint Venture for Detroit Public Schools team, which is overseeing the school system's current capital improve-



In April, Tracy Sweeney spoke at the reopening of the Monroe County Library System's Ellis Library and Reference Center, where her firm recently designed additions and renovations.

ment program," Sweeney explained.

The week-long project was featured on the Nov. 5, 2010, episode of "School Pride," NBC's new reality television show that profiles communities that are renovating their aging public schools.

"I felt that it was truly inspiring to see the community come together and support this project, committing their time and energy to something bigger than themselves," Sweeney said. "Students and their families, teachers, and neighbors accomplished something remarkable in just a week – and seeing the sense of owner-

ship and pride that they had in the project really drove home for us the importance and impact that the work that we are doing for other buildings in the district will have for Detroit kids – and the community as a whole."

Sweeney holds AIA, NCARB, and LEED AP designations in addition to her degrees in architecture and architectural illustration from Lawrence Tech.

"I chose Lawrence Tech mostly because I've always felt like it was a place where I belonged," she said. "I went to small schools growing up, and a Lawrence Tech education felt really personal. I've

always appreciated the fact that I was able to work and attend classes at the same time – the combined experience helped me to feel more grounded, and to know that the things that I was learning in the classroom had practical applications in 'the real world.'"

Sweeney has been with Fanning Howey's Novi office for 10 years, working her way up from intern to senior associate. Most recently, she has been focusing almost exclusively on building the nationwide firm's library market segment alongside Library Group Director James Mumby, AIA, BSAr'76, a firm principal. □CWM

Automotive industry legend honored

The dean's conference room in the College of Engineering has been named in memory of Lewis Veraldi, BSME'68, who led the development of the Ford Taurus. The dedication ceremony was held April 14 in the Engineering Building lobby.

Veraldi earned his Lawrence Tech degree while working at Ford Motor Company. He was also a graduate of the Henry Ford Trade School, and its alumni association funded the creation of a plaque honoring his accomplishments.

Veraldi was perhaps best known as the pioneering creator of the car team development approach that in 1986 introduced the original Ford Taurus that became America's top-selling car. The chairman of Ford at the time, Donald Peterson, said, "Mr. Veraldi helped to change the world's perception of American-made cars."

As a result of the Taurus, Ford's market share jumped



Lewis Veraldi

over 4 percent and the company returned to profitability. The Taurus received *Motor Trend's* 1986 Car of the Year award, and Veraldi was named the 1987 Man of the Year by *Automotive Industries* magazine.

After graduating from the Henry Ford Trade School, Veraldi joined Ford in 1949 as a draftsman and then advanced to many key leadership roles. In Europe, he led the development and launch of the highly successful Ford Fiesta.

He earned his degree at Lawrence Tech after taking evening classes for 18 years as he simultaneously juggled the demands of work and home, where he was the father of six children.

Veraldi was vice president of product and manufacturing engi-

neering at Ford when ill health forced his retirement in 1989 at age 59. He died in 1990.

Lawrence Tech was founded in 1932 in a building owned by Ford Motor Company near its famous production plant in Highland Park, so it had a special relationship with the Henry Ford Trade School, which was created by Henry Ford. Many early Lawrence Tech students were graduates of the Henry Ford Trade School.

"We share a mutual champion in Henry Ford, who was key to establishing both organizations," said Lawrence Tech Provost Maria Vaz. "Our steadfast commitment to the theory-and-practice approach to education advocated by Mr. Ford continues to distinguish the Lawrence Tech educational experiences of today."

□BJA



Lawrence Tech alumnus Gerald Delay, BSME'52, Charles Forbes, and Tony Pariero were classmates of Lewis Veraldi at the Henry Ford Trade School. Forbes offered remembrances of Veraldi.

Tringali firm designs dream home for family with severe medical challenges

Dominick Tringali, BSAr'83, BA'84, has handled a number of challenging assignments in his career as an architect, but perhaps none as challenging – or as rewarding – as the one he did for a special family in Kentucky last fall.

Bloomfield Hills-based Dominick Tringali Architects Inc. was one of two architectural firms chosen by Elite Homes Inc. to design a home for the Lampe fam-

ily of Fairdale, Ky. The project was featured on “Extreme Makeover: Home Edition,” ABC’s Emmy award-winning television program.

“The entire project was extremely rewarding and an incredible experience to be a part of,” Tringali said. “As an architect, building a 6,000-square-foot house in five days with over 1,000 people on the job site was fulfilling, especially to see a home come to fruition so quickly when it



Dominick Tringali takes part in the construction of a new home in Kentucky featured on the ABC television program, “Extreme Makeover: Home Edition.”

LEGENDS committee helps screen student projects

During the 2010–11 academic year, grants totaling \$11,000 were awarded to 14 student projects in the College of Engineering. The funding was made possible by the Kern Family Foundation grant, and the proposals were screened by the LEGENDS Awards and Recognition Committee.

Student teams presented their funding request presentations in December, February, and April.

James Ryan, BSArE'66, chairs the committee. Other judges are Michael Zulinski, BSIM'74, who is also chair of the Legends, Steven Gadzinski, BSEE'76, and John Siragusa, BSME'94.

Judging student proposals are members of the Legends (left to right) Steven Gadzinski, John Siragusa, and Michael Zulinski.



The alumni must become familiar with a wide range of research topics. For instance, in the fall the two biggest grants were for ligament tissue engineering and a platform for a dynamically stabilized semi-autonomous biped robot. The two biggest grants awarded in April were for a hydroelectric test stand and controllable pneumatic suspension.

Dr. Thomas Palmer, BSCh'74, got involved in one of the projects, an iontophoresis glove system, by serving as a mentor to electrical and computer engineering student Brian Podzervinski. □EP

sometimes can take a few years.”

Homeowners Jeff and Shelley Lampe, along with their six children, were faced with mounting financial difficulties due to a number of severe medical challenges, and their existing home posed serious health risks. Water pooled under the house after rainstorms, the floor was rotting, the foundation was unstable, and the electrical system was outdated.

The entire family was whisked away for a vacation while the “Extreme Makeover” team went to work in October. The Lamps returned a week later to find a dream house, and they were greeted by crowds of well-wishers from the community and beyond.

“Not only did we end up designing the house over the weekend with our design team, but we also had to build in such a quick timeframe,” he recalled. “And it was an emotional invest-

ment because of the family that was involved. Their story was truly heartbreaking, but it was wonderful to see them rewarded with a beautiful home.”

Tringali credits his extensive experience as head of his own design firm – plus his education at Lawrence Tech – for helping to make the “Extreme Makeover” assignment a success.

“Lawrence Tech provided practical and solid goals, which helped ensure that a very common-sense-oriented project such as this came to fruition,” he said. “I remember pulling some all-nighters as a student, and that prepped me for a grueling all-weekend design charrette as well as finishing up the construction drawings and putting the whole project together.”

He recalled that his professors were business oriented and stressed the importance of the work ethic. Design Studio helped him learn sketching and understand the whole design process.

“This really was helpful when planning out and understanding the tremendous deadlines for the ‘Extreme Makeover,’” he said.

Founded in 1996, Dominick Tringali Architects quickly established a reputation for high-end homes in the Metro Detroit area. Today, the 15-member firm has expanded its scope to include commercial design and its geographic base to include the rest of the Midwest, the Southeast, the Pacific Northwest, and Canada.

The firm’s achievements have been recognized in national publications, including *Better Homes and Gardens*, *The Wall Street Journal*, and “Leading Residential Architects,” a book which features the work of one leading architecture firm from each of the 50 states. □CWM

Alumni Notes

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 fall/winter issue. Use the form on page 31 to share news about you!

1960-1979

William L. Denham III, BSEE'67, is director of strategic marketing and battery product marketing for O2Micro, an international company that designs, develops, and markets power management and e-commerce components and systems for the communications, computer, consumer, industrial, and automotive markets. He previously served as a design engineer for NASA.



Dennis R. O'Connell, BSIM'70, is the executive director of the Arizona State Boxing Commission.

Dennis and his wife, Pat, moved from Michigan to Arizona in 2003, two years after he retired from his job as general attorney and senior trial attorney for Michigan Consolidated Gas Co. He joined the Boxing Commission in 2009 after a stint as an administrative law judge with the Arizona Department of Transportation. He is a 1994 Alumni Achievement Award winner, past president of the Alumni Association, and former trustee of the University.



E. Timothy Pawl, BSME'73, was awarded the "Distinguished Service Award" by the Cadillac & LaSalle Club at its

Grand National Car Show and National Convention in Kansas City, KS, in July 2010. Tim was honored for his role as past president and curator of the

Cadillac-LaSalle Museum & Research Center and as chairman of the Cadillac Centennial celebration in Detroit in 2002. He is a former director and secretary of the Lawrence Tech Alumni Association.

John J. Tagle, BSAr'73, president of John Tagle Architects Inc., was appointed 2011 board chairman of the Troy Chamber of Commerce. John's 38 years of experience encompasses architectural design, master planning, project management, and construction expertise, specializing in churches and faith-based nonprofit organizations.



Gary A. Kecskes, BSAr'77, BAr'78, MAr'01, has been appointed dean of community outreach at Housatonic

Community College in Bridgeport, CT. In this role he will oversee the college's professional development, continuing education, corporate training, and extended learning programs. He will also manage the public relations and news bureau. Earlier in his career he served as an administrator in Lawrence Tech's College of Architecture and Design and later led professional development programs at the University.

William J. Blessing Jr., BSAr'78, LEED AP, was named a principal at Ratcliff, an architectural firm based in Emeryville, CA. Bill has been with Ratcliff for 29 years. He is co-director of the firm's academic practice and the principal in charge of the new Physical Science and Engineering Center of Foothill College in Los Altos Hills, CA.

1980-1989

Vijay V. Vasantgadkar, BAr'80, MAr'10, has been recognized by *Cambridge Who's Who* for Windsor, Ontario, for demonstrating dedication, leadership, and excellence in design and architecture. Vijay is responsible for designing apartment buildings, high-rises, strip malls, medical offices, and residential and industrial buildings. He has received numerous awards from the Windsor Construction Association.

Steven L. Mullen, BSCh'81, recently started a job as a part-time chemistry professor at Parkland College in Champaign, IL, fulfilling a long-time desire to teach chemistry at the college level. He was previously a mass spectrometrist at the University of Illinois for 21 years. In 2010 Steven became a certified University of Illinois Extension master gardener.

Eric N. Kuehn, BSEE '86, MBA'95, chief engineer of the 2011 Ford F-150, was profiled in an article in *Motor Trend's Truck Trend magazine*. In the article, the Dearborn native says: "What I enjoy most about working at Ford is the longstanding company heritage and what we mean in terms of our products and services. That's especially true of the F-150." Eric lives in Northville with his wife, Teri, and two children.

Kirk T. Steudle, BSCE'87, PE, director of the Michigan Department of Transportation, was elected vice president of the American Association of State Highway and Transportation Officials. Steudle administers MDOT's multi-modal transportation programs, including nearly 10,000 miles of state trunkline and 4,400 state highway bridges. He was an Alumni Achievement Award winner in 2008.

Diane M. Creasy, BSBA'88, was named director of marketing for Marie Selby Botanical Gardens in Sarasota, FL. Diane was previously director of marketing for Alcoa and TRW and head of sponsorship marketing with Ford Motor Co./Visteon car racing venues. She has worked in England, France, India, and Mexico.

Aydin H. Erhan, BSAr'88, BAr'91, AIA, owner of AE Studio Architecture in Melbourne, FL, was featured in a "Business Spotlight" article on *FloridaToday.com*. Aydin has 27 years of experience in the architecture industry and is vice president of the Space Coast Chapter of the American Institute of Architects.

1990-1999

Robert P. Alden, BSAr'89, AIA, LEED AP, is the director of facilities management for the Technical College System of Georgia, where he is personally responsible for 26 colleges spread over 110 campus locations around the state. Before assuming this position in 2009, he had practiced architecture in Atlanta for nearly 20 years.

Ferde C. Sanders, BSME'90, is the aftermarket manager for Brembo North America. He joined the company in 2007 as part of the Hayes Lemmerz brake division acquisition. In an interview with the trade publication *Aftermarket News*, he talked about the company's new corporate headquarters and technical center in Plymouth and its commitment to the North American market.

Wayne Sieloff, BSAr'90, BAr'92, MAr'09, AIA, director of planning, design, and construction for the Wayne County Airport Authority, has earned the distinction of Accredited Airport Executive. Wayne, a registered architect, administers the capital improvement programs at Detroit Metropolitan Wayne County and Willow Run airports.



David L. Johnson, BSBA'92, director of revenue management and protection for DTE Energy, was appointed to the

board of directors of the Accounting Aid Society, which provides free volunteer income tax assistance to low- to middle-income households in Michigan. At DTE Energy, David is responsible for managing all credit and collection activities as well as the utility's energy assistance programs.



Leona Knobloch-Nelson, BSIA'94, chair of the Interior Design Department and a tenured associate professor

at Mount Mary College, was named a "Forty Under 40" award recipient from *The Business Journal* serving greater Milwaukee. In addition to her teaching responsibilities, she is the

ALUMNI NOTES

college's adviser to the American Society of Interior Designers and the International Interior Design Association chapters. In 2004, she formed her own company, Nelson Architects LLC.

Chad M. Grinwis, BSAr'95, BAr'97, AIA, joined Hooker DeJong Architects & Engineers of Muskegon as a senior project architect. Chad had previously practiced architecture for 14 years in Southeast Michigan.

Derek Richmond, BSME'97, is the father of Adam Luke Richmond, born on Sept. 28, 2010, and weighing in at a hefty eight pounds and 14 ounces. Said the proud papa: "He's my new partner in crime, and he and I are going to fix the world together. Maybe he'll end up on Lawrence Tech's campus in the next 17 years!"



Daniel J. Dressler, BSME'99, MBA'04, joined the executive team at the Southfield office of Revstone Industries LLC as vice president of global purchasing and supplier development. He was previously manager of procurement and supplier quality development for American Axle & Manufacturing in Mexico.

2000-2010



Kevin P. Mlukowski, BSTPC'01, LEED AP, joined the American Concrete Institute (ACI), based in

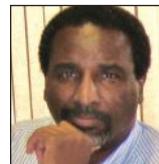
Farmington Hills, as its director of sustainability. In this newly created position, Kevin will work with ACI volunteers, committee members, representatives from other organizations, and fellow staff to increase sustainability content in ACI's programs, events, documents, products, and student activities.

Oscar L. Cobb Jr., BSME'03, PE, LEED AP, a mechanical engineer with Albert Kahn Associates in Detroit, was a 2010 winner in *Consulting-Specifying Engineer* magazine's third annual "40 Under 40" awards program. In the office, the magazine noted, Oscar is known as a problem solver who comes up with creative solutions for HVAC systems in the health-care, education, industrial, commercial, and mission-critical industries.



Michelle Lehto Way, BSME'03, and her husband run an automatic fire suppression company, Clearline Design LLC, in

Howell. She also is COO for the World Animal Awareness Society, a volunteer position. Additionally, she is a volunteer board member (research and information director) for Kinship Circle, which sent a team of disaster responders to Japan to help rescue animals.



Thomas L. Green, MSIO'04, joined the University of Michigan Taubman College of Architecture and Urban Planning

as facilities assistant. Thomas retired from General Motors in 2009 after a 30-year career, most recently working as a senior manufacturing project engineer.

Kevin N. Erickson, BSAr'05, assistant professor at the University of Illinois School of Architecture and principal of KNEstudio, earned honorable mention in the Tokyo 2010 Fashion Museum in Omotesando Street Competition. Of the 506 entries from 73 countries, he was the only finalist from the western hemisphere.

Alda G. Black, BSAr'06, has the distinction of being the first Albanian woman architect ever to attend Harvard University.

Matthew G. Brown, BSAr'06, BSCvE'06, MSCvE'07, joined RISA Technologies in 2008 where he is responsible for technical support, training, and testing of new products. He was previously a project engineer for Harley Ellis Devereaux.



Aniruddha D. Natekar, MAE'07, wrote an article on changes to the allowable emissions under the Environmental

Protection Agency standards for *Consulting-Specifying Engineer* magazine. He is with the sales application engineering department at Cummins Power Generation in Minneapolis.

Cynthia J. P. Kamish, MBA'09, an administrative assistant with the University of Michigan Department of Radiology, has been listed in *Stanford Who's Who* in recognition of her outstanding effort in the education industry.

Shelby T. Simes, BSME'09, was promoted to corporate procurement manager at Fontaine Modification Co., based in Charlotte, NC. Shelby graduated in the inaugural class of the company's management trainee program.

Sharon L. Pohly, GCertNML'10, is the new CEO of the Girl Scouts of Northern Indiana-Michiana. Sharon was previously a consultant and adjunct professor at Lawrence Tech.

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:

Office of Alumni Relations
Lawrence Technological University
21000 W. Ten Mile Road, Southfield, MI 48075-1058
Fax: 248.204.2207

In Memoriam

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

Erwind O. "Bud" Hagen, BSEE'43, of Walled Lake, Oct. 20, 2010. Mr. Hagen was an electrical engineer with General Motors for 36 years. He was survived by his wife, Jeanne, four sons, and two daughters.

Edward Skar, BSME'43, of Ludington, Jan. 6, 2011. Mr. Skar owned a television sales and repair business in Detroit until 1968 before moving his business to West Michigan where he worked until retiring in 1988. He was survived by his wife, Martha, two sons, and a daughter.

Roland H. Good, Jr., BME'44, of Laguna Woods, CA, Sept. 30, 2010. He was survived by three children.



Alexander Ross, BME'44, of Canton, Oct. 31, 2010. He was survived by three children and six grandchildren.

John W. Krygier, BME'45, of Livonia, Jan. 21, 2011. He was survived by his wife, Janet, and two children.

William W. Chirota, BSEE'48, of Dearborn, Aug. 10, 2008. A Ford Motor Co. retiree, Mr. Chirota was survived by a son and a daughter.



Albert Damiani, BSME'48, of Bloomfield Township, Jan. 14, 2011. Mr. Damiani worked for Jervis B. Webb Co. and later Fairfield

Engineering, where he earned several sales awards. He was survived by his wife, Joyce, three daughters, and two sons.

William E. Cook, BSIE'49, of Traverse City, Jan. 4, 2011. Mr. Cook was a retired engineer at the General Dynamics Tank Plant in Lima, OH. He was survived by his wife, Mary Katherine, and three daughters.

Michael B. Kosowan, BSME'49, of Allen Park, Jan. 1, 2011. Mr. Kosowan was a retired electrical engineer at Ford Motor Co. He was survived by his wife, Mary, two sons, and a daughter.

Thomas E. Noakes, BSME'49, of Beverly Hills, Jan. 1, 2011. Mr. Noakes was a retired mechanical engineer in the heating and cooling industry. He was survived by his wife, Miscyrene "Missy," a son, and a daughter.

William E. Hyne, BSArE'50, of Salem, OR, Sept. 13, 2010. His wife, Helen, passed away one day later.

William A. Garvey, BSEE'51, of Sanford, Jan. 7, 2011. Mr. Garvey worked 34 years at Detroit Edison, retiring in 1986 as a superintendent of operations. He was survived by three sons and a daughter.

Mario P. Giannetti, BSIE'51, of St. Clair Shores, June 23, 2010. Mr. Giannetti worked for General Motors for 40 years as an engineer. He was survived by his wife, Marie, three sons, and two daughters.

John J. Mance, BSME'51, of Beverly Hills, Feb. 4, 2011. He was survived by a son.



Howard L. Weber, BSME'51, of Farmington Hills, Jan. 20, 2011. Mr. Weber was a retired master mechanic with the Cadillac Motor Car

Division of General Motors. A Navy aircraft carrier pilot in the Pacific and Merchant Marine veteran of World War II, Mr. Weber was a past director of the Alumni Association. He received Lawrence Tech's Ray Award for exceptional service as a volunteer in 2006. Survivors include his son, Lawrence H. Weber, BSME'82, daughter Denise Young, BSIM'84, and grandson, Matthew L. Weber, BSAr'11. He was predeceased by his wife, Shirley, and daughter-in-law Elizabeth McCoskey Weber. He commemorated Lawrence, Denise, and Elizabeth by funding a counseling room in their honor in the A. Alfred Taubman Student Services Center.

Engineering, where he earned several sales awards. He was survived by his wife, Joyce, three daughters, and two sons.

Clayton "Doug" Bennawy, BSIE'52, of Venice, FL, Feb. 3, 2010. Mr. Bennawy was a senior engineer at the Fisher Body Division of General Motors for 32 years. He was survived by his wife, Laura, four sons, and a daughter.



Frank W. Haling, Jr., BSME'52, of Dearborn, Jan. 11, 2011. He was survived by his wife, Jane, and three sons.

Jesse W. Richards, BSME'52, of Dearborn, March 6, 2011. Mr. Richards was a retired chief body engineer at Ford Motor Co. He was survived by his wife, Ethel.

James E. Stepler, BSIM'52, of North Port, FL, Nov. 22, 2010. A Ford Motor Co. retiree, Mr. Stepler was survived by three daughters. He met his wife, Delphine, at a dance after a basketball game at Lawrence Tech. Mrs. Stepler died in 1992 after 43 years of marriage.

Walter F. Tent, BSArE'52, of North Fort Myers, FL, Nov. 14, 2010. Mr. Tent joined General Motors in 1954. Before he retired he went on to become general manager of the GM Building Division in Detroit and the GM Tech Center in Warren. He was survived by two daughters.



Harold L. Johnson, BSME'54, of Farmington Hills, Nov. 30, 2010. Mr. Johnson was a retired mechanical engineer at

Ford Motor Co. He was survived by his wife, Isabel, three sons, and a daughter.

Norbert E. "Bud" Thelen, AMT'54, of Mount Clemens, Nov. 17, 2010. Mr. Thelen retired in 1980 as an engineer at Chrysler. He was survived by a son.

Edward J. Waranowicz, BSArE'54, of Novi, Nov. 23, 2010. Mr. Waranowicz spent the majority of his professional career as an HVAC specialist with Cunningham-Limp Engineers, culminating as vice president. He was survived by son and a daughter.



Marshall Jacks Jr., BSME'56, of Washington DC, Sept. 11, 2010. Mr. Jacks was a long-term career official with the U.S. Department of Transportation, Federal Highway Administration. As chief of the Program Development Division in the Office of Highway Safety, he and several of his colleagues developed the "right turn on red" plan. In 1989, he was awarded the rank of Meritorious Executive by President George H. W. Bush. Mr. Jacks was survived by his wife, Louise, and a son.

Jaroslaw S. Krywyj, AMT'56, DIT-BBA'67, of Warren, Dec. 3, 2009. He was survived by his wife, Vera, two sons, and a daughter.

David F. Zuhlike Jr., BSME'56, of Scottsdale, AZ, Feb. 25, 2010. Mr. Zuhlike was survived by his wife, Esther, two sons, and a daughter.

Robert D. Williams, BSCvE'57, of Washington, MI, Oct. 26, 2010.

Roland V. Kelly, AMT'59, of Pensacola, FL, June 2, 2010. A retired General Motors employee, Mr. Kelly was survived by his wife, Doris, and two children.

Donald K. Gallop, AMT'60, of Plymouth, Feb. 20, 2011. He was survived by his wife, Charlotte, three daughters, and a son.

Teddy J. Hajjar, BSME'60, of Macomb, Nov. 13, 2010. Mr. Hajjar was a resident engineer for Chrysler Corp. for 28 years. He was survived by his wife, Kathryn, and two sons.

Charles R. Allmen, BSME'60, of Farmington Hills, Jan. 23, 2011. Mr. Allmen worked at Chrysler Corp. for 32 years as an engineer. He was survived by his wife, Pat, three sons, and a daughter.

Raymond Larsen, BSEE'60, of Bloomfield Township, Dec. 18, 2010. A general and refrigeration contractor, Mr. Larsen spent the last 25 years of his career designing and fitting out the interiors of stores and warehouses throughout the western United States and Mexico. He was survived by his wife, Barbara.

I N M E M O R I A M

Rev. Marvin L. Strzyzewski, AEEtT'60, BSIM'76, of Warren, Sept. 18, 2010. Mr. Strzyzewski worked at General Motors for 30 years and, in 1992, was ordained as a deacon in the Roman Catholic Church. He was survived by his wife, Gertrude "Trudy," three sons, and two daughters.

Elliot E. Hill, Sr., BSCvE'61, of Parker, CO, Jan. 31, 2002.

Arthur L. Plinski Sr., BSME'61, of Clarkston, Jan. 24, 2009. Mr. Plinski worked for Chrysler Corp. as an engineer for 40 years. He was survived by his wife, Florence, two sons, and two daughters.

Floyd M. Snyder, BSArE'61, of Southfield, May 4, 2009. Mr. Snyder was president and owner of Lani Tiki Corp. He was survived by his wife, Anne, and a daughter.

Leo Colombo, AMT'62, of Livonia, Oct. 15, 2010. He was survived by two sons.

Joseph R. Sanders, AMT'62, of Seminole, FL, May 30, 2009. He was survived by his wife, Alberta, and two children.

John A. Bak, AIST'64, of Livonia, Oct. 18, 2009. A Ford Motor Co. retiree, Mr. Bak was survived by two sons and a daughter.

Anthony G. Clor, Jr., AEEtT'64, of Highland, March 7, 2011. Mr. Clor was a retired engineering manager at Pandrol Jackson Inc. He was survived by two sons and a daughter.

Raymond D. Hocking, AEEtT'65, of Atlantic Mine, Dec. 1, 2010. Mr. Hocking was a retired senior proposal engineer at Textron Corp. in Holland, MI. He was survived by his wife, Martha, a son, and a daughter.

Roland E. Schultz, AMT'65, of Lake City, Nov. 11, 2009. A General Motors retiree, Mr. Schultz was survived by his wife, Bonnie, three sons, and a daughter.

Raymond S. Deeds, BSME'67, of Linden, March 4, 2011. Mr. Deeds had a 32-year career at Ford Motor Co., retiring in 1988 as engineering supervisor in the Climate Control Division. He was survived by his wife, Yonnie, three sons, and two daughters.

Emil J. Jaworowski, BSME'67, of Independence, KY, March 5, 2010. Mr. Jaworowski was a Ford Motor Co. retiree.

Kent B. Henze, BSIM'68, of Sterling Heights, Jan. 4, 2011. Mr. Henze was a retiree from Integrity Steel. He was survived by his wife, Carol, two daughters, and a son.

Richard J. Rymas, BSIM'68, of Northville, Jan. 26, 2011. A Ford Motor Co. retiree, Mr. Rymas was survived by his wife, Joan, a son, and a daughter.

Vincent F. Buttigieg, BSIM'69, of White Lake, Feb. 19, 2011. Mr. Buttigieg was a Purple Heart recipient in World War II. He was survived by four daughters and two sons.

David G. Pullen, BSIM'69, of Farmington Hills, Oct. 21, 2010. Mr. Pullen was a retired quality control director for Dupont. He was survived by his wife, Gloria, two sons, and two daughters.

Anthony E. Stangis, AIST'69, of Warren, Jan. 5, 2011. Mr. Stangis was survived by two sons and two daughters.

Richard R. Doebler, BSME'70, of Roseville, Sept. 14, 2010. He was survived by two daughters and a son.

Robert J. Holdreith, BSME'70, of Harrison Township, Feb. 28, 2011. Mr. Holdreith was an executive engineer at Chrysler Corp. He was survived by his wife, Catherine, two sons, and a daughter.

Thomas B. Love, AEEtT'70, of Detroit, Oct. 7, 2010. Mr. Love was a retired Detroit Edison employee.

William P. Kay, BSIM'71, of Troy. Mr. Kay was a retired senior project engineer at General Motors. He was survived by his wife, Carol, two sons, and a daughter.

Sylvester J. Marlett, BSIM'71, of Dearborn, Dec. 19, 2009.

Barry C. Crawford, AMT'72, of Frankfort, Dec. 13, 2010. Mr. Crawford spent 35 years with Production Industries Inc. In 2001, in partnership with his son, he opened Northern Chain Specialties of Kaleva. Survivors also include his parents and a daughter.

Cyril S. Klimes, BSIM'72, of Farmington Hills, July 16, 2009. He was survived by his wife, Gladys.

Michael H. Gorman, BSIM'73, of Westland, Oct. 27, 2009. Mr. Gorman served in finance with Canton Township and the City of Westland and later retired from the Archdiocese of Detroit. He was survived by his wife, Margaret, a daughter, and a son.

Peter C. Prevas, BSEE'73, of Bloomfield Township, Nov. 21, 2010. Mr. Prevas was a retired electrical engineer at General Motors. He was survived by his wife, Tina.

Richard K. Unsworth, ACMtT'73, of Royal Oak, Oct. 20, 2010. He was survived by his wife, Carol, four sons, and two daughters.

Edward J. Sova, BSME'75, BSBA'85, of Troy, Jan. 1, 2011.

Robert Q. Bannon, AIST'77, BSIM'80, of Beverly Hills, Feb. 5, 2011. Mr. Bannon was a longtime technology and safety manager for Burroughs Computers (later Unisys Corp.). He was survived by a son.

Robert K. Weingrot, BSIM'77, of Novi, Nov. 10, 2009. He was survived by his wife, Cynthia, a son, and a daughter.

Raymond E. Nicklowitz, Jr., AEEtT'79, BSBA'88, of Boyne City, Feb. 22, 2011. Survivors include his parents.

Randal C. Secondino, BSAr'79, BA'81, of Royal Oak, Nov. 1, 2010. Mr. Secondino was a principal with Victor Saroki & Associates. He was survived by his wife, Kelli, two sons, and a daughter.

Michael J. Trepkowski, BSCE'79, of Sterling Heights, Sept. 25, 2010. He was survived by his wife, MaryLou, a son, and a daughter.

Daniel Koenigbauer, BSAr'80, of Dearborn, Aug. 22, 2006.

Theodore Ragland, BSCE'82, of Detroit, Dec. 28, 2010. A Navy veteran, Mr. Ragland was survived by his wife, Isabelle, two sons, and a daughter.

Harold P. Williamson, BSME'85, of Traverse City, Sept. 18, 2010. Mr. Williamson worked for General Motors for more than 16 years and then entered the IT field as a project manager with various companies, primarily Hewlett Packard. He was survived by his wife, Leslie, a son, and a daughter.

Michael P. Pepin, BSME'89, of New Port Richey, FL, July 18, 2008. He was survived by his wife, Anne.

Raymond F. Cebalt, BSME'98, of Royal Oak, May 30, 2006.

THE LAWRENCE TECH FAMILY



Tony DeMaggio – helped create Alumni Association

Anthony F. DeMaggio, BAeE'36, BME'38, who helped found the Lawrence Tech Alumni Association in 1938, died Dec. 13, 2010, in Vista, CA. He served as recording secretary of the Association's chartering group and also served as president of the Association in 1944-45 and vice president in the late 1960s.

Mr. DeMaggio was a participant and leader of campus events for decades. He retired in 1972 as a quality engineer and general superintendent with Chrysler LLC, where his work included early research and development of plastic laminates. He received the University's Alumni Achievement Award in 1956. He also served on the adjunct faculty.

Mr. DeMaggio had also been an active student. As a member of the first class of graduates who had entered as freshmen and attended all four years, he helped lead some of the first drives to acquire library books and begin preparation for accreditation. □ BJA

M E M O R I A M

THE LAWRENCE TECH FAMILY



Hurst Wulf – he ‘knew his stuff’

Hurst E. J. Wulf, BSME'41, PE, an active and engaged alumnus for 70 years, died Nov. 18, 2010, after a brief illness.

Mr. Wulf's remarkable span of service to Lawrence Tech included two tenures on the Alumni Association board of directors separated by half a century – in 1950-52 and 2002-10.

After leading his own engineering firm for many years, Mr. Wulf continued as a consultant and manufacturers' representative until his death. His primary interest was designing complex assembly lines for automotive and other manufacturers but he had special expertise in pneumatics and hydraulics, working with state, county, and municipal highway departments on bridges that moved. Drawbridges that he provided hydraulics for include those at St. Clair and Benton Harbor.

His most famous success was repairing a costly error during construction of the Zilwaukee Bridge carrying I-75 traffic over the Saginaw River. The bridge is the second largest in Michigan behind the Mackinac Bridge and the state's most expensive highway project to its time. In 1982, miscalculations by the builder caused a massive 14 million pound section of the bridge to become unbalanced, sag, and teeter out of alignment during placement, potentially requiring a tear down of the bridge at a cost of \$100 million, and adding months or years to the project's completion.

Instead, Mr. Wulf was hired by Michigan highway officials and for a fraction of the cost developed and built a complex hydraulic lifting device with multiple contact points on specially constructed piers that gently rebalanced and lifted the 300 foot section into its proper position. The bridge remains in service today.

“It always amazed me that firms I would hire had engineers who would call me and ask how this or that was figured. And these guys were graduates of [other schools] and they didn't know how,” he said in a 2003 interview. “I'm not trying to pat myself on the back, but I got such a good education here at Lawrence Tech that I was able to do it. They didn't.”

Mr. Wulf's student memories included his fraternity hazing that required initiates to retrieve their pants from the Woodward Ave. railroad viaduct near Lawrence Tech's original campus, and having to duck waddle up and down the busy road. He laughed recalling that the next day he nearly pitched down stairs due to his exhausted legs.

He returned to serve on Lawrence Tech's adjunct faculty, teaching mathematics and mechanical engineering during the late 1940s and 1950s. His charges included world-weary former GIs who were veterans of World War II.

“I had to stress the practical but instill in them that they had some catching up to do,” Mr. Wulf recalled. Among those he taught was John DeLorean, BSIE'48, who later led GM's Pontiac and Chevrolet Divisions and eventually oversaw all North American vehicle lines before creating his own automobile company.

Always optimistic and enthusiastic, Mr. Wulf worked tirelessly to encourage alumni to remain in touch with each other and their alma mater. He wrote thousands of personal letters and made hundreds of calls to invite alumni back for class reunions or to the annual Jubilee Society brunch that since 1991 has commemorated alums who graduated 50 years or more ago. At these events, he'd be surrounded by a press of classmates and former students eager to catch up with their friend and former mentor.

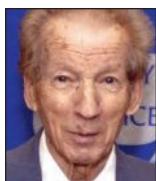
In 2002, Mr. Wulf received Lawrence Tech's Ray Award for outstanding volunteer service.

He chaired several early campus fund-raising efforts in the 1950s and recalled standing with then-President E. George Lawrence and a small group of others in 1953 as the first steel post was erected for the first building at the Southfield campus.

“My greatest satisfaction has been to see the growth of the University. Never in my wildest dreams when I started there in 1937 would I have thought that Lawrence Tech would grow to the proportions that it has, and it just pleases me so much,” Mr. Wulf said.

“Alumni should be proud of the school for its reputation in industry, and for the quality of students turned out here. Lawrence Tech students are very well thought of because they know what they're doing. They graduated because they ‘knew their stuff.’” □ BJA

DIT IN MEMORIAM



John Chanik, BSME'39, of Birmingham, Feb. 7, 2011. Mr. Chanik retired as a senior engineer from AM General and is credited

as the father of the HUMMER in use by U.S. and NATO armed forces worldwide. He received Lawrence Tech's Alumni Achievement Award in 2006 and created the endowed Chanik Scholarship for Lawrence Tech students. Mr. Chanik was survived by

his wife, Betty. The Chanik Admissions Welcome Center on campus was funded by the Chaniks and is named in their honor.

George O. Smith, BSME'43, of Lake Wales, FL, Feb. 15, 2011. Mr. Smith was survived by four daughters.

Roderick D. MacRae, BSME'44, of Detroit, Nov. 14, 2010. Mr. MacRae was survived by his wife, Gloria.

David J. Hesse, BSBA'70, of Saline, Oct. 22, 2009. He was survived by his wife, Irene, two sons, and a daughter.

Paul Tucker, Jr., BSCvE'71, PE, of Ann Arbor, Feb. 4, 2011. Mr. Tucker was the retired chairman and CEO of Tucker, Young, Jackson, Tull, Inc., a consulting engineering firm in Detroit. A veteran of military service in Vietnam, he was active in numerous engineering organizations and was named to the Order of the Engineer in 1980 by the Ann Arbor Chapter of the Michigan Society of Professional

Engineers. He was Lawrence Tech's nominee for the 2008 Distinguished Volunteer Award from the Association of Fundraising Professionals. Mr. Tucker and his wife, Evelyn, endowed a scholarship at Lawrence Tech for engineering and architecture students, and he was the 2010 recipient of the University's Alumni Achievement Award. He was survived by his wife and three children.

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

Edward Donley Society

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

Recognition is also given for a pledge of \$1,000,000 or more; to those donors who have formally notified the

University that they have included a \$5,000,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$5,000,000.

Russell Lawrence Society

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

Recognition is also given for a pledge of \$500,000 or more; to those donors who have formally notified the University that they have included a \$2,500,000 bequest to Lawrence Tech in their will; and to those who have established a planned gift to benefit the University, such as a non-term life insurance policy or a charitable remainder trust with a value of \$2,500,000.

E. George Lawrence Society

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

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

1932 Society

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

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



Winterlude 2011 guests raise their glasses to toast Lawrence Tech at the Federal Reserve building in Detroit.

GIVING SOCIETIES

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.

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.



Lawrence Tech President Lewis Walker recognizes Tom and Diane Wrenbeck at Winterlude 2011 for their gift to fund a new endowed scholarship.

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

N O R R O L L

LAWRENCE TECHNOLOGICAL UNIVERSITY 2010 DONOR HONOR ROLL

Listing within society and club levels reflects gifts made through Dec. 31, 2010. All efforts have been made to ensure the accuracy of our donor lists. Please contact the Office of University Advancement to report any errors.

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Aramark serves up generous donation as part of food services contract

Aramark, the firm that manages the University's campus dining services, has expanded its long-time support of Lawrence Tech. As part of a 10-year contract, the company underwrote more than \$500,000 in renovation and equipment costs for the new cafeteria and kitchen, made a \$100,000 gift to be used at the discretion of the president, and established five \$5,000 scholarships for students who work in the cafeteria or are otherwise affiliated with the program.

"This was a remarkably generous gesture," said Linda Height, vice president, finance and administration. "We are extremely pleased with our partnership."

Aramark is a leader in professional services, providing food services, facilities management, and uniform and career apparel to health care institutions, universities, school districts, stadiums, and businesses around the world.

Along with the totally renovated Lawrence Tech cafeteria, now called Real Food on Campus (RFoC), Aramark also oversees all vending machines, a satellite fresh food express market, Einstein Bros. Bagels, and the Papa John's pizza delivery service on campus. The company also employs more than 40 Lawrence Tech students. □



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Morris Family honors son's memory with \$1 million trust to fund scholarship

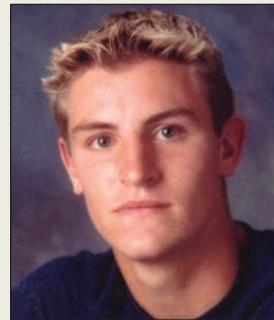
Michael and Linda Morris have created a \$1 million charitable lead trust to extend and expand the impact of the Justin D. "J" Morris Memorial Endowed Scholarship, named for their youngest son who passed away at the age of 23.

"We felt making this money available to young people who want to go to college, but lacked the funds to do so, was a fitting way to honor our son," said Michael Morris, chairman and CEO of American Electric Power in Columbus, Ohio.

He and his wife, Linda, a former early education teacher, made their initial contribution to Lawrence Tech in 2005, which was applied to a scholarship that first was established in 2003 by Justin's aunt, long-time faculty member Pamela Lowry, and her husband, Jack.

Originally named the Focus: HOPE Scholarship, it has been renamed the Justin D. "J" Morris Memorial Endowed Scholarship, and it targets students who come from Focus: HOPE to Lawrence Tech for the manufacturing engineering associate degree program.

An avid outdoorsmen and athlete, Justin loved soccer, track and field, baseball, golf, and skiing. He had attended Northville High School, the University of Colorado, and Eastern Michigan University before his untimely death. □



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Gift honoring Frank Klaetke changed from bequest to donation

In 2008, George Klaetke, a Wayne State University graduate (BSCE'55, MSCE'62), established the Frank W. Klaetke Memorial Scholarship in memory of his brother, a former Lawrence Tech student. Last fall he changed his \$150,000 bequest into an outright donation so the scholarship could start helping Lawrence Tech students as quickly as possible.

With his sister, Irma, a retired nurse, and Frank's widow, Vicky Keating, looking on, Klaetke presented a check to President Lewis Walker in October.

A native of Germany and a 1948 graduate of Cass Technical High School, Frank Klaetke attended Lawrence Tech until he was drafted into the U.S. Army, where he served in a combat engineer battalion in the Korean War. After his two years of service, Klaetke did not return to college, but he used the training he received at Lawrence Tech, his work experience, and his savvy to become a successful architect.

The Klaetke scholarship is intended to be merit-based, although financial need may be considered. It gives preference to candidates who are part-time students, College of Architecture and Design enrollees, and City of Detroit residents. □



Irma Klaetke, Vicky Keating, George Klaetke and President Lewis Walker.

DO N O R H O N O R R O L L

Fitzpatrick comes to aid of Blue Devil Motorsports

Mike Fitzpatrick, BSME'73, and his wife, Barbara, have established a \$1 million bequest to the University, but it was a relatively modest "gift in kind" that recently earned students' gratitude.

Blue Devil Motorsports, which participates in Formula SAE, Formula Hybrid, SAE Baja, and SAE Aero Design competitions, needed stands to display racing vehicles at the North American International Auto Show.

The Office of University Advancement turned to Fitzpatrick, the owner of Fitzpatrick Manufacturing Co., which does CNC machining for the automotive, defense, and energy-exploration industries and employs more than 90 people. He called one of his vendors and had aluminum square tubing and plate stock in three sizes shipped directly to Lawrence Tech. He picked up the nearly \$2,000 tab.

Students fabricated the stands and assembled the display. During the Auto Show, they were on hand at Cobo Hall to proudly show off their vehicles and answer visitors' questions.

"We get so much from our education that lasts us a lifetime. It's good to give back," said Fitzpatrick, a winner of the 2011 Alumni Achievement Award. □



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Balog funds architecture scholarships with \$25,000 gift at Winterlude

Gary Balog, BSAr'75, FAIA, announced at this year's Winterlude his intention to donate \$25,000 to fund both an endowed and an expendable scholarship in his name.

"I know how hard it is to concentrate on the work when you're worried about coming up with the money for tuition," said Balog, whose daughter and son-in-law are also architects. "I want to help take away some of that stress, and I'm grateful that I have the ability to do it."

He is senior managing partner of Balog, Steines, Hendricks, and Manchester Architects in Youngstown, Ohio, which focuses on civic, institutional, academic, and cultural projects with a special interest in working with nonprofit organizations.

Giving back to the profession is important to Balog, who has served in various capacities with the American Institute of Architects on both the regional and state level. His work has been honored with more than 20 awards for design excellence. In 2008 he was elected to the prestigious AIA College of Fellows.

"Lawrence Tech with its emphasis on theory and practice and a faculty of practicing professionals was especially valuable to me," Balog said. □



Gary Balog

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Zollweg gives back after high-flying career

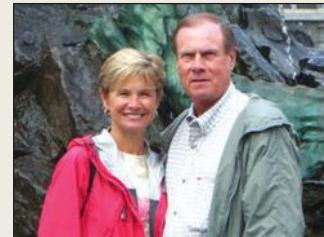
After a stint in the U.S. Air Force and an exemplary career as a commercial pilot, Denny Zollweg, BSIM'66, is funding a two-year Blue Devil Scholarship at Lawrence Tech with a preference for recipients who have completed military service.

"I realize how hard it is to pay for education," he said. "Growing up in the Redford section of Detroit, I knew my parents weren't going to be able to afford to send me away to school. Because I could live at home and go to Lawrence Tech, I was able to make it work."

Zollweg credits Lawrence Tech with giving him the foundation

to succeed. After earning a degree in industrial management, he earned an MBA from Michigan State University and then served as a captain in the Air Force, flying missions worldwide in C-141s and C-130s, including a 15-month tour in Vietnam.

He joined Delta Airlines in 1973 and flew domestic and international routes. He retired in 2002. He was able to leverage Delta Airlines' 50 percent matching gift policy to fund the scholarship. □



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Winterlude held at the Federal Reserve

Lawrence Tech's major donors got a glimpse of some other "big bucks" when Winterlude was held March 10 at the Detroit branch of the Federal Reserve Bank of Chicago. Winterlude has become known for its distinctive venues. An exclusive annual event, it is open to all donors who have contributed \$10,000 or more during their lifetime, or who made a gift of \$1,000 or more in the past year.

On any given day, over \$4,000,000,000 in cash flows through the building. Guests were able to look into the vault on a tour of the facility, and each received "Fed Shreds," a plastic baggie filled with shredded U.S. currency.

Lawrence Tech President Lewis Walker and Steven Brown, vice president of university advancement, recognized new members of the University's giving societies.

The evening wrapped up with a presentation by Allison Andre, a senior majoring in biomedical engineering, who shared her story of how a donor-funded scholarship has helped her succeed at Lawrence Tech. □



Student Allison Andre and Frank Marcum at Winterlude

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Scholarship will assist veterans and transferees



Godfrey Ross

Godfrey Ross, BSCh'73, has established a scholarship in his name that will give preference to students who have completed active duty in the U.S. armed forces or transferred from another institution.

He remembers his own return to civilian life after serving in the military and is aware of the financial challenges that can beset a student who transfers from a public university or community college to a private one.

“With the tough economic times

and the rising cost of education, I just thought it was a good time to do this,” Ross said. “I am very grateful to Lawrence Tech for a rewarding and productive college experience.”

Ross credits Lawrence Tech for providing the foundation for his successful, 32-year career with the Detroit Water and Sewerage Department. He was a supervisor in the Analytical Laboratory when he retired in 2005.

A long-time contributor to Lawrence Tech, he decided to step up his commitment with an initial contribution of \$7,000 to fund a series of expendable scholarships until he meets his pledge of \$20,000 to fully fund an endowed scholarship. □

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Former scholarship recipient wants to help others

For Craig Rasche, BSBA'79, his full-tuition scholarship at Lawrence Tech was a "total game changer." Now he wants to give something back.

Rasche is a global alliance manager with Dell Corporation and manages the business relationships with large system integrator partners. "There is no question that the degree I earned at Lawrence Tech changed my life and is greatly responsible for the success I've had," he said. "I am pleased to be able to 'pay forward' my gratitude for a Lawrence Tech education."

He and his wife have established the Craig and Lori Rasche Endowed Scholarship in Management with a pledge of \$20,000. Preference will be given to students employed at least 20 hours a week.

Rasche was working in a Ford Motor Co. assembly plant and taking courses at Oakland Community College when the scholarship offer came from Lawrence Tech. "My wife and I were newly married, living in this little apartment, and trying to figure out how to make ends meet while I finished my education. The scholarship was a blessing," he said.

While the scholarship made things easier, Rasche still worked a part-time job at Ford and managed an apartment complex while going to school full-time. □



Craig Rasche

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Marburger establishes facilities fund with interdisciplinary focus

President Emeritus Richard Marburger has established the Mary E. Marburger Memorial Interdisciplinary Facilities Fund with a donation of \$100,000 in honor of his late wife who passed away in March 2010.

One of the objectives of the fund is to emphasize the University's institutional strengths, in particular, "the collaborative, interdisciplinary programs and facilities, which contribute so importantly to our academic excellence," said Marburger, who continues to volunteer in the College of Engineering as an academic advisor and tutor.

The College of Engineering has extensive interdisciplinary programs in cooperation with the other three colleges on campus. "It's this cooperative spirit that Mary and I found so heartening, and we wanted to do something that would reemphasize it," Marburger said.

Marburger has served for more than 45 years at Lawrence Tech. He was dean of the College of Arts and Sciences from 1970 to 1972, and was president from 1977 to 1993. His career included stints with General Motors Research Laboratories and the U.S. Air Force.

The Marburgers' two children, Dennis and Kathryn, both graduated from Lawrence Tech. "I hope others also will contribute in Mary's memory," Marburger said. □



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THE BACK PAGE

Taubman commits \$11 million to new academic complex

Prominent philanthropist A. Alfred Taubman has thrown his financial support behind another transformative construction project at Lawrence Tech that will greatly improve the University's engineering facilities, while also providing greater connectivity with architecture and life sciences academic programs.

Taubman has committed \$11 million for construction of a new building that will be the centerpiece of the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex.

The likely location for the new structure is the east corner of the quadrangle where it will be integrated with the Engineering Building and connect to the Science Building.

Construction is expected to begin in about 24 months and cost \$55 million for a structure of approximately 100,000 square feet.

Taubman joined Lawrence Tech President Lewis Walker in announcing the plans for the new building on May 25 in the University's A. Alfred Taubman Student Services Center – another building that transformed the Lawrence Tech campus thanks to a leadership gift from Taubman.

Taubman's new gift is structured to provide a catalyst for the fund-raising efforts needed to complete the private financing of the construction project:

- \$1 million will cover planning and development efforts associated with the construction of the building.

- \$10 million will go to the A. Alfred Taubman Challenge Grant that must be matched by \$20 million in new contributions within three years for the construction of the building.

"Mr. Taubman knows a thing or two about bringing ambitious construction projects to a successful conclusion," Walker said, referring to Taubman's pioneering role in the development of shopping malls around the world. "In addition to his

generous gift, he is providing leadership and assistance to ensure that the fund raising stays on track and meets our goals in a timely manner."

The ambitious goal is to strengthen the College of Engineering's pre-eminence by providing cutting-edge facilities and research resources that will attract gifted faculty and top students. The complex will also enhance the University's strength in forging interdisciplinary partnerships by adding resources in both architecture and the life sciences.

Taubman was an architectural student at Lawrence Tech in the 1940s, and is among the University's largest contributors. He provided the lead gift for the student services center that opened in 2006, and his total support would surpass \$15 million with the successful completion of the challenge grant.

"Lawrence Tech made a big difference in my life, as it has for generations of young people working to build successful careers and fulfilling lives. I am immensely proud of my Lawrence Tech affiliation," Taubman said. "I am delighted to provide support for the exciting new Engineering, Architecture, and Life Sciences Complex. I join Dr. Walker in encouraging all friends of Lawrence Tech to add their contributions to make sure this amazing new facility becomes a reality."

The combined gift is one of the largest to date for Lawrence Tech's "Proud Heritage, Bold Future" capital campaign, which

has raised \$65 million of the overall goal of \$75 million to \$100 million by 2014. □EP



Lawrence Tech President Lewis Walker (left) accepts a check from A. Alfred Taubman representing an \$11 million commitment for the construction of a new building that will be part of the A. Alfred Taubman Engineering, Architecture, and Life Sciences Complex.