

Lawrence Tech[®]

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Winter 2011/12



Making old traditions new: Homecoming energizes campus life and school spirit

Inaugural class inducted into Athletic Hall of Fame | New life sciences research facilities dedicated
President Walker's legacy to Lawrence Tech | Higher Learning Commission gives thumbs up
Alumni News & Notes | Report to Investors, and more!

Lawrence Tech

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE

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On the cover: Blue, the mascot of the Lawrence Tech Blue Devils athletic teams, hitches a ride with the 2011 Baja SAE off-road racing vehicle to make a dramatic entrance before the start of the Homecoming soccer game on the new soccer pitch at the Point. (Photo by Gary Duncan)

Correction: On page 16 of the Spring/Summer 2011 issue, in the article on Janelle O'Hara being appointed as the spokesperson for Young & Free Michigan, Michigan First Credit Union was misidentified as First Michigan. We apologize for any confusion with the bank by that name.

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Making old traditions new

Lawrence Tech fans found plenty to cheer about at the Homecoming soccer game against the University of Michigan Dearborn.

• • •
Homecoming capitalizes on rejuvenated campus life and school spirit
• • •



Associate Professor Scott Schneider proudly displayed his "true blue" spirit at the Homecoming soccer game.

Lawrence Technological University brought back the Homecoming tradition in grand style with a full slate of activities during the week leading up to Homecoming Day on Saturday, Oct. 1.

While the weather wasn't very accommodating for the concert on Friday night and alumni activities on Saturday morning, the sky turned Blue Devil blue for the Athletic Hall of Fame induction ceremony and the soccer game in the afternoon.

This was the first Homecoming at Lawrence Tech since the 1990s, although alumni have been invited to numerous other events on campus in the intervening years.



Blue started a new tradition at Lawrence Tech when he sank his trident into the turf of the new soccer pitch.

The impetus for reviving an old tradition was Lawrence Tech's acceptance by the National Association of Intercollegiate Athletics. This fall was the first season for varsity teams in men's soccer, women's volleyball, and men's bowling. In addition to attending athletic events, students, alumni, faculty, and staff found many more Homecoming activities to enjoy.

"With the return of varsity athletics and other exciting developments at the University, we thought this was a good time to reinstate a tradition that will bring both alumni and the families of students to the campus," Dean of Students Kevin Finn said.

A cold, rainy, windy Friday night didn't deter several hundred Lawrence Tech students and friends from having a hot time at the Homecoming concert on Sept. 30. The audience quickly forgot the elements when

Vanilla Ice and 3OH!3 filled the air with their driving music. Local recording artist Lewis Hensley warmed up the crowd as the opening act, and WKQI 95.5 Friday night DJ Ace was entertaining as the emcee.

Volunteers from the Sigma Phi Epsilon fraternity and SPAM, the student group that organizes events on campus, helped with hospitality and crowd control. Members of the SAE Aero Design team sold Blue Devil horns, and the student engagement staff sold Homecoming t-shirts, which had been introduced with much fanfare earlier in the week.

Following the concert, students gathered around a bonfire near Ridler Field House for some much-appreciated heat, more music, pulled pork, and pizza

from Shield's Pizza – the winner of the students' "Best Pizza in Town" contest.

... several hundred students, family members, alumni, faculty, and staff were on hand as eight inaugural members were inducted into Lawrence Tech's new Athletic Hall of Fame.

1 | An enthusiastic crowd cheered on the band 3OH!3 during the Homecoming concert. Vanilla Ice was the headliner and he helped heat up a cold night for several hundred Lawrence Tech students and friends.



2 | Chris Barnes, Melissa Grunow, Mary Beth Grunow, and Nick Mueldener braved the rain and cold to see Vanilla Ice perform at the Homecoming concert.



3 | Freshman forward Justin Ritchey started another Lawrence Tech attack against the University of Michigan Dearborn during the Homecoming soccer game.



4 | "To the labs, Igor" was the humorous theme for the dedication ceremony of the life sciences labs in the College of Arts and Sciences. While cutting the ribbon for the new walk-in cold room, Assistant Professor Matthew Cole got some help from "Frankenstein," who bore a slight resemblance to Dean Glen LeRoy of the College of Architecture and Design.



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Also as part of this year's Homecoming celebration:

- Sixty students participated in a service project cleaning up the path to the Point athletic fields.
- Students defeated the faculty and staff in a tug-of-war contest.
- Four teams competed in the first Quidditch tournament.
- A comedy show was organized by SPAM.
- The varsity volleyball team played Lourdes College.
- The varsity hockey team played Grand Valley State University.
- Alumni enjoyed a Homecoming Day tailgate party.
- The College of Arts and Sciences dedicated new labs.
- Lawrence Tech's first disc golf champion was crowned.
- Past soccer players returned for an alumni soccer game.

On Saturday afternoon several hundred students, family members, alumni, faculty, and staff were on hand as eight inaugural members were inducted into Lawrence Tech's new Athletic Hall of Fame. (See story on page 4.)

After architecture student Korin Blubaugh sang the national anthem, LTU's mascot, Blue, made a dramatic entrance on the back of a Baja SAE vehicle and then planted his trident into the

turf to signal the start of the men's varsity soccer game against the University of Michigan Dearborn.

The Lawrence Tech fans had plenty to cheer about in the game, which was tied at halftime, 1-1, but the Blue Devils ended on the short end of the 2-1 score.

Immediately after the game, the spectators witnessed an historic event of a more personal nature. The soccer team's goalie Mikey Knoff, who had to sit out the game because of a concussion, walked across the field with his teammates and went into the stands to propose to classmate Dee Hewitt.

Knoff and Hewitt are both seniors studying architecture. They have been dating since 2008 when they met in University Housing as freshmen. While a marriage proposal may not have been totally unexpected, Knoff said his fiancée was caught off guard by the Homecoming setting.

"It was an exciting day, and I thought it would be fun to do it in front of all of her friends. My family was there, too," Knoff said. □EP



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5 | Members of the Sigma Phi Epsilon fraternity came out to cheer fraternity brother George Grzywacz, a goalie on the hockey team. They showed the crowd behind them a mirror image of their nickname, SigEps.

6 | Pulled pork and pizza were on the menu at the Homecoming bonfire following the concert, but warmth was the main attraction.

7 | A team of faculty and staff (foreground) took on the students in the Homecoming Week tug-of-war challenge. The students won two out of three contests, leaving some faculty members covered in mud.

8 | Gena Briolat watched Abby Schroeder set up a teammate during the volleyball team's Homecoming game against Lourdes College.

9 | The soccer game came to a perfect conclusion for senior Dee Hewitt, who accepted a marriage proposal from classmate Mikey Knoff.

10 | Assistant Provost Lisa Kujawa and Dean of Students Kevin Finn (at right in second row) joined enthusiastic fans in cheering on the women's volleyball team.



10



Inaugural class inducted into Athletic Hall of Fame

Locker room celebrations were a common occurrence for Lawrence Tech's 1950-51 basketball team, which won 20 games.

HONORING *past achievements*

On the eve of a new era in athletics, Lawrence Technological University paused to celebrate past achievements on the gridiron and the hard court with the induction of the inaugural class into its Athletic Hall of Fame at Homecoming in October.

The University honored the 1938 football team, the 1950-51 basketball team, and three former athletic directors – Donald Ridler, Lewis Moon, and Alan McLaughlin.

“Even as we look forward to our growing sports program, we can also take great pride in the grand achievements of the past,” Lawrence Tech President Lewis Walker said.

The University will create a permanent shrine in Ridler Field House to display plaques with photos of the inductees and their achievements. This display will be mounted prior to the start of the 2012-13 basketball season.

The highlight of the induction ceremony was the reunion of five players from the 1950-51 basketball team, one of the eight teams invited to play in the National Invitational Tournament (NIT) at Madison Square Garden. The NIT was considered the leading national tournament of that era. With 2,500 students, Lawrence Tech was the smallest university, in terms of enrollment, to play in the NIT to that time.

That year the Blue Devils amassed a 20-2 record while averaging 74 points a game during the regular season against such opponents as Colorado State, Penn State, City College of New York, and DePaul. They lost in the NIT to the University of Dayton.

Among the five players attending the induction ceremony was forward Blaine Denning, the leading scorer for the 1950-51 season with 349 points who was known for a deadly hook shot that he could make with either hand. He left Lawrence



Lewis Moon



Don Ridler



Lawrence Tech's new men's basketball coach Tom Kempf escorted Ray Mawhorter of the 1950-51 basketball team during the Athletic Hall of Fame induction ceremony.

"Even as we look forward to our growing sports program, we can also take great pride in the grand achievements of the past."

— President Lewis Walker

Tech after his senior season in 1952 to join the Harlem Globetrotters. He then was drafted by the Baltimore Bullets (now the Washington Wizards). He went on to a successful business career in Detroit.

Because of his cumulative achievements during his basketball career at Lawrence Tech, Denning's number, 14, will be retired and his jersey hung from the field house rafters at the start of the basketball season next fall.

Forward Ralph Okie was an all-city center at Detroit's St. Thomas High School before joining the Lawrence Tech squad. He later served in the Army during the Korean Conflict and then had a 39-year career with the Michigan Consolidated Gas Company (MichCon).

Guard Herman Pett, BSIM'53, played basketball in the Army before joining Lawrence Tech's Blue Devils. He was captain of the 1952–53 team, which he led in scoring with 330 points. After earning his degree in industrial management, he worked for 34 years on the design staff at the General Motors Tech Center.

Guard Sam Smith was a high school standout in both basketball and swimming. He served as Lawrence Tech's freshman basketball coach during the 1952–53 season. In 1991, he retired as director of labor and industrial relations for Dana Corp. at its headquarters in Toledo.

Ray Mawhorter, BSBA'51, was a guard on the basketball team who also pitched for the baseball team and later played in the Cincinnati Reds farm system. He later served as Lawrence Tech's head basketball coach for two seasons.

The 1938 football team was inducted into the Athletic Hall of Fame for winning the Blue Devils' second conference title in four seasons. Lawrence Tech fielded football teams from 1933 until the outset of World War II.

None of the several surviving members of the 1938 team were able to attend the induction ceremony, although team captain Louis Jelsch will receive his award during a special presentation at his home in the near future.

Hall of Fame inductee Alan McLaughlin retired as director of student activities in 2010 after a 21-year career at the University. Under his leadership, Ridler Field House blossomed as a hub of student activity, and the recreation program at



The inaugural members of Lawrence Tech's Athletic Hall of Fame in attendance at the Oct. 1 induction ceremony were (L-R) Ralph Okie, Blaine Denning, Sam Smith, Alan McLaughlin, Ray Mawhorter, and Herman Pett.

Lawrence Tech grew both in the number of participants and the number of sports offered. Today, intramurals and recreation are among the most popular programs on campus. He also helped position Lawrence Tech for the return of varsity sports.

McLaughlin played several seasons in the Philadelphia Phillies minor league system. He was assistant baseball coach at Eastern Michigan University, where he earned both a bachelor's and master's degree. He taught and coached at public and private high schools and served as senior physical director of the Northwestern YMCA of Detroit.

Two athletic directors were inducted posthumously.

Donald Ridler was a Michigan State University football standout and player/coach of Michigan's first professional football franchise before coming to Lawrence Tech in 1938. As athletic director for 25 years, he coached varsity football, baseball, basketball, swimming, golf, tennis, cross country, and track.

Besides the 1951 NIT berth, Ridler's basketball teams represented Michigan at the National Association of Intercollegiate Basketball tournaments in 1942, 1943, 1947, 1948, 1949, 1952, and 1954. Tens of thousands of fans filled such venues as Hackett Field House, Olympia Stadium, and the State Fairgrounds Coliseum, and huge dances followed many of the games.

In 1981, Ridler was elected to the Michigan Sports Hall of Fame, and in 1987 Lawrence Tech's new field house was named in his honor.

Lewis Moon served in many capacities during 26 years with Lawrence Tech, including coach, athletic director, director of high school relations, and director of counseling and student activities. He oversaw 50 intramural programs at Lawrence Tech that involved nearly 40 percent of the students.

Moon was an all-state high school player in football and basketball who was selected to play professional baseball in the St. Louis Cardinals' farm system. Instead he served in the Army during World War II. Shrapnel broke his back in four places, paralyzing him below the waist. He endured a grueling recuperation, and amazingly, went on to enjoy a stellar basketball career at Albion College.

Jeff Moon attended the ceremony to receive the posthumous award on behalf of his late father.

The first inductees to the Athletic Hall of Fame were selected by a committee consisting of Dean of Students Kevin Finn; Scott Trudeau, director of recreation, athletics, and wellness; Dino Hernandez, assistant vice president of advancement; and Bruce Annett, executive director of marketing and public affairs. □BJA



Alan McLaughlin, former director of student activities, showed off his Hall of Fame blazer to President Lewis Walker and Scott Trudeau.

Learning in the lab

New life sciences research facilities enable students

The completion of a major expansion and upgrade of the laboratory facilities in the College of Arts and Sciences has opened up new research opportunities for the faculty. It has also created new hands-on experiences that will better prepare Lawrence Tech undergraduate students for medical school, graduate school, and careers in the healthcare field.

That's because working side by side with a professor engaged in basic life sciences research is one of the best ways to gain a deeper knowledge of the scientific principles that guide medical care, according to Dean Hsiao-Ping Moore of the College of Arts and Sciences.

"I firmly believe that the best way to teach students cognitive skills, analytical skills, creativity, and critical thinking is through research," Moore said. "In the sciences there is no substitute."

Since Moore arrived from the University of California at Berkeley in 2005 to become dean, she has aggressively pursued her goal of bringing research into the undergraduate curriculum. The Science Building wasn't equipped with research facilities, and the transformation began with the conversion of a men's room and a classroom into research labs. More renovations followed as Lawrence Tech secured funds from a variety of sources.

The addition of more than a dozen chemistry and biology hoods in life sciences labs required the installation of two large air handling units on the roof of the Science Building. President Lewis Walker, Associate Dean Glen Bauer and Dean Hsiao-Ping Moore of the College of Arts and Sciences, and University Architect Joseph Veryser witness the installation.



President Lewis Walker and Dean Hsiao-Ping Moore of the College of Arts and Sciences cut the first of five ribbons to officially open the new life sciences laboratories on Homecoming Day.

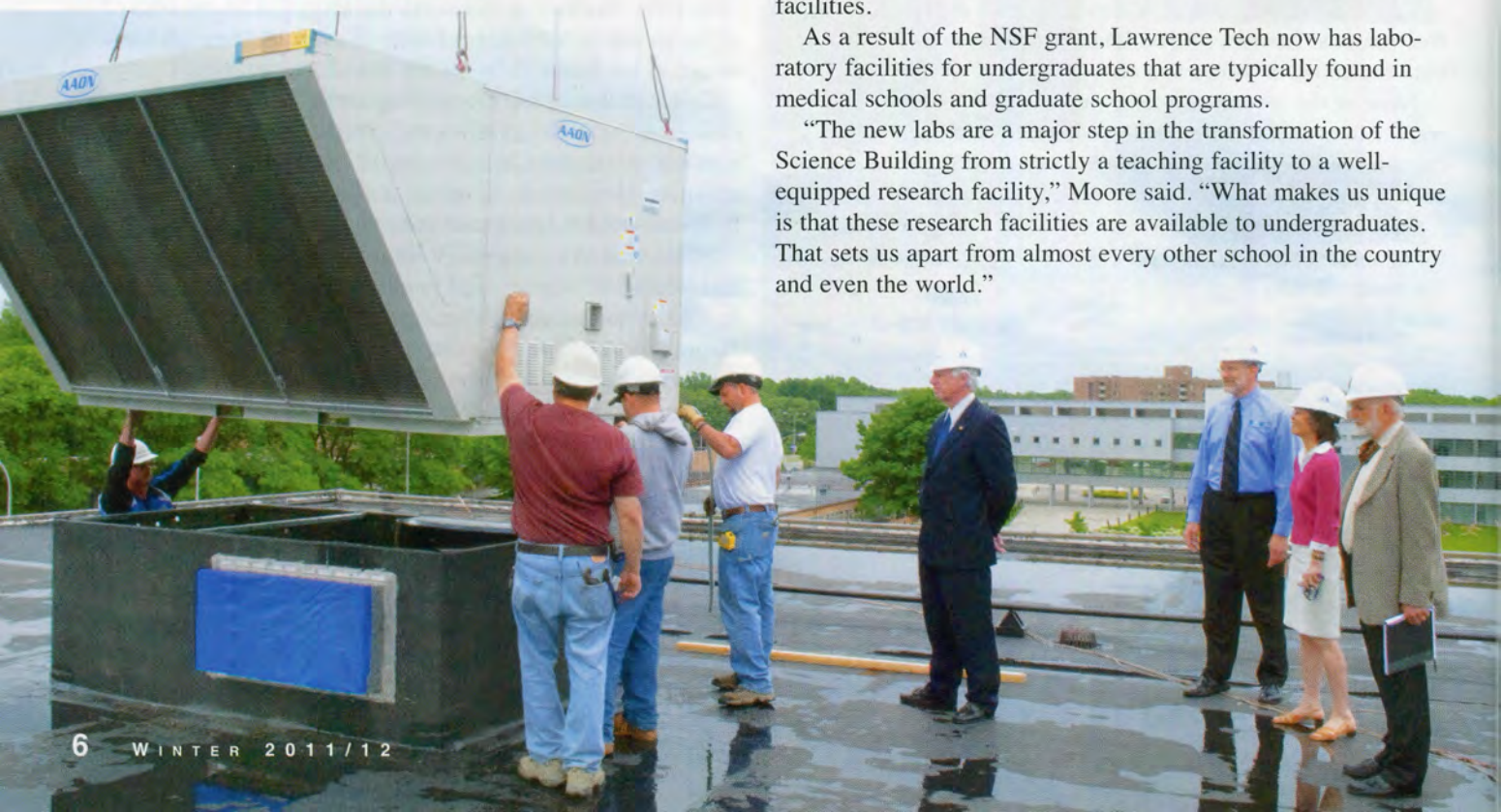
A major breakthrough was achieved in 2010 when the National Sciences Foundation awarded a \$1,342,276 grant for a next-generation life sciences research facility to include a molecular and cell biology research lab, a chemical biology lab, an instrumentation room, a walk-in cold room, and a room for preparing testing materials and equipment.

Lawrence Tech's grant was three to four times larger than the typical NSF grant. More than 1,500 universities and colleges filed letters of intent for a round of funding under the American Recovery and Reinvestment Act, and less than 10 percent were successful.

On Oct. 1, the College of Arts and Sciences celebrated Homecoming with not just one ribbon-cutting ceremony but five to mark the completion of the new and upgraded research facilities.

As a result of the NSF grant, Lawrence Tech now has laboratory facilities for undergraduates that are typically found in medical schools and graduate school programs.

"The new labs are a major step in the transformation of the Science Building from strictly a teaching facility to a well-equipped research facility," Moore said. "What makes us unique is that these research facilities are available to undergraduates. That sets us apart from almost every other school in the country and even the world."



to learn through research projects

The College of Arts and Sciences now requires all natural science majors to complete senior projects that involve research. It's a three-semester process that starts with an introductory course.

That wasn't possible before the renovation because there was a single chemistry exhaust hood available for research, and chemistry students need their own dedicated exhaust hood for senior projects. Now there are 10 chemistry exhaust hoods, in addition to three sterile biology hoods.

The NSF grant also included funding to help Lawrence Tech provide lab time to high school students through several partnerships:

- High school students in the Detroit Area Pre-College Engineering Program (DAPCEP) use the labs for Saturday sessions.
- Professor Anthony Sky, chair of the Department of Natural Sciences, uses the labs for the Extreme Science Saturday enrichment programs that he has developed for high school students.
- Students from Ferndale's innovative University High School will use the labs as part of the college prep curriculum developed in consultation with Lawrence Tech faculty.
- In the future, Moore hopes to include high school students in the noncredit Quest projects that enable Lawrence Tech students to enhance their understanding of an academic topic.

Moore believes that outreach to high school students should be an important part of the University's mission. In recent decades enrollment has declined in the United States in the so-called STEM disciplines of science, technology, engineering, and mathematics. She believes Lawrence Tech has an obligation to help reverse that trend.

"America's future competitiveness depends on producing more graduates in the STEM fields," Moore said.

When it comes to research, Moore leads by example

Dean of Arts and Sciences Hsiao-Ping Moore has continued the active research agenda that she pursued for 20 years at the University of California at Berkeley, and the grant from the National Science Foundation is supporting her ongoing research on the connection between obesity and diabetes.

Research projects by four other faculty members (*see the following stories*) were also part of the successful grant application.

In collaboration with Professor James Granneman of Wayne State University's School of Medicine, Moore is looking into the link between obesity and metabolic diseases such as type II diabetes.



Dean Hsiao-Ping Moore demonstrates to psychology student Yi Zheng how testing quantum dots in ultraviolet light can be applied to cell biology research.

"The goal is to understand why obesity contributes to diabetes. We know that when there is too much fat around in a cell, it somehow compromises the cellular processes involved in insulin signaling," Moore said.

The specific goal of the research supported by the NSF grant is to understand a possible cause of lipotoxicity, the creation of high fat metabolite levels in a cell. In a healthy cell, fatty acids produced by the cell are somehow channeled to a site where oxidation, or conversion of the fat into energy, occurs. Scientists don't understand how the channeling occurs, and Moore and Granneman want to find out what is happening that disrupts the process in obesity.

"We think something is broken in the channeling, and we suspect that the protein PLIN5 is involved. We want to know how PLIN5 works, especially in a disease state," Moore said.

Moore uses the new media preparation lab (S308) and the new walk-in cold room to support the research she does in the cell biology and microscopy lab (S306).

In order to visualize the PLIN5 proteins inside the cell, Moore uses quantum dots, a nanotechnology tool that she helped develop at Berkeley in collaboration with researchers at the University of California at Los Angeles. That research project developed biological applications for the quantum dot nanocrystals that originally had been used to test inert materials.

Senior project tests new experiment for other students

During the fall semester Lawrence Tech student Natalia Porcek worked on developing an experiment that could be used in an organic chemistry laboratory course in the spring semester. As a senior majoring in molecular and cell biology, she hopes her senior project will be a stepping stone to graduate school.

Porcek's senior project advisor is Assistant Professor Shannon Timmons, who has been conducting research on new carbohydrate-based drugs that could be used to treat cancer and bacterial infections. She is investigating novel synthetic routes to facilitate the development and testing of new carbohydrate-based drugs.

Timmons' research involves the preparation of novel drug candidates that contain carbohydrate groups, using a combination of both synthetic organic chemistry and enzymology. Like any worthwhile research project, it's a process that involves a lot of trial and error.

Timmons has also become interested in developing new experiments for organic laboratory courses that use interesting, biologically relevant compounds to teach fundamental laboratory techniques, and Porcek's senior project could advance the cause.

Porcek's experiment would teach students how to separate two enantiomers—molecules with the same sequence of bonded atoms that are non-superimposable mirror images of each other—of the popular anticoagulant drug warfarin.

"There are currently no biologically relevant experiments of this type published in the scientific literature," Timmons said. "We think that using a currently prescribed drug to illustrate this scientific principle will be more exciting for students than conducting experiments with unfamiliar chemicals."

These experiments can be very frustrating, especially for undergraduate students. "As in all research, most things do not work," Porcek said. "However with enough patience and logically thinking through the problems that are presented, you can attain your goal, which in our case is the formation of crystals."

The plan is to test the results of Porcek's senior project in Timmons' organic chemistry laboratory course in the spring semester and then publish the results in the *Journal of Chemical Education*.

Porcek wants to continue her education in graduate school, and she believes her senior project is a big step toward that goal. "Working on research in which one has his or her own project and being able to control where one wants to go with the research, which is what my senior project allows me to do, is the best preparation one can get for graduate school," she said.



Molecular and cell biology major Natalia Porcek (right) and Assistant Professor Shannon Timmons examine the crystal shape and color of warfarin, a popular anticoagulant drug, in one of the newly renovated life sciences laboratories.

Physiology research looks for possible cures for heart arrhythmia

Assistant Professor Jeffery Morrissette has been conducting research on how tuna can maintain a steady heart function as they swim through a wide range of temperatures. He employs a multidisciplinary approach utilizing molecular, biochemical, and cellular experiments to examine the physiological specializations in the heart cells that enable these fish to maintain a consistent cardiac rhythm.

The goal is to characterize the unique properties of tuna heart cells that contribute to their anti-arrhythmic behavior.



Chemical biology major Garrett Hubbs loads a gel for an electrophoresis experiment while Assistant Professor Jeffery Morrissette and Dearborn High School student Hussein Abdallah monitor his progress.

"By understanding the molecular specializations of these cells, we can further our understanding of the causes of cardiac arrhythmias and potentially determine cellular targets for the treatment of arrhythmias in humans," Morrissette said.

The new lab facilities include a walk-in cold room, which allows Morrissette to perform temperature-sensitive preparations and other experiments that weren't possible or practical before. "Just the ability to have multiple students as well as professors working simultaneously in the molecular and cell biology lab is a wonderful improvement," Morrissette said. "LTU students now have modern research facilities that were purposely designed with their interests in mind and to meet their specific needs."

The new laboratory spaces will provide additional opportunities for undergraduates to participate in Morrissette's research and to conduct their own investigations as part of a senior project or a Quest project.

"These new laboratories will provide research experiences for undergraduates that are generally not available until students move on to graduate school," Morrissette said.

Chemical biology major Garrett Hubbs has been performing a number of research tasks for Morrissette, including Bradford assays on the cardiac tissue of bluefin tuna. He is confident the experience he has gained will help him get into medical school or a graduate program in biology or chemistry.

"It's no secret that med schools prefer applicants with some sort of research experience," Hubbs said. "The one-on-one research environment furthers my understanding of the research."

He also believes he will be well prepared for the next stage of his education.

"The chemical and biological techniques that I use in the lab are very similar to those used in graduate schools throughout the country," Hubbs said. "I am also learning how to approach scientific problems in the real world."

Basic research could improve understanding of addiction

Assistant Professor Matthew Cole, the director of Lawrence Tech's psychology bachelor's degree program, has been investigating the neuropsychological mechanisms of drug addiction. Recently he has been conducting research with Sprague-Dawley rats on the role played by anxiety in alcohol addiction.

The new state-of-the-art fume hoods in S325 allow Cole and



Lab assistant Brendan Peltier and Assistant Professor Matthew Cole prepare to inject a Sprague-Dawley rat in the new life sciences lab where they conduct research.

his student researchers to expose rats to a consistent volume of ethanol vapor over a 12-48 hour period in order to induce states of acute and chronic ethanol dependence that would be the equivalent of binge drinking and alcoholism in humans.

Cole's research involves training the lab rats to respond in a certain way when they are treated with Pentylentetrazole (PTZ), a drug that elicits anxiety. Cole hypothesizes that if the lab rats respond the same way to withdrawal from a large dose of ethanol – similar to a hangover after binge drinking – as they do to the anxiety drug, then having a hangover involves anxiety.

Tests on the rats of the subjective effects during withdrawal from acute and chronic ethanol exposure will be conducted at various intervals in the new lab facilities in order to characterize the time course of anxiety expression during ethanol withdrawal.

"My hypothesis is that rats will display the anxiety response 12 hours after exposure to a large dose of ethanol. If true, this observation will suggest that a hangover from binge drinking may be comprised of an emotional state of anxiety," Cole said. "This finding would make important contributions to our understanding of the science of binge drinking and alcoholism."

Cole said his student lab assistants are gaining important experience working with an *in vivo* research methodology involving the administration of volatile agents under a fume hood.

Psychology major Brendan Peltier is one of six students helping Cole in the lab. In addition to injecting the rats and tracking their weight, Brendan is learning the basic principles of psychopharmacology, such as pharmacodynamics and pharmacokinetics. Cleaning rat cages may not be glamorous, but he believes laboratory experience will help him in the competition for graduate school funding.

"This research is giving me a deeper understanding of certain facets of psychology," Peltier said. "I'm excited about the implications it could have in relation to humans."

Tomato research could answer questions about causes of infections

Assistant Professor Julie Zwiesler-Vollick's current research is focused on understanding the genetic regulation of bacterial pathogenesis, the mechanisms that bacteria use to cause infections. Using tomatoes, she is investigating how two seemingly unrelated genetic regulatory pathways in bacteria may be connected.

Previous research has demonstrated that when many bacterial pathogens encounter the host cell, it is essential that the type III protein secretion system be activated. However, the trigger for this process is unknown. Zwiesler-Vollick is investigating the possible role that a post-replication DNA repair mechanism may play in the regulation of virulence.

"These studies will help us to better understand how pathogens cause disease," she said.

The renovated lab facilities provide a great deal more dedicated research space, so that researchers will no longer have to share space and unavoidably get in each other's way.

The renovation has also created a more logical grouping of equipment. Previously, the equipment Zwiesler-Vollick used on a regular basis was in several locations. She frequently ran from one end of the hall to the other to transfer samples on ice from the -80° C freezer to the biological safety cabinet. Now the freezer and biological safety cabinet are steps away from each other.

The environmental growth chambers are now in the laboratory where she conducts research. These chambers allow her to grow a variety of plants and perform infection assays while controlling the temperature and levels of light and humidity.

Zwiesler-Vollick's research has become easier with the addition of the walk-in cold room. This large refrigerated space provides more room for the storage of plates as well as a location for stratifying germinating seedlings for synchronization.

She also appreciates the larger autoclave, which is used to sterilize growth media and glassware, in addition to research waste prior to disposal.

Thanks to the renovations, students have their own work spaces and no longer have to deconstruct equipment and pack it away after every experiment. They also will be better prepared for the next step in their careers.

"The acquisition of cutting-edge facilities like the cold room and autoclave will prepare students for work with such equipment in industry or graduate school," Zwiesler-Vollick said.

□EP



Molecular and cell biology senior Samantha Hartner and Assistant Professor Julie Zwiesler-Vollick check to insure that the bacterial growth medium is thoroughly dissolved and the cap on the bottle is loosened prior to steam sterilization in the autoclave.

**As President
Lewis N. Walker
prepares to step
down, his legacy is a
university poised
for a strong
future**

Advancing toward pre-eminence



February 2009: Open and accessible to students, President Walker was interviewed by student Phil Lucas for an assignment in a course that was part of the leadership curriculum that Walker has championed.

Lewis N. Walker's 18 years of leadership at Lawrence Technological University have been filled with major accomplishments. When he steps down from the presidency next June, Walker will be able to do so with the satisfaction that the University is better positioned than ever to face the challenges of today and tomorrow.

Walker advanced to the presidency in 2006 after 12 years serving as provost, arguably the next most essential and influential position in higher education management. As the chief academic officer, the provost sets academic direction and goals, oversees the University's most expensive cost centers, and makes sure that students are well served by the classes, labs, teaching methodologies, and other opportunities presented in their major that ultimately determine success in their careers.

As provost and, for three years, concurrently the executive vice president, Walker already had numerous initiatives under way. As he himself noted in his inaugural address as president, "We're progressing on many fronts – in our agility to develop

May 2009: Some 5,000 new graduates have crossed the stage at Commencement during Lewis Walker's presidency. The number of states and nations represented in the student body continued to increase.

and offer new programs that meet the needs of the changing economy of our state and nation, and the success of our graduates and their organizations competing in the global economy. Lawrence Tech is building new synergies and meeting new needs with programs now in development – such as automotive design (which I think can truly be one of the best in the world), sustainable architecture, emerging energy technologies, innovative materials, life sciences, and computer applications."

Putting students first

Walker came to Lawrence Tech wanting to build upon its strong customer orientation, and he sought to emphasize a team approach to problem solving.

"Every one of us, faculty and staff alike, have a stake in serving students and meeting their needs," he told the *Lawrence Tech Magazine* in 1995. "Educating through example, showing how teamwork succeeds in this setting, will be among the most important thing students see."

His success in that area is perhaps best exemplified by Lawrence Tech's "You Serving U" initiative launched in 2004. The effort has been acclaimed as a national best practice, and over 25 colleges and universities have sent teams to see the concept in action. Over 15 presentations about it have been given before the College Board, ACT, and other leading national education associations.



July 2006: President Walker was the Detroit Economic Club's presiding officer for a presentation by Steve Ballmer, CEO of Microsoft Corp. and a former Lawrence Tech student.

“Developing a true one-stop-shop for student services is something Dr. Walker kept pushing,” said Lisa Kujawa, assistant provost for enrollment management. “Many schools have aspired to do it, but I think we are still really the only one that has successfully done it across all services, from admissions to financial, registration to cashier, career services, housing, even tutoring and the computer helpdesk. The fact that we had an architect in with us throughout our staff planning (Art Smith, BSAr’78, BAR’81) to help maximize the initiative in an all-new facility was highly unusual. Over 75 staff people who formerly thought they could do only one thing were cross-trained to do many. The result has been the creation of a true culture of service, a high-tech/high-touch environment with maximum convenience to students.”

Leaders in the making

Transitioning from provost to president, Walker was also well along in planning a distinctive leadership development program for all Lawrence Tech undergraduates. What made the program unusual was that it would include all students regardless of their major and extend over all four years of instruction.

“Although many colleges and universities talk about leadership, we were surprised to find only three that delivered the full breadth and depth that involved all undergraduates in all years,” Walker observed. “Those programs were at the three military academies. I wanted Lawrence Tech to be the fourth. Our aim has been to imbue in our graduates the ability to have confidence in themselves – not arrogance – but confidence to step up to situations in work and in life and achieve success.”

Today, hundreds of students each semester are literally “leaders in the making,” participating in dozens of curricular and co-curricular activities to earn leadership transcripts through attendance in topical seminars, service activities that aid community charities, student mentoring, and much more.

Even as the undergraduate curricula were supercharged with leadership development enhancements, the growth of degree and fast-track certificate programs from the associate through the doctoral level has also been phenomenal. The number has jumped from 60 programs six years ago to over 100 today. They are in emerging technologies and fields with growing demand. Some are the first in Michigan and among the first in the nation. Walker’s goal has been that all of them earn the type of praise that *The Detroit News* heaped on Lawrence Tech’s new robotics engineering degree: “education innovation at its best.”

“I’ve been very pleased with how our deans and faculty have

been very entrepreneurial in developing new classes and programs that meet the changing needs of society and the professions we serve,” Walker said.

In 2005, Walker took that entrepreneurial approach beyond Lawrence Tech’s campus. He led the launch of a unique partnership between Lawrence Tech and the Ferndale Public Schools with the establishment of University High School (UHS). A rigorous public high school, UHS received a first place Magna award at the 2010 National School Board Association conference for its innovative curriculum developed by Provost Maria Vaz, high graduation rate, and college support staff. A remarkable 85 percent of its graduates have matriculated to college.

“Lewis’ vision for the potential to educate the next generation is a lasting legacy for our students,” said Ferndale Schools Superintendent Gary Meier. “The opportunities that urban high school students have had to experience college on the Lawrence Tech campus, and the unique preparation they’ve had are directly correlated to the college successes they’ve demonstrated. Our students’ success is thanks in large part to his enthusiastic support of the initiative and our ongoing partnership.”

Recovery started here

In 2007, just a year into Walker’s presidency, the U.S. economy nosedived and the University was faced with one of the most serious fiscal threats since the Great Depression. By 2008, tens of thousands of blue collar and white collar jobs were lost in Michigan’s automotive and related manufacturing industries. Layoffs accelerated through the summer and fall, and over 1,000 Lawrence Tech students, including a high percentage of graduate students, either lost their jobs or their employee tuition-reimbursement benefits. Other displaced workers needed educational retooling and career services to aid their return to the workplace.



November 2009: President Walker went to China for the opening of the Symbolic City Exhibition that Lawrence Tech faculty helped organize at the Shanghai University for Engineering Science (SUES). Joining Walker at a display from LTU’s transportation design program are (from left) Professor Paul Wang, Dean of Architecture and Design Glen LeRoy, and Professor Steven Rost.

In announcing the “Recovery Starts Here” initiative at a well-attended news conference on Dec. 3, 2008, Walker said, “The recovery starts here and it must start with us. We invite other institutions throughout Michigan to join us. Together, we will succeed.”

Only two weeks before, Walker had convened a task force that ultimately involved over 35 members of the faculty and administration representing the Offices of the Provost, Admissions, University Advancement, Dean of Students, Career Services, Housing, Registrar, and Financial Aid. Their charge was to determine the scope and overall elements of a program, the number of grants, and the dollar amount that Lawrence Tech could offer, develop a name for the initiative, and a strategy to market it to targeted audiences.

Walker appointed Kujawa to lead the effort. She recalled what he wanted to do: “Dr. Walker’s hope was to offer timely assistance to displaced workers and, for those enrolling, to be able to accommodate them within the University’s academic calendar without delay.”

The ambitious effort was remarkably successful. Over 650 displaced workers or their dependents received “Recovery Grants” that provided 50 percent of tuition through the completion of a degree program. Over 30 new fast-track certificate programs were introduced in such fields as sustainability, alternative energy, defense, and life sciences. They were geared to strengthen and diversify Michigan’s economy and prepare students for the changing global market. And over a dozen career networking receptions and workshops – not limited to Lawrence Tech alumni and students – matched thousands of displaced workers holding college degrees with innovative companies that had employment opportunities.

USA Today and the *Chronicle of Higher Education* were among the more than 50 media outlets that reported the initiative’s success.

One week after Lawrence Tech’s program was launched, Michigan Governor Jennifer Granholm joined Walker at a campus lectern, having selected Lawrence Tech as the best setting for her own news conference to announce what state and local governments were doing for displaced workers. She brought with her all the highest-ranking elected leaders from the Metro Detroit area. She had requested that her event be held at Lawrence Tech because “they led the way in showing how,

October 2010:
President Walker presented former Lawrence Tech student A. Alfred Taubman, HD’85, with a framed Detroit Free Press article about the graduate course he was teaching that fall in the College of Architecture and Design.



December 2008: Soon after launching Lawrence Tech’s “Recovery Starts Here” initiative to help Michigan’s displaced workers, President Walker hosted then-Gov. Jennifer Granholm and other regional government leaders who fielded questions from the media about how Michigan and local governments would provide additional resources to workers who had lost their jobs.

working together, we can help Michigan’s displaced workers.”

A dozen other Michigan colleges and universities subsequently stepped forward with their own plans to aid current and prospective students. State relief and educational agencies also enacted and launched plans. But as Walker noted, “Lawrence Tech accelerated the process and was first with a comprehensive, multi-faceted initiative to serve prospective and current students, alumni, as well as Michigan’s general population of displaced workers. In this way we are being true to Lawrence Tech’s long heritage as a *private university serving public purposes*.”

Dealing with adversity

As successful as the “Recovery Starts Here” plan has been, Lawrence Tech’s student enrollment has yet to rebound to pre-recession levels, and has remained in the range of 4,000 to 4,300 the past few years. To sustain the University’s short- and long-term fiscal stability, Walker worked closely with his leadership team, faculty, and staff to eliminate nonessential spending and defer certain purchases. For three years there was an across-the-board salary and general hiring freeze. The University’s contribution to the TIAA-CREF pension plan was suspended, and the free employee health care plan was eliminated.

The belt-tightening worked, and this year Lawrence Tech achieved a surplus. The Board of Trustees approved merit and cost of living raises for faculty and staff, made possible by the success of the University’s careful attention to expenses.

“Like many Michigan businesses, organizations, and institutions, we had to adjust budgets and make difficult and unpopular choices,” Walker said. “I am grateful that Lawrence Tech’s faculty and staff came together in meeting these challenges and for their continued devotion to students and commitment to academic excellence. I promised that we would try to take the burden off the backs of our employees as quickly as we could, and by working together, we have.”



May 2010: Completion of the new life sciences research laboratories (see related article on Page 6) was among the many facility improvements during Walker's presidency. He and Provost Maria Vaz cut a ribbon to celebrate the completion of one phase of the multiyear project.

Funding the future

Lawrence Tech's fund raising during the Walker presidency has been the most successful in the history of the University. Just a few months into his presidency, Walker joined with his predecessor, Charles M. Chambers, to dedicate the environmentally friendly redeveloped campus quadrangle that in turn had been preceded by the opening of the innovative A. Alfred Taubman Student Services Center. The campaign to build that building and the University Technology and Learning Center, redevelop the quad, and add scholarship support had raised over \$46 million.

Almost immediately, Walker reconvened the Master Planning Committee to assess the University's next objectives, the development of a state-of-the-art Engineering, Life Sciences, and Architecture Complex, as well as more scholarship and endowment funding.

The "Proud Heritage, Bold Future" campaign is still in its "quiet phase," but over \$66 million in cash and bequests has been raised to date of a projected goal of \$75 to \$100 million. Retail pioneer and former student A. Alfred Taubman again stepped forward with an \$11 million gift and challenge grant.

"The support and generosity of our alumni like Al, as well as gifts from other individual donors, corporations, and foundations, is a tremendous vote of confidence in what the University does and how it does it," Walker said. "I'll always be tremendously appreciative."

(For information about President Walker's upcoming visits with alumni nationwide, go to www.lawrencetech.net.)



August 2001: Then-Provost Walker proudly showed off the laptop computers that were being provided to every undergraduate student. Lawrence Tech was the first university in Michigan with such a program, and 10 years later it remains unique in Michigan and rare nationally by supplying a high-end computer customized with the software programs students need for their courses.



November 2008: President Walker appeared on WWJ-TV's Michigan Matters program with host Carol Cain to discuss issues facing higher education.



September 2010: President Walker and Henry Ford Trade School alumnus Chuck Forbes unveiled a plaque honoring graduate and former trustee, the late Lewis Veraldi, BSME'68. Veraldi was also a Trade School graduate, and the University has named the College of Engineering conference room in his memory.

A computer lab 'to go'

A decade ago, Walker initiated another effort that has become an important part of what distinguishes a Lawrence Tech education. Each fall every undergraduate student receives a laptop or tablet computer loaded with customized software. In recent years, the retail value of the package approaches \$15,000. Some 2,600 computers are distributed each year.

Walker pointed out that while some other colleges and universities provide personal computers loaded with word-processing software, Lawrence Tech's program remains unique in Michigan and rare nationally because it supplies a custom-configured, high-end computer with all the advanced, industry-recommended software that students need for their courses.

"The convenience of having their own computer all the time instead of being limited to using a computer in a lab, and being able to seamlessly interact with faculty and fellow students who have the same software, does so much to enhance learning and provides students with skills that match industry expectations," Walker said. "The program has really taken hold here and it is an important point of distinction."

Gaining a global view

Another area of pride has been the growth of Lawrence Tech's enrollment of international students. As provost and president, Walker has signed some 40 agreements with leading universities across China, India, the Middle East, and Europe to build

partnerships and exchange programs. This academic year students attend Lawrence Tech from 43 countries and 28 states.

“We launched these programs, and Lawrence Tech really was ‘early on the ground’ in some of these countries, because of the global economy in which our graduates are expected to work,” Walker said. “It is important for our U.S. students to experience other cultures just as it is important for students from other countries to experience the American way. We create far more friends than adversaries when people from other nations study here and personally observe the benefits of liberty and self-actualization.”

New traditions

Walker took special pride in this fall’s return of Homecoming, Lawrence Tech’s first in nearly a generation. He welcomed back members of the 1950–51 basketball team who returned to be inducted into the University’s new Athletic Hall of Fame 60 years after playing in the National Invitational Tournament (*see story on page 4*). Admitted this year to the National Association of Intercollegiate Athletics, Lawrence Tech is developing a full slate of varsity men’s and women’s sports after a 50-year hiatus.

“More active participation in intercollegiate athletics, along with an increase in student residential opportunities on campus, will help us increase a sense of school spirit among our students and alumni,” Walker observed. “It will help our students develop more camaraderie, more of a sense of belonging, and more community. It is the right thing to do.”

Maria Vaz, who has served as provost during Walker’s presidency, said that “Dr. Walker’s most important and lasting legacy will be his vision for the University and the actions that we have taken under his leadership to become pre-eminent. There has been an extraordinary change in the culture of Lawrence Tech. It has become more inclusive and welcoming, and actions like the laptop program, the leadership program, the innovative new academic programs, the restarting of athletics and entering the NAIA, all are moving the University forward.”

Kujawa added: “He has really embraced his role and has provided a great sense of community on the campus for our faculty, staff, and students. One of his greatest assets has been his



November 2006: President Walker introduced U.S. Sen. Carl Levin (D-MI) to students in Lawrence Tech’s then-new Center for Innovative Materials Research. They were accompanied by Nabil Grace (left), the center’s director who has since become dean of the College of Engineering.



October 2006: President Walker joined members of the Sigma Pi fraternity for the dedication of Lawrence Tech’s Spirit Rock. The fraternity had spearheaded the effort to bring a new focal point for student spirit to the campus.

August 2007: Extending Lawrence Tech’s global outreach, during a special convocation, Provost Vaz and President Walker presented a doctor of humanities honoris causa to Pope Shenouda III, the world leader of the Coptic Orthodox Church in Egypt.



willingness to try new ideas. He has always wanted those who report to him to not be afraid to fail, but it was in the development of ideas and the engagement of people that success was created.”

Always looking ahead

As he prepares to step down as president in June, Walker doesn’t focus on such assessments; his mind is on what is ahead for Lawrence Tech and not what is past.

“Look, we’ve got some great momentum under way and there are many initiatives in the works throughout the campus. My goal over the next six months is to bring as many to fruition as we can,” Walker said.

“The vision I asked our community to adopt in 2007 was that Lawrence Tech would strive *to be a pre-eminent private university producing leaders with an entrepreneurial spirit and global view.*

“Lawrence Tech’s aspirations are focused on excellence in all we do – practice-oriented, leading-edge technological programs and delivery; vibrant student life with new residential housing and student activities that encourage learning inside and outside the classroom; on producing leaders and entrepreneurs able to tackle the unknowns of the future; and on extending our reach and reputation beyond southeast Michigan.

“I firmly believe that this vision is attainable for the University and for our graduates.” □BJA

For information about the search for Lawrence Tech’s next president, visit www.ltu.edu/presidentialsearch.

Lawrence Tech recognized for connecting engineering education and practice

The Department of Civil Engineering has won \$7,500 as one of five finalists in a competition sponsored by the National Council of Examiners for Engineering and Surveying (NCEES) for connecting engineering education with practice.

During the 2010–11 academic year, two senior project student teams from the department put their engineering education into practice by collaborating with the nonprofit corporation Self Help Addiction Rehabilitation (SHAR) of Detroit, which is promoting the redevelopment of blighted property in Detroit through its RecoveryPark master plan.

The Project E student capstone team developed plans for rehabilitating an abandoned market as an equestrian center for the Detroit Police Department. The project involves the renovation and expansion of a local landmark, the Chene-Ferry Market, rehabilitation of 12 square blocks in Detroit's Eastern Market neighborhood, and the environmental remediation of 46 acres.

The Earth, Preservation, and Recovery team proposed using a closed Detroit Public School building as a vocational school for urban farming and sustainable living skills. The project would redevelop the former Frederick Douglass High School on Detroit's east side. A new addition would house laboratories and a greenhouse.

During the planning process, the student teams worked with mentors in the civil engineering profession and made their final presentations to an industry advisory board. They also were in contact with industry practitioners and community organizers.

"These two teams gained knowledge about an underserved population in the Detroit area,



Lawrence Tech students (from left) Michael Kapetansky, Jessica Howard, Erica Walker, and Bryan Dage worked on a proposal for an urban agri-tech vocational school in Detroit.

and they saw how their skills as engineers can be used for the benefit of society," said Associate Professor Donald Carpenter, a faculty advisor for senior projects in the Department of Civil Engineering.

Gary Wozniak, RecoveryPark's chief development officer, said the Lawrence Tech students brought some new ideas to the planning process. "Young minds are ripe with innovative ideas, and the Lawrence Tech students have demonstrated this through their efforts to plan and design two unique projects that bring green ideas into our large urban revitalization master plan," he said.

□EP

Cuper wins Marcum customer service award

Adjunct Professor Jerry Cuper in the Department of Engineering Technology was awarded the Mary Ann Marcum Customer Service Award for the fall semester. President Lewis Walker and Frank Marcum, DIT BSME'72, presented the award at a November reception.

The award is named in honor of Mary Ann Marcum, MBA'92, who was director of the University's continuing education program when she was killed in a tragic auto accident.

Thanks to Marcum's generous gift in memory of his late wife, the award is presented biannually to Lawrence Tech employees who provide their customers (including co-workers) with quality service, outstanding assistance, and cooperation. The award program provides a \$1,000 prize, a desktop plaque, and formal recognition on a permanent plaque in the Buell Management Building.

Cuper worked for more than 30 years at Ford Motor Company

in engineering design, management, product planning, testing, and development. He also has been affiliated with Lawrence Tech for more than 30 years, working in the Office of Admissions and teaching. Five years ago he joined the Department of Engineering Technology on a full-time basis as

both a lecturer and advisor.

"Cuper's passion, enthusiasm, and personalized attention help students learn and meet their goals. He is always willing and available to assist in meeting student needs," Walker said.

Cuper demonstrated his commitment to students by announcing that he plans to give his \$1,000 stipend to several students having trouble paying for their education. □EP



Frank Marcum (center) was presented with a thank you by some of the winners of the Marcum award (L-R), Jerry Cuper, Tammy Botzen, Kathy Gilman, Mina Jena, Clifton Johnson, and Diane Sobania.

Higher Learning Commission gives thumbs up to Lawrence Tech

More online degree programs and three new doctorate-level degree programs are among the changes at Lawrence Technological University resulting from reaccreditation by the Higher Learning Commission (HLC) for another 10 years.

No conditions were placed on the University when the review process was concluded earlier this year. The University was given a clean bill of health following a decade in which the campus was transformed and dozens of new degree and certificate programs were introduced.

"Lawrence Tech is a very different place than it was 10 years ago," said Associate Provost Alan

McCord, who led the Lawrence Tech team that prepared for the reaccreditation process. "There has been great progress in the breadth of programs, the composition of the faculty, and the academic climate. Due to the efforts of many people, we have maintained the standards of the Higher Learning Commission while going through a period of significant growth."

The HLC report gives Lawrence Tech the authority to create new online degree programs without obtaining prior approval from HLC.

Recent additions include an online master's degree of architecture. In the works are an online

certificate in health IT management and a master's degree in information systems.

This year Lawrence Tech launched a new doctorate program in mechanical engineering and a PhD in civil engineering. A PhD program in management should be launched in 2012.

After reviewing Lawrence Tech's self-study and meeting with various groups on campus, the HLC visiting team cited a number of institutional strengths, including:

- Lawrence Tech demonstrates a family atmosphere and high levels of commitment.
- Lawrence Tech faculty relate strongly to their students, and longevity of faculty and staff reflects on their commitment to the University.



- The Board of Trustees is energetic, engaged, and involved.
- Lawrence Tech has weathered the economic crisis with minimal impact on students.
- The campus is functional, attractive, and well maintained.
- The Undergraduate Leadership Curriculum and Entrepreneurship Program are forward-thinking and add value to the Lawrence Tech experience.
- Support of online learning and technology is exemplary. □EP

Men's basketball coach builds new program on proud past

Lawrence Technological University has taken a big first step in restoring its proud basketball tradition with the hiring of Thomas Kempf as the head coach for the men's varsity basketball team. The University, which joined the National Association of Intercollegiate Athletics (NAIA) in April, will start both men's and women's basketball in the 2012-13 season.

(For the latest news about Blue Devil teams, go to www.bluedevilathletics.com.)

For the past eight years Kempf was assistant coach at Aquinas College in Grand Rapids, which competes in the Wolverine Hoosier Athletic Conference (WHAC) that Lawrence Tech has joined. During his tenure, Aquinas won several league championships and qualified for the NAIA national tournament four years in a row.

For 20 years Kempf was the athletic director and coach of both the boys' and girls' basketball teams at Gabriel Richard High School in Ann Arbor, where he also taught. He was the first Michigan coach to win state championships with both the boys' and girls' teams.

He also was an assistant coach for the men's varsity basketball team at his alma mater, the University of Michigan, for six years.

"Tom is ideal for this position at Lawrence Tech because of his knowledge of recruiting, his experience within the NAIA and the WHAC conference, and his long history of success at the college level," said Scott Trudeau, director of recreation, athletics and wellness at Lawrence Tech. "We are confident he will put together a very competitive team for our first season and revive our proud Blue Devils basketball tradition."

In the 1940s and early 1950s, the Blue Devils were a national powerhouse in basketball and represented Michigan in the National Invitational Tournament. (See related story on page 4.) Varsity

athletics were suspended in the 1960s because of lack of playing and practice facilities.

Athletic activities were revived on campus in 1987 with the opening of the Don Ridler Field House, and the University has been upgrading its athletic facilities this year following its acceptance by the NAIA.

Men's soccer, women's volleyball, and men's bowling are the first new varsity sports this year, and during the 2012-13 academic year the University expects to add women's soccer, men's and women's cross country, and men's lacrosse, in addition to men's and women's basketball. Lawrence Tech already has a men's varsity hockey team playing in the American Collegiate Hockey Association.

"My biggest task will be to get our name out there to basketball players," Kempf said. "Lawrence Tech has always had a reputation for academics, and many high school athletes are looking for that in a college. They just haven't heard about Lawrence Tech." □EP



Scott Trudeau (left), director of recreation, athletics, and wellness at Lawrence Tech, welcomed Tom Kempf to the Ridler Field House, where he will coach the men's varsity basketball team.

Women's soccer coach knows all about starting from scratch

Lawrence Technological University's women's varsity soccer coach Jamie Scott began her collegiate playing career on a brand new varsity team at Madonna University. Now she is starting her collegiate coaching career with a brand new team at Lawrence Tech.

Scott knows from personal

experience that a successful program can be built quickly. She was in her third season as the team's center midfielder when Madonna went to the final four in the national tournament of the National Association of Intercollegiate Athletics (NAIA). Lawrence Tech joined the NAIA this year, and the women's soc-



Jamie Scott

cer team will begin playing in the NAIA-sanctioned Wolverine Hoosier Athletic Conference in the 2012 season.

For the past 10 years Scott has pursued a career as a social worker while also coaching youth soccer, but she jumped at the chance to take a full-time job where she can share her enthusiasm for the sport she loves.

"My biggest passion is soccer. I'm looking forward to giving back to the game," she said. □EP

New KCP grant expands educational support for students

Lawrence Technological University will receive \$780,000 over six years to provide support for hundreds of students and strengthen academic programs that impact the entire student population.

Lawrence Tech will receive \$130,000 a year through the State of Michigan's King-Chavez-Parks (KCP) Initiative that specifically targets students who are financially or academically at risk, non-traditional or first-generation, or from traditionally underserved populations. The program is named in honor of civil rights pioneers Martin Luther King, Jr., Cesar Chavez, and Rosa Parks.

Most of the funding comes from federal sources and is administered by the Division of Lifelong Learning of the Michigan Strategic Fund. Lawrence Tech has participated in the grant program since 1999.

"KCP programs target students who are financially and academically at risk, but they benefit almost all of our students and help level the academic playing

field," said Senior Lecturer Holly Helterhoff, KCP program director at Lawrence Tech.

The new grant expands the centerpiece of Lawrence Tech's KCP grant, the Scholars Program, which each year brings together about 40 students to provide a support group for each other while also contributing to campus life and the academic community.

The extended funding introduces several new programs:

- Operation: MACRO (Math Achievement: A Culture of Relevance & Ownership) combines drill-based learning and discipline with creativity and practical applications. Students will learn

how to take charge of their own math education.

- Operation: Science supports students in gateway science courses utilizing a peer-driven supplemental instruction model developed at the University of Missouri-Kansas City.

- Operation: CultureShock! introduces at-risk students to the active-collaborative and problem-based learning models necessary for success in science, technology, engineering, and math (STEM) courses.

- Operation: Internship connects at-risk students with internship

opportunities early in their college careers and promotes the "soft skills" needed to flourish in the workplace.

- Operation: FLEX (Financial Literacy Education eXchange) provides personal finance literacy education and mentoring.

- Operation: Enhanced Clinical Counseling helps students work with learning and emotional disabilities.

In addition, Lawrence Tech will develop partnerships with two existing KCP programs at other universities:

- GEAR-UP/College Day Program at Oakland University helps middle school and high school students prepare for college.

- Future Faculty Fellows Program at Wayne State University provides support to graduate students who will teach at-risk students in the future.

Dean of Students Kevin Finn is the primary investigator for the KCP grant and Dean of Arts and Sciences Hsiao-Ping Moore is the co-primary investigator. Eula Muckleroy is the program coordinator. □EP



Photo by Felicia Koch

Incoming Lawrence Tech students learned about the solar panels on the roof of the Engineering Building during Summer Connections, a week-long introduction to college life funded by the KCP grant and hosted by the LTU Scholars.

Electrical engineering alum joins board of trustees

Larry Lawson, BSEE'80, executive vice president and general manager of the F-35 Lightning II fighter aircraft program at Lockheed Martin Aeronautics Co., has been named to the Board of Trustees at Lawrence Tech. His term expires in 2013.

Before moving to his current Lockheed Martin position in 2010, Lawson was executive vice president and general manager of the F-22 Raptor fighter aircraft program for six years. Previously he was business development vice president of Lockheed Martin's

electronic systems business area.

Lawson started his career at McDonnell Douglas working on the F-15. He then worked on reconnaissance systems for Recon-Optical Inc. before joining Martin Marietta in 1986. He holds patents in advanced signal processing discrimination technology.

Lawson also has a master's degree in electrical engineering from the University of Missouri. He is a graduate of the Harvard Business School Advanced Management Program and a MIT Seminar XXI Fellow.



Larry Lawson

He has established an endowed scholarship in electrical engineering at Lawrence Tech and has made an additional commitment to support the A. Alfred Taubman Engineering, Life Sciences, and Architecture Building. He serves on the steering committee for the "Proud Heritage, Bold Future" capital campaign.

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

First RoboExpo brings together robotics fans of all ages

Lawrence Tech's first RoboExpo connected academia, industry, and government sectors involved in robotics, and it also attracted students of different ages interested in the rapidly growing field.

LTU recently introduced Michigan's first bachelor's degree in robotics engineering, building on a number of activities in robotics at the University during the past 12 years. One of the developers of the new degree program is Associate Professor CJ Chung, the founder of Lawrence Tech's Robofest international competition who has been very active in robotics education.

Chung started RoboExpo to build new connections among people who are interested in robotics. "We want to bring academia, industry, and government together to share knowledge and resources, promote R&D collaboration, and introduce new robotics products, services, and educational programs," Chung said.

The one-day RoboExpo included an introduction to next year's Robofest competition, and five high school teams competed in what is believed to be the world's first hexapod robot sumo event.

The keynote address was delivered by Mark Salamango, MSCS'06, co-founder and president of RobotTown Inc., a planned robotics research consortium and education center in Detroit. (See related story on page 32.)

Among exhibitors at RoboExpo was Maurice Tedder, MSCS'05,

founder of Robotic Intelligence Software Inc. in Detroit. As a student he was involved in many LTU robotics programs, starting in 2003.

Another exhibitor was Chris Anders of CeTech Industries, an Army veteran working on a bachelor's degree in computer

science at LTU. He is a member of the team that will compete in the Intelligent Ground Vehicle Competition in spring 2012. □EP

Small robotic vehicles used for military missions were very popular at RoboExpo.



Chelaidite gives 2011 Pellerin lecture, Iyer selected for 2012

Alina D. Chelaidite, BSAr'07, MAR'10, delivered the annual Pellerin lecture in October on contemporary European architecture, which she studied on a travelling fellowship awarded annually by the College of Architecture and Design.

The traveling fellowship was established to honor the memory of Earl W. Pellerin, the first professor of architecture at Lawrence Tech and the founding dean of the College of Architecture and Design, who believed that travel is an important part of an architect's education.

Chelaidite's thesis was on

"Social Landscaping," which focused on urban growth using parametric design as a tool to generate prototypes for city growth.

She visited works of contemporary European architecture and interviewed key individuals responsible for their design. She is interested in parametric design, which is a tool/method to define and control rules applied to certain geometry to help optimize or generate design ideas. On her Pellerin tour she gained an understanding of how parametric tools are used in the design process.

The 2012 Pellerin traveling



Architecture Cabinet Chair **Adrienne Abrams** (left) and this year's Pellerin traveling fellow, **Alina Chelaidite**.



Priya Iyer

fellowship has been awarded to Priya Iyer for her study proposal to investigate architecture and food distribution systems for a Native American community in Santo Domingo Pueblo in New Mexico and an Hispanic community in San Francisco.

"While her travel is within the U.S., she will be studying solu-

tions from cultures very different from our local culture, which aligns with Dr. Pellerin's beliefs," said Architecture Cabinet Chair Adrienne Abrams who was on the Pellerin jury. □EP

Graduate students help Southfield with Mid-Century Modern guidelines

Recognizing and protecting examples of Mid-Century Modern architecture in Southfield was the goal of three Lawrence Tech urban design students who worked as an internship team for the Southfield Planning Department over the summer.

Carolina Ferrero, David Lewis, and Michael Mason extended the internship they took for a course, Principals and Practices of Urban Design, taught in the summer semester by Assistant Professor Constance Bodurow, the coordinator of the Master's of Urban Design program, which focuses on sustainable urbanism.

The student team worked with Southfield Director of Planning Terry Croad, who said the design guidelines and inventory the students developed should create greater appreciation in the community for this style of architecture. Mid-Century Modern buildings are characterized by clean lines, minimalism, and both

organic and geometric shapes.

The interns documented three districts/neighborhoods and dozens of buildings built from the 1950s to the early 1970s – when post-modernism became popular – that are important to the architectural heritage of Southfield, which grew rapidly after World

War II as a first-ring suburb of Detroit.

"This architecture is an expression of a whole new lifestyle that developed" across the country, according to Croad.

One of the most significant buildings in Southfield is the former Reynolds Metals Regional

Sales Office at 1600 Northland Drive. It was designed by Minoru Yamasaki, the Troy-based architect best known for the World Trade Center in New York. Lawrence Tech's Science and Engineering buildings are other examples.

The students have proposed design guidelines for three general categories: structure, materiality and site features. They addressed new construction, rehabilitation projects and additions to the buildings.

"The students brought energy, passion and skills to a project that the department didn't have time to complete," Croad said. "This is a great way to utilize a resource like Lawrence Tech right in our backyard." □EP



Southfield Director of Planning **Terry Croad** (left) worked with Lawrence Tech interns **David Lewis**, **Carolina Ferrero**, and **Michael Mason** as part of a course they took with Assistant Professor **Constance Bodurow** (right).

CIMR adds new equipment to aid research, student skills



Lawrence Tech's Center for Innovative Materials Research (CIMR) has added another state-of-the-art testing instrument, the Instron ElectroPuls E10000, which uses a laser to measure the performance of materials under different stress factors and environmental conditions.

The ElectroPuls E10000 is an all-electric system that doesn't need hydraulic mechanisms or a cooling system. The laser measuring device is an attachment that makes the instrument both more accurate and easier to use. As currently configured, the testing instrument has a retail value close to \$400,000, according to Dean of Engineering Nabil Grace.

The ElectroPuls measures the performance of materials when subjected to pulling, twisting, and repeated loads. An environmental chamber can test the performance in dry heat up to 180°F or in sub-zero temperatures.

Grace said the instrument has military applications. It will be used at Lawrence Tech to determine the ability of prototype materials to withstand bomb blasts and other high-intensity stresses. The instrument also has applica-

tions for biomedical engineering research currently under way at Lawrence Tech.

LTU has growing applied research capabilities that both enhance student learning and provide data to corporate and government clients who contract with the University.

CIMR is housed in a 7,200-square-foot research facility with a 30-foot clearance height. It has a 25,000-pound crane to accommodate testing of structural components up to 100 feet long under various types of loads up to one million pounds.

A large-scale fire chamber with dynamic and static loading capabilities can test structural components in temperatures up to 2,300°F.

A full-scale environmental chamber – spacious enough for a large vehicle – can simulate harsh weather conditions such as blowing, freezing rain. The temperature range is -90°F to 185°F.

Earlier this year Lawrence Tech installed the MTS Model 311 Four Post Frame, which is a high-force test system that can be used for a variety of material property tests. It has an environmental chamber that can subject a specimen to temperatures ranging from -200°F to 200°F. The MTS machine can be used for a variety of academic, industrial, and research applications. □EP

Dean of Engineering Nabil Grace examined the ElectroPuls testing instrument with students Alan Killewald and Erisa Panajoti.

Deines heads up Art and Design department

Amy Green Deines has been named chair of the Department of Art and Design in the College of Architecture and Design. She joins the faculty as an associate professor.

The department has seven full-time faculty and approximately 50 adjunct faculty. It offers degree programs in transportation design, interior architecture,

industrial design, graphic design, environmental graphics, game art, and imaging—digital arts.

Deines taught previously at the University of Detroit Mercy, the Cleveland Urban Design Center affiliated with Kent State University, and Warsaw Polytechnic University in Poland.

Experienced in both the public and private sectors, she special-

izes in industrial, graphic, and urban design. She has been involved in numerous prototypical projects that have been awarded four U.S. patents involving technology and customization within point-of-purchase environments.

□EP



Amy Green Deines

Stormwater management trail planned for LTU campus

A stormwater management education trail is coming to Lawrence Tech, funded in large part by a \$57,000 donation from the Erb Family Foundation of Birmingham. It will demonstrate techniques for minimizing the damage to the environment caused by stormwater runoff.

The educational tool is the brainchild of Associate Professor of Civil Engineering Donald Carpenter, the founder and director of the Great Lakes Stormwater Management Institute

at Lawrence Tech.

Signs at seven or eight stops will describe various run-off prevention and water preservation features on Lawrence Tech's campus, including a green roof, porous pavement, rain gardens, and the use of native plants to replace lawns.

Carpenter hopes that the trail, along with other efforts, will help educate builders, architects, local zoning officials, and others that these features can be a regular part of any construction.

"In general I think there is a disconnect for a lot of the public in understanding how water management works, the tie between water management and protecting

our water," said Carpenter, who finds that elementary and middle school-aged children have a better grasp of the topic than their parents.

The mission of the Erb Family Foundation, founded by Fred and Barbara Erb, is to nurture environmentally healthy and culturally vibrant communities in metro Detroit by supporting projects aimed at restoring the Great Lakes Basin. □EP



Donald Carpenter

Shevenock wins NASA scholarship and internship

Stephanie Shevenock of Warren, a mechanical engineering major at Lawrence Tech, is one of 25 students nationwide who have won scholarships and summer internships for the 2011–2012 academic year from the National Aeronautics and Space Administration (NASA).



Stephanie Shevenock

Shevenock will receive \$15,000 per year to cover tuition costs

for two years and a \$10,000 stipend during an internship next summer with NASA.

She will have the opportunity to

intern with NASA researchers and directly work on such projects as managing air traffic more efficiently; reducing noise, fuel consumption, and emissions; and improving safety.

Shevenock has been a member of Lawrence Tech's SAE Aero Design teams that finished in the top 10 in national competition for the past two years. She is team captain of the 2012 team and president of the Lawrence Tech

chapter of the American Institute of Aeronautics and Astronautics. Earlier this year she went to Washington, DC, as a student lobbyist for Citizens for Space Exploration.

"NASA is Stephanie's dream job and one of the key reasons she is studying engineering," said Associate Professor Andrew Gerhart, Lawrence Tech's SAE Aero Design faculty advisor. □EP

Alumni talk about life in the real world

Four relatively recent Lawrence Tech alumni were on campus in September for the first Leadership Seminar Series panel discussion entitled, "How to Say No and When to Say It: Balancing Your Commitments." They addressed the high expectations that Lawrence Tech graduates face in a very challenging job market. From left are Sam Moschelli, BSAr'00, MAR'06; Jessica (Kaadou) Marji, BSAr'04, MAR'06; Chad Olson, BSME'99; and Rachel Cronover, BFA'06.



Homecoming shines spotlight on Quidditch

Quidditch, a relatively new sport favored by brainy kids who grew up reading long books about a school for wizards, has come to Lawrence Tech. During halftime of the Homecoming soccer game, the Blue Devil Troopers defeated Muggle Swag, 80-20, to win the new Quidditch trophy displayed at Ridler Field House.

Quidditch has multiple goals and multiple partially deflated balls with different functions, and the rulebook is more than an inch thick, but that hasn't discouraged Lawrence Tech students from learning how to play.

"Who doesn't want to run

around with a broom getting muddy and tackling fellow students?" said Rachel Yarbrough of Muggle Swag.

Michelle Hier, who played for the Hungry Hippogriffs in the preliminary round, helped organize the tournament at the request of Dean of Students Kevin Finn. "It was a fun event for everyone because Harry Potter fans have found another outlet for all their Harry Potter love. After the last movie came out a lot of fans were unsure of what to do about it all being over. Playing Quidditch is a way to keep the Harry Potter experience going," she said. □EP



Student Adam Franzel drew a crowd as he maneuvered to take a shot during Lawrence Tech's first Quidditch championship.

Mob on the Quad



First-year mentor Nate Walley (left) and Student Marshal Tony Sabat led a group of enthusiastic Lawrence Tech students in a "flash mob" dance that interrupted the normally sedate proceedings of the New Student Convocation.

Lawrence Tech crowns first disc golf champion

Craig Przytulski, BSCvE'10, became Lawrence Tech's first official disc golf champion when he won the Homecoming Disc Golf Tournament on Oct. 1.

Windy and cold weather kept some players at home, but a dozen hearty competitors teed off in the first round. The wind didn't seem to bother Przytulski too much, as he scored 53 – 10 under par – on the challenging course that included some additional water hazards due to rain during the previous week.

Eight players advanced to the final round. Przytulski recorded another 53, for a two-round total of 106. Jon Andare had the low round of the day with a 51 to finish second at 109, and Levi Lafromboise was third at 115.

□EP



Lawrence Tech disc gold champion Craig Przytulski nailed this putt during Lawrence Tech's first disc golf championship.

LTU exhibits work of three retired architecture professors



Photo by Ariana Quezada

Retired Lawrence Tech professors John Sheoris, Joseph Savin, and Harvey Ferrero attended the Aug. 23 opening of the Master Practitioner Folio Series exhibit of their work in the gallery of the University Technology and Learning Center in September.



Professor emeritus continues to publish

Six years after retiring from Lawrence Tech, Professor Emeritus Lee Lahr (right) has published a new book, "Minding Your Own Business: Prepare to Run One." During a visit to campus in the summer, the former dean of the College of Management shared some insights about the book with Associate Provost Alan McCord, who is also serving as interim dean of the College of Management. To learn more about the book, go to www.wanttoownyourown-business.com.

College experiences live on for Fitzpatrick

Despite the passage of nearly four decades, Alumni Achievement Award honoree Michael Fitzpatrick, BSME'73, has vivid – and sometimes humorous – memories of his student days at Lawrence Tech.

“One calculus professor,” Fitzpatrick recalled, “really knew his calculus. He was teaching us the first derivative of a fraction and he would say the following really, really fast as he wrote on the chalk board: ‘Take the denominator times the derivative of the numerator minus the numerator times the derivative of the denominator over the denominator squared’ – except all his words would run together in a kind of a fast chant. I remember that to this day!”

Fitzpatrick is the president and CEO of Fitzpatrick Mfg. Co. in Sterling Heights. Founded by his father in 1952, the company is now one of Michigan’s largest contract manufacturers with more than 100 machines, an 80,000-square-foot facility, and more than 90 employees. It provides in-house precision CNC turning, milling, and surface grinding for customers in the aerospace, defense, homeland security, mining and drilling, medi-

cal equipment, and advanced automotive technology fields.

Fitzpatrick said his education in mechanical engineering at Lawrence Tech prepared him for running his own manufacturing business – but not in the traditional way.

“In my daily work I actually do not use any of the knowledge I learned in thermodynamics, gas dynamics, calculus, differential equations, and so forth,” he said. “But every day I use the academic discipline of problem solving that I learned. That is, I suspend preconceived assumptions, gather the facts, discuss the facts, incubate and percolate initial solutions, finalize a solution, act on it, and verify that it worked. My engineering schooling embedded in my brain this type of scientific approach to problem solving, and for that I am forever grateful.”

In his sophomore year Fitzpatrick pledged Phi Kappa Upsilon, beginning a long and rewarding association with the fraternity. “It was kind of a magical time for me, to be 19 or 20 years old living away from home with a bunch of guys running our

own place,” he said. “I remember driving to school in the morning, going to class, meeting each other for lunch, and studying in the evening. I enjoyed the camaraderie of this experience so much that I am still active in the fraternity to this day.”

Fitzpatrick is characteristically modest about receiving the Alumni Achievement Award. “I have had a reasonably successful business career, and I am tickled – yes, that is the right word – and honored that I was chosen for the Alumni Achievement Award. Obviously the criteria for this award did not include a high graduating GPA! I am also so very pleased that Lawrence Tech has endured, changed, and grown, and that I can play a small contributing role in its success,” he said.

Lawrence Tech has been a beneficiary of Fitzpatrick’s generosity in many ways over the years. Most recently he and his wife, Barbara,

established a \$1 million bequest in support of the Phi Kappa Upsilon Endowed Scholarship. He also supports senior project teams each year through in-kind material donations.

Community service is important to Fitzpatrick, and he encourages his employees to join him in support of Winning Futures, a local mentoring group that targets at-risk youngsters.

“I have been a mentor for 15 years with Winning Futures,” he said. “We work with high school students on the edge of dropping out and give them the wherewithal to graduate. I’ve also been active for 45 years in my fraternity, holding several offices and contributing my time and resources to better the organization. I believe giving back is part of any successful person’s life. I’ve worked hard, but I’ve also been lucky. I recognize this, and I’ve attempted to give back some of this good fortune through community service.”

□CWM

Nemitz helps set the standard for historic renovation

Success did not exactly come overnight for Tom Nemitz, BSAr’82, who received the Alumni Achievement Award in May. After graduating from Lawrence Tech, he sent out more than 100 resumes and received precisely two responses, one from Minnesota and the other from Grand Rapids.

He chose to work with prominent Grand Rapids architect Marvin DeWinter, and his first major project was transforming the elegant but faded Pantlind Hotel into today’s iconic Amway Grand Plaza. For a time, his direct supervisor was Gretchen Minnhaar, BSArE’59 (see *Fall/Winter 2010 issue*).

Four years later, Nemitz joined DSO Reid Architects in Grand

Rapids, where he continued to do renovation design. In 1989, he struck out on his own and founded Cornerstone Architects.

One of the first big jobs of the firm was designing three stores in various parts of the country for Grand Rapids-based Gantos, then a prominent women’s clothing retailer.

Around the same time, Cornerstone was hired to renovate the landmark 15 Ionia Ave. SW building in downtown Grand Rapids. This was the first of many projects that would earn Nemitz and his firm honors by the truckload over the ensuing years.

Last year, Cornerstone won two prestigious state awards – an Honor Award from the American Institute of Architects Michigan



President Lewis Walker and Provost Maria Vaz greeted this year’s winners of the Alumni Achievement Award, Thomas Nemitz and Michael Fitzpatrick, prior to Commencement.

for the Herbert H. and Barbara C. Dow Center for Visual Arts at Interlochen and the Governor's Award for Historic Preservation for the Clear Water Place project in Grand Rapids. The latter award is considered the highest honor a restoration project can receive in Michigan, and Cornerstone has won it three times.

Over the years, Nemitz has directed more than 100 adaptive reuse projects in Michigan, including more than 80 historically significant structures. In addition, as principal in charge, he has provided design for many of the firm's educational projects in the state.

It wasn't always a smooth ride for Nemitz. After starting off in the fast lane, Cornerstone hit a speed bump, and business dried up during a slump in 1991. It lasted only a couple of months, but to Nemitz it seemed like an eternity. Since then, however, the firm has grown slowly but steadily.

Today, at the main office in Grand Rapids, Cornerstone specializes primarily in historic preservation and urban renewal projects. Ironically, about four years ago, the firm was forced to move its headquarters to a less expensive location. Leasing costs at its old location were skyrocketing due to the numerous Cornerstone projects in the immediate vicinity. You might call it the price of success.

Cornerstone also has an office in Traverse City that focuses primarily on educational and civic projects and a Metro Detroit office in St. Clair Shores that specializes in renovation and commercial/institutional interior design.

Nemitz credits his education at Lawrence Tech with giving him the start he needed to become a successful professional. "Lawrence Tech provided a strong and realistic basis for practicing architecture," he said. "Exposure to construction systems, urban planning, historic preservation, art history, and extensive and varied design exercises prepared me for what our profession is looking for in an

intern architect and beyond."

He is also thankful for the hands-on experience he received from his instructors, including "the urban planning exercises of Bob Champlain, the inspirational teaching of Robert Benson and his ability to conduct art history as a

virtual travelogue, and the freedom of design instilled by Joe Savin, Harvey Ferrero, and others."

The long list of friends made at Lawrence Tech includes three who are with the company today – Cornerstone partner John Dancer, BSAr'82, BA'84, in the

Traverse City office; associate partner Dan Iacovoni, BSAr'81, BA'84, in the Grand Rapids office; and, significantly, Nemitz's wife of 27 years, the former Luann Techentin, BSAr'82, a registered architect and interior designer. □CWM

Biomedical engineering alum earns Army citation for civilian service

Steven Herrick, BSBmE'08, is the recipient of the Commander's Award for Civilian Service from the Department of the Army for his outstanding efforts as a senior theater engineer during a six-month tour of duty in Afghanistan.

In this role, Herrick provided technical expertise to the U.S.

Army's Mine Resistant Ambush Protected (MRAP) Vehicle Program. These vehicles are credited with dramatically reducing combat deaths and casualties associated with land mines and other explosive devices.

The Army citation said Herrick provided "unsurpassed technical

expertise and theater leadership" in support of more than 500 MRAP personnel and more than 3,300 MRAP vehicles operating in Afghanistan. It also credited him with identifying and helping to resolve critical engineering issues with an MRAP vehicle used in combat operations in rural, mountainous, and urban terrain.

Herrick was the first student to graduate from Lawrence Tech with a biomedical engineering degree with a concentration in mechanical engineering. For his senior project, he and fellow students Tristan Maerz and Chris Andreacovich redesigned a hospital gurney to reduce the force necessary to transfer patients to and from a bed.

"We collaborated for over one year and were happy to report that we designed a novel translation mechanism that would allow a patient to be transported easily," Herrick recalled. "Professors Ken Cook and Jerry Cuper were outstanding mentors during this whole process."

Upon graduation, Herrick worked on the blast mitigation team at the Army's Tank Automotive Research, Development and Engineering Center (TARDEC). Since returning from his tour of duty in Afghanistan in February 2010, he has been serving as a system engineer for the MRAP-All Terrain Vehicle (M-ATV) Program Office. He was recently promoted to lead system engineer for the Special Operations Command variant of the mine-resistant all-terrain vehicle (M-ATV) – one of five categories in the MRAP family of vehicles. □CWM



During his tour in Afghanistan, Steven Herrick (right) briefed Undersecretary of the Army Joseph Westphal on the merits of the Army's mine-resistant all-terrain vehicle (M-ATV).

Army Corps of Engineers honors Mausolf

Gregory Mausolf, BSCvE'06, a hydraulic engineer with the Hydraulics and Hydrology Office of the Detroit District of the U.S. Army Corps of Engineers, received the Engineer of the Year award in June.

As the main coastal engineer in the Detroit District, Mausolf is responsible for the review of permit applications for the district's 4,300 miles of Great Lakes shoreline as well as for the coastal analysis for maintenance, rehabilitation, and modifications of the district's 106 commercial and recreational federal harbors.

Over the past two years, Mausolf has been the lead project

engineer for a multimillion-dollar project to study and improve the methodology FEMA uses to determine flood risk for flood-prone areas of the Great Lakes. He is responsible for combining and scheduling multiple studies that ultimately will enable the team to produce modifications to the FEMA document, "Great Lakes Coastal Guidelines Update." The FEMA project was awarded the 2011 Engineers Day Project Delivery Team of the Year for the Detroit District.

"The changes we are making to the methodology have to be explained to the various state, county, and city consulting firms,

other stakeholders, and various agencies that may be affected. I have to present this material for both technical and non-technical audiences," he noted. "The presentation skills that I built at Lawrence Tech have really been beneficial to me during this project and many other projects over the years."

Mausolf originally wanted a career designing and building bridges and other structures. Once he started at Lawrence Tech, however, he discovered his love for the science of hydraulic engineering as it applies to rivers and lakes.

"Dr. [Donald] Carpenter and Dr. [Edmund] Yuen had inspired me during my undergraduate studies,



Gregory Mausolf

and that changed the direction of my career goals. In my graduate studies at Lawrence Tech, I was first exposed to coastal engineering, and I knew this is what I wanted to do," he recalled. □ *CWM*

Teaching fellowship puts Myers on path to give back

Quinton Myers, Jr., BSEE'05, BSCmE'05, is among 13 fellows attending Eastern Michigan University as part of the inaugural Michigan class of the W.K. Kellogg-Woodrow Wilson Michigan Teaching Fellowship.

The three-year fellowship is awarded to promising educators with strong backgrounds in science, technology, engineering, and mathematics, collectively referred to as STEM. Fellows receive



Quinton Myers, Jr.

\$30,000 to pursue a customized master's degree program that prepares them to teach in high-need or rural secondary schools in seven local districts across the state.

"I chose to participate in this program because it presented me with the opportunity to impart confidence, guidance, knowledge, and love to our future leaders," Myers said. "I want to show our young people that if they put their education first, it will pay huge dividends in the end. My goal for the future is to become not just a teacher; I want to become a true educator and motivator!"

Growing up in Detroit and participating in the Detroit Area Pre-College Engineering Program (DAPCEP), Myers' long-time dream was to become an engineer.

"With that focus, Lawrence Tech put me on the path to make my dream a reality," he said. "Today, I am a successful electrical engineer with a Tier 1 supplier to the automotive and aerospace industry."

Myers is particularly grateful to Associate Professor Lisa

Anneberg and all the professors in the Department of Electrical and Computer Engineering and offered a special thank you to David Fawcett, an adjunct professor in math and computer science. "He believed in me and in my abilities," Myers said. "He had a tremendous impact on not only my college career but my personal life as well." □ *CWM*

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Did you meet your spouse at Lawrence Tech?

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

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

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

Architecture alumni share 'firm of the year' honors

When the American Institute of Architects Michigan presented its 2011 Firm of the Year Award to inFORM studio, it was a clear signal to co-founder Gina Van Tine, BSAr'89, BA'94, AIA, LEED AP, that the 11-year-old firm is on the path she and her business partners envisioned.

"This is an indicator that we are headed in the right direction," she said. The AIA Michigan award recognizes an organization of architects who have consistently

produced distinguished architecture for at least 10 years in a collaborative environment.

Sharing the honor are Van Tine's fellow principals, who are also Lawrence Tech graduates: her husband, Kenneth Van Tine, BSAr'85, BA'86, AIA; and Michael Guthrie, BSAr'95, AIA. Other Lawrence Tech graduates in the firm are Jordan Whitted, BSAr'07; Cory Lavigne, BA'96; Jeremy Ervin, BSAr'98, MA'00; and Robert Miller, BSAr'98, MA'06.

Founded in 2000 as Van Tine|Guthrie Studio and renamed in 2007, inFORM studio is a design-based practice with offices in Detroit, Myrtle Beach, SC, and New York City. The name change reflected the firm's plan to pursue a higher level of research that uses an environmentally sustainable approach to every project.

"Our mission has not changed, but we have expanded our expertise to become a design office focused on a myriad of creative

services. inFORM studio has been refocused as a more nimble enterprise that still retains a vision for design innovation at a global scale," Van Tine said.

The firm has won a number of state and local AIA honor awards, most recently the winning entry for an iconic pedestrian bridge for the city of Providence, RI, in a competition involving 47 international firms.

Van Tine credits her education at Lawrence Tech with "providing practical tools and allowing me to learn all the necessary basics and enhance my own talents in architecture."

She is a past chair of the Architecture Cabinet of the Lawrence Tech Alumni Association. □CWM



Members of inFORM studio are (left to right) Anna Haezebrouck, Michael Guthrie, Jordan Whitted, Cory Lavigne, Gina Van Tine, Jeremy Ervin, Ken Van Tine, and Robert Miller.

Andre and Lanting named Donley distinguished graduates

Allison Andre, BSBME'11, and Matthew Lanting, BSCME'11, BSCS'11, BSMA'11, and BSEE'11, are this year's winners of the Ed Donley Distinguished Graduate Award.

Each year the Alumni Association honors one male and one female graduating student for excellence in academic, community, and campus leadership. The award is named in honor of alumnus and long-time Lawrence Tech supporter, Ed Donley, BME'43.

Andre, whose degree is in biomedical engineering, collaborated with Beaumont Hospital in Royal Oak on a tissue-engineering research project. She also helped reestablish the Biomedical

Engineering Society chapter at Lawrence Tech.

Andre served in leadership positions in the Delta Phi Epsilon sorority, was a member of the Spanish Club, and was involved with the Multiple Sclerosis Foundation. She also gave tours to prospective students for the Office of Admissions, where she worked.

Lanting earned honors for four degrees in computer engineering, computer science, mathematics, and electrical engineering. His goal is to complete a PhD in computer science/robotics and do research in robotics and artificial intelligence.

He did robotics research in Lawrence Tech's Alternative Energy

Lab and was a member of the Formula Hybrid race team. He is a member of Eta Kappa Nu and the Lambda Iota Tau honor societies.

Lanting held leadership posts in the IEEE Student Branch and Math Club. He competed four times in the annual Michigan Mathematical

Contest in Modeling and three years in the international contest. He made presentations at three annual meetings of the Michigan section of the Mathematical Association of America. □EP



Provost Maria Vaz and President Lewis Walker congratulated this year's Donley Distinguished Graduate Award winners, Matthew Lanting and Allison Andre, at Commencement.

VanderKlok honored as 'Young Architect of the Year'

David VanderKlok, BSAr'94, BAR'97, AIA, NCARB, concedes that it was "a bit of a fluke" that he ended up as a student at Lawrence Tech in the first place.

"I got into a bit of trouble in high school, and my dad and I had the 'what-are-you-going-to-do-with-your-life' talk," he remembered. "I was working

construction at the time so I mentioned the possibility of exploring architecture. He thought this was a good idea, and my parents had a Lawrence Tech catalog in my hands within a week. Three weeks later, they drove me to Lawrence Tech's spring open house."

He liked what he saw and the rest, as they say, is history. Well,

not quite. VanderKlok had yet another date with destiny on the very day he moved into his room in South Housing. Fellow architecture student Kenneth Jones II lived across the hall, and the two became pals.

"Ken and I had fun during our student days," VanderKlok recalled, prompting a confession 20 years after the fact. "I think that the statute of limitations has passed so that Ken and I can claim responsibility for the lifelike dummy 'jumper' that leaped to his death from the fifth floor during spring finals week in 1991. A girl fainted, security rushed to his aid, and there was a manhunt to identify those responsible."

But it wasn't all hijinks. The two were outstanding students and destined to become business partners. In 2003, VanderKlok and Jones, BSAr'94, BAR'95, co-founded Studio [intrigue] Architects with

big dreams and no clients. A year and a half later they had a client base of 75 businesses, a project list of 300, and a team of seven people.

Their Lansing-based firm has won several awards since its founding, and this year VanderKlok, an adjunct professor in Lawrence Tech's College of Architecture and Design, was honored as AIA Michigan's 2011 Young Architect of the Year along with two others.

"Hands down, I walked out of Lawrence Tech well prepared," VanderKlok said. "I didn't realize this until I went to work alongside graduates from other universities. It didn't take me long to realize I was much more 'effective' because of my academic experiences."

He said that Tom Nashlen and Gretchen Maricak, associate professors in the College of Architecture and Design, were among the faculty members who influenced him most as a student.

□CWM



David VanderKlok in his office at Studio [intrigue] Architects in Lansing.

Structural engineering career began with steel bridge competition

Brian Volpe, BSCvE'00, BSAr'01, PE, SE, LEED AP, was recently promoted to vice president in the Chicago office of the international engineering firm Thornton Tomasetti, where he is developing and expanding the firm's Construction Support Services practice.

"My education at Lawrence Tech was essential to my career development," he said. "With dual bachelor's degrees in civil engineering and architecture, I was fortunate to take the visual and graphical aspects of my architectural training and couple them with the technical aspects from my engineering training."

Volpe joined Thornton Tomasetti in 2008. His expertise includes structural design and management, advanced project delivery, integrated modeling structural steel connection design, and con-

struction engineering. These skills are applicable to a range of building sectors, including aviation, health care, industry, high rise, sports, and long span.

His portfolio includes:

- The award-winning Great American Tower at Queen City Square Tiara in Cincinnati, for which he provided connection design, geometric reconfiguration, Tekla modeling, and detailing services.
- The Greenside Hangar Complex at the Quantico Marine Corps base in Virginia where his connection design, integrated modeling, and steel shop drawing production helped shave weeks off the project schedule.

Volpe is currently working on a 13,000-seat auditorium in Wisconsin that will feature a green roof.

Earlier in his career he worked



Brian Volpe

for Ruby + Associates PC in Farmington Hills, where he was a project manager on the 2,700-ton roof lifts at Ford Field in Detroit, the Gateway Bridge on I-94 in Taylor, Motor City Casino Hotel Tower in Detroit, and Freedom Hill Amphitheater in Sterling Heights.

At Lawrence Tech, Volpe participated in the steel bridge competi-

tion sponsored by the American Institute of Steel Construction and the American Society of Civil Engineers, in which students work together to design, fabricate, build, and test a scale-model steel bridge. It was his first experience in design and manufacturing in the 3D digital world.

"My career has followed the path from my bridge competition experience very closely," he said. "My business now is the development of a practice sector within Thornton Tomasetti that leverages digital 3D information for use in designing and manufacturing world-class structures." □CWM

Grad guides implementation of Ohio's construction reform initiative

After serving for more than three years as Ohio's state architect, Craig Weise, BSAr'93, is on a new mission. He's leading the implementation of a construction reform initiative that is expected to save the Buckeye State more than \$100 million a year.

"As program director I am the single point of responsibility for implementing the most significant construction reforms in how public projects can be delivered in Ohio in the past 134 years," Weise said of his new role, effective in July.

Over the years Ohio's construction laws have been cobbled together with different and overlapping authorities; the intent of the new law is to promote greater consistency and make it easier to do business with state and local governments across Ohio.

The process began in 2008 when state officials developed a collaborative process with industry to overcome long-standing obstacles to reform. In 2009 the Ohio Construction Reform Panel published a report of recommendations that included changes in state law.

After three successful demonstration projects in 2010, legislation was enacted this June to fully implement the reform plan. It gives public authorities their first opportunity to choose the best delivery method for their individual project, including design-build, construction management, general contracting, or the existing multiple prime contracting method.

"The state has 12 months to finalize these rules and documents, but we are targeting to complete them in approximately half that time," Weise said. "My role is to bring all of these different voices together and lead a team of highly experienced professionals to develop effective rules, contracts, and processes that offer flexibility,



Craig Weise (at head of table) holds a roundtable meeting to get input from contractors and construction managers on new rules for Ohio's construction reform initiative.

efficiency, and transparency for the good of all Ohioans."

Weise (pronounced wee-see) credits his education at Lawrence Tech with giving him the start he needed for a successful and varied career.

"The basic skills architecture students develop for designing buildings can easily transfer into other areas of the business or alternative career paths," he said. "Lawrence Tech prepared me to effectively analyze complex issues and develop creative concepts that address many seemingly disparate parts into a cohesive solution. Although I am no longer designing architecture, I am using those skills to design systems, processes, and contracts in a collaborative manner to address issues at an industry level in Ohio." □ *CWM*

SmithGroup design director wins architecture alumni award

Paul Urbanek, BSAr'81, BA'82, AIA, NCARB, LEED AP, design director and vice president at the Detroit office of SmithGroup, one of the largest architecture and engineering firms in the country, accepted the Distinguished Architecture Alumni Award at a Sept. 22 reception at Lawrence Technological University. He delivered a presentation about his work following the reception.

His design portfolio includes civic, commercial, academic, and cultural commissions for national and international clients. His work has been widely published and has received numerous awards at the local, state, and national levels. Recent design accomplishments include the state-of-the-art Clinical and Translational Research Building at the University of Louisville and the James Clarkston Environmental Discovery Center

at Indian Springs Metropark in Clarkston.

Currently Urbanek is the lead designer for FAW Group Corporation's new 4.7-million-square-foot research and development center in Changchun, China. His work overseeing the restoration and expansion of Eliel Saarinen's iconic Cranbrook

Museum of Art has been garnering rave reviews.

The selection committee noted that Urbanek is a true design leader whose passion for architecture is reflected in his creative problem-solving process, which has provided fresh viewpoints and new concepts for functionally appropriate and aesthetically exciting design solutions.

Previously he served as a design principal at Straub Associates and Harley Ellis Devereaux. □ *EP*



Paul Urbanek was presented the Distinguished Architecture Alumni Award by Dean Glen LeRoy of the College of Architecture and Design and Kim Lapinski, past chair of the Architecture Cabinet of the Lawrence Tech Alumni Association.

Humanities education helped lead Sauer to a career in finance

When Lawrence Tech started its humanities degree program almost 30 years ago, then-President Richard Marburger was eager to find students capable of proving its worth. He found what he was looking for in Matthew Sauer, BSHu'84, one of the program's first graduates.

"I was motivated to enter the humanities program in order to absorb the findings of all of the great thinkers in the world around me," Sauer recalled. "The ability to sample engineering classes alongside a curriculum of philosophy, political science, and mathematics created a foundation of education that has served me well.

"Dr. Marburger's vision of creating graduates able to study in a wide variety of post-undergraduate studies was very accommodating to students who were interested in the hard sciences as a bridge to business or law and not as a career."

Lawrence Tech's partnership with the Detroit Economic Club enabled Sauer to attend many of the organization's sessions, where he discovered his interest in business, which ultimately led to his career in finance.

He went on to earn his MBA from Duke University's Fuqua School of Business and began his professional career as a market specialist and financial analyst with the Federal Home Loan Bank Board in Washington, DC. He then became an examiner with the Federal Home Loan Bank of Indianapolis, where he honed an understanding of financial statements and financial institutions while dealing with the aftermath of the savings-and-loan crisis.

He worked as a portfolio manager and acquisitions analyst at Old Kent Bank and Trust in Grand Rapids, and Stoneridge Resources Inc. in Bloomfield Hills, and then spent 13 years at Oak Value

Capital Management in Chapel Hill, NC, where he was executive vice president, senior portfolio manager, and director of research.

In 2006, Sauer joined Ariel Capital Management LLC in Chicago and is now a senior vice president, portfolio manager, and member of the investment committee. He is also a trustee of Chicago's Adler Planetarium and serves on the board of Chicago SCORES, a nonprofit organization for at-risk students.

"The education I received at Lawrence Tech began to institute the disciplines of decision making and communication into my

development as a young adult," Sauer said. "The ability to come to a specific answer in the hard sciences – to daily discover another indisputable truth while unraveling the core of the nature of the world around us through physics and chemistry.

"However, as members of a society we must deal with other participants where truths are not as apparent, and the teachings of Shakespeare and Dickens allow us to work with others and understand our strengths and weak-



Matthew Sauer was back on campus in October to meet with his valued mentor, President Emeritus Richard Marburger.

nesses. The humanities program welded these concepts together for me and allowed me to work within a factual context while working with others." □ *CWM*

Walker graduates as first Donley Scholar

When Erica Walker, BSCvE'11, graduated from Lawrence Tech this spring she already had a job lined up as a project control engineer with Bechtel Corp. in Montvale, NJ.

It was a smooth transition after four years as Lawrence Tech's first Donley Scholar, an honor that earned the Detroit native a full-ride scholarship, room and board, all fees and books, and the opportunity to participate in mentoring and internship experiences.

Established as part of a \$5 mil-

lion gift by long-time Lawrence Tech donors Ed Donley, BME'43, and his wife, Inez, the Donley Scholars program is based on merit and financial need. It is open to any prospective or current Lawrence Tech student in engineering with a preference for a full-time student with racial, gender, or geographic diversity. It is renewable for all four years.

For Walker, a dean's list perennial, the support eliminated financial worries and allowed her to live on campus as she completed her

degree. "It gave me the opportunity to participate fully in college life," she said.

She was president of the Lawrence Tech chapter of the National Society of Black Engineers, and a member of both the American Society of Civil Engineers and Alpha Kappa Alpha sorority.

Along with attending leadership seminars and other professional development programs, Walker completed summer internships and co-ops with industry powerhouses like Walbridge, Bechtel National Inc., and DTE Energy.

Following her successful experience at Lawrence Tech as a Donley Scholar, Walker has set high goals for herself. She plans to become a certified professional engineer and may return to school for an MBA. One day she hopes to own a civil engineering firm. □ *EP*



Erica Walker (left) was joined at Commencement by her mentor, Regina Newberry, AEET'97, BSTe'98, MBA'11, who is also a sister in the Alpha Kappa Alpha sorority.

ePrize founder awarded honorary degree

Josh Linkner, founder and chairman of Pleasant Ridge-based ePrize, the largest interactive promotion agency in the world, received an honorary Doctor of Business Administration and delivered the address at Lawrence Technological University's 79th Commencement at Cobo Arena in Detroit in May.

Linkner is on a self-described mission to make the world more creative. He is a *New York Times* best-selling author of two books. "Disciplined Dreaming: A Proven System to Drive Breakthrough Creativity," which came out in February, helps organizations and individuals jump-start their imagination and build creative organizations.

ePrize provides digital marketing services for 74 of the top 100

brands. Over the last 13 years, the company has hired more than 1,800 professionals. Linkner led the firm from inception to being ranked the number one fastest-growing and number three overall promotion agency by *PROMO* magazine.

The company has offices in New York, Chicago, Los Angeles, Dallas, San Francisco, Atlanta, and London.

Linkner, who has a degree in advertising from Florida State University, was an early Internet marketing visionary, founding and building one of the first web marketing agencies, GlobalLink New Media, in 1995. He sold it in 1999, and founded two other successful technology companies.

Recently, Linkner launched his fifth company, the venture capital

firm Detroit Venture Partners. Along with business partners Dan Gilbert and Brian Hermelin, he is actively investing in early-stage technology companies to help rebuild the Detroit region through entrepreneurship.

He has been generous in

addressing Lawrence Tech students on numerous occasions about creativity and entrepreneurship.

Linkner is an accomplished jazz musician, regularly performing in clubs throughout the United States and Canada. For more about his role as a change agent for business creativity and to follow his blog, visit joshlinkner.com. □BJA



ePrize founder Josh Linkner delivered the address for Lawrence Tech's 79th commencement in May.

Career switch motivated by desire to give back to the community

As a youth growing up in Detroit, Donald Hutchison, AIMET'96, BSET'00, didn't view himself as college material.

When an uncle mentioned Focus: HOPE's then-new Fast Track training program, he enrolled in a six-week course to get a job as a

bank teller. It proved to be a life-changing decision for Hutchison, who followed up by going through Focus: HOPE's machinist training program, then the Center for Advanced Technologies, which led him to Lawrence Tech for a bachelor's degree and Kettering

University for a master's degree in manufacturing operations.

Two years ago, at the request of Focus: HOPE CEO William Jones, Jr., Hutchison returned to the Detroit-based organization as manager of the Machinist Training Institute after a 10-year career with General Motors. He doesn't regret his decision.

"General Motors gave me tremendous opportunities to excel in the engineering field, but over time my passion for the Detroit community grew to a point that I felt compelled to provide support in a more tangible way," Hutchison said. "I was motivated by a strong desire to give back to Focus: HOPE, an organization that has forever changed the course of my life, and by a desire to assist many of those in the Detroit com-

munity who are still struggling in their attempts to transition from the lower rungs of society to the economic mainstream."

Hutchison, now 40, recalls his student days at Lawrence Tech as anything but carefree.

"I was working full-time and raising a young family. I remember running to and from class in the evenings – even some Saturdays – trying to keep up with the demands of life, wondering if I could keep up the pace until graduation," he related. "I remember the look on my wife's face when I told her I was picking up an additional class in spite of the toll my schedule was already taking on both of us. At the time she was pregnant with twins.

"But we survived. These are examples I give to the young people I work with every day who are sometimes unfamiliar with the concept of making short-term sacrifices for the long-term benefit."

□CWM



Photo courtesy of Focus: HOPE

Donald Hutchison (right), manager of the Machinist Training Institute at Focus: HOPE, found that his education at Lawrence Tech opened doors for him as a professional.

Salamango sets sights on RobotTown education and research center

For most people outside the robotics industry, robots are something out of a sci-fi movie – futuristic, incomprehensible, and perhaps even a bit sinister.

Robotics expert Mark Salamango, MSCS'06, co-founder and president of RobotTown Inc., has a more earthbound view. He and his team are formulating an ambitious plan to establish a \$10 million robotics research consortium and education center – called RobotTown – where people can encounter robots at work in everyday settings.

“RobotTown is in the planning stages,” Salamango explained. “We have a business plan, a

vision, some partners, some potential sites, a Web presence, and a board of directors. We are actively searching for funding from the federal government, the state of Michigan, and commercial partners.”

Several sites, including the Michigan State Fairgrounds in Detroit, are under consideration as the home of RobotTown. Ultimately, the goal is to provide an environment where people of all ages can come to learn, play,



When Associate Professor CJ Chung organized the first RoboExpo at Lawrence Tech in September, he asked Mark Salamango to be his keynote speaker. Robotics student Chris Leclerc is in the background.

Phi Kappa Upsilon draws a crowd



More than 125 fraternity brothers of Phi Kappa Upsilon at Lawrence Tech gathered in June for their annual party at the Detroit Athletic Club. The oldest fraternity on campus was founded by Russell E. Lawrence, the founder and first president of the University. In addition to sharing many stories from their college days, the Phi Kaps heard about the latest developments on campus from President Lewis Walker and Vice President of University Advancement Stephen Brown.

test, create, socialize, innovate, discover, and share knowledge about robotics.

Salamango hopes to have a preliminary version of RobotTown in place by October 2014 as a showcase for guests at the Intelligent Systems World Congress at Cobo Center in Detroit.

“Our next steps are to shop the business plan around, get people excited enough to want to partner with us and invest in the concept,” Salamango said. “The thing is, if we don’t do it, another state will.”

Salamango, 38, has more than 20 years of experience in the robotics industry, with an impressive array of high-level projects to his credit. Prior to his current position at RobotTown, he was a partner with Troy-based 6 Zulu Inc. and worked at the U.S. Army’s Tank Automotive Research, Development and Engineering Center (TARDEC) and Tank Automotive and Armaments Command (TACOM).

“When I started my education at Lawrence Tech, my career was already in full swing,” Salamango recalled. “I was able to take all the experience I had from working in the private and government sectors and apply it to academic areas such as robotics and software engineering. In turn, I was able to apply the academic theory I was learning to my lab and other projects I was working on.”

Away from the workplace, Salamango is an accomplished guitarist and owner of his own recording studio, where he’s currently working on a new CD with his band, “Tall Dark and Jim.”

He’s into fitness, too. He did his first Triathlon last year and the Urbanathon and Marine Corps Leatherneck Mud Run this year. He and his wife, Lori, have two daughters. This fall, he was named to the prestigious “40 Under 40” list by *Crain’s Detroit Business*.

For more information about RobotTown, visit robbottown.org or follow RobotTown Official on Facebook. □CWM

ALUMNI NOTES

Alumni Notes

Alumni Notes includes news gathered from alumni, their families and friends, corporate news releases, and Michigan newspapers. Submissions received after the deadline for this issue will appear in the spring/summer 2012 issue. Use the form in this section to share news about you!

1933-1959

Ray L. Urban, BME'35, celebrated his 100th birthday this summer surrounded by family and friends at Oakmont Sterling Senior Living in Sterling Heights. He was born on July 30, 1911, in Pittsburgh and grew up in Hamtramck.

Ray was hired as a clerk in the Detroit post office in 1941, launching a lengthy career. He advanced to draftsman, supervisor, superintendent, and director of plant maintenance before retiring in 1975 as the U.S. Postal Service's first postal plant engineer.

Over the years, he was on the front lines in the mechanization of the postal

system, including high-speed letter sorting, ZIP code reading, automatic parcel sorting, and volume speed cancelers. He is perhaps best known as the designer of curbside mail drop boxes originally called the "Crazy Lady."

1960-1979

Alfred M. Bartick, BSEE'62, of Redondo Beach, CA, has won a U.S. patent for a "fuel/air mixture control device and method" that tests show can reduce fuel consumption for automobiles by 12 percent. The device takes the place of an exhaust-gas-oxygen sensor by using a substitute signal generator circuit that stimulates the engine control module to be more lean-running at highway speeds.

William A. Moylan Jr., BSCE'74, wrote an article on the value of membership in the Engineering Society of Detroit (ESD) in a recent issue of the organization's publication, *Technology Century*. Bill is a member of the University's Capital Campaign Steering Committee and a 1999 winner of the "Ray" Award, which recognizes alumni volunteers for their leadership and service.

1980-1989

Richard L. Fertell, BSEE'87, is the director of corporate quality and laboratory manager for Proteus Industries, a Mountain View, CA, firm that makes devices to handle and measure the movement of liquids. The Livonia native was featured in a recent article in the *Livonia Observer* about his career in metrology, the science of measurement.

Brian B. Byndas, BSME'88, is the Ford Taurus program manager for Ford Motor Co. Brian's career at Ford has revolved around component engineering and program management. His most recent task was sifting through a mountain of customer feedback on the 2010 Taurus, then systematically translating customer suggestions into production reality.

Stephen D. McCarthy, BSME'88, was appointed to the engineering team at Relume Technologies, an Oxford-based manufacturer of light-emitting diode (LED) products and smart grid control systems for outdoor lighting applications. He is responsible for leading Relume's new product engineering and R&D programs.

1990-1999

Christopher "Bob" Rayes, BSAr'92, BA'94, MA'09, was appointed a partner at Berkley-based SHW Group LLC, an educational architecture and engineering firm. Bob joined SHW Group in 2006 and serves as the firm's chief information officer.

Natalie A. Rankine, BSAr'95, BA'97, was hired in March as the new director of the Downtown Development Authority in Wyandotte. Natalie is also the city's special projects coordinator and continues in that role while taking the DDA director's position on a part-time basis.

Harry Hunter Jr., MBA'98, received a PhD in Industrial/Organizational Psychology from Capella University in Minneapolis. Harry is director of the Office of the State Employer/Employee Service program in Lansing and an adjunct professor in the Wayne State University School of Social Work.

Zack M. Ostroff, BSAr'98, GCertADP'09, owns and operates ZO Architecture in West Bloomfield and is currently finishing up his master's degree at Lawrence Tech. His 10-year-old firm, which specializes in creating barrier-free plans for the physically disabled, was featured in a recent article in the *Detroit Jewish News*.

2000-2011

Jason R. Arnott, BSAr'01, MA'04, is owner of Earth Environments LLC, a full-service design through construction firm in Romeo. Though just three years old, Jason's firm has already won three awards in *Detroit Home* magazine's annual recognition of outstanding projects in Michigan.

Jeffrey M. Roman, BSCvE'01, PE, was selected as the 2011 Engineer of the Year by the Florida Engineering Society, Calusa Chapter. Jeff is a principal and director of engineering at EnSite Inc. in Fort Myers, FL.

David M. Giroux, BSAr'02, MA'05, was promoted to associate at Integrated Design Solutions LLC in Troy. He also passed the construction documents technologist exam from CSI.

Garrett J. Polk, BSET'02, and Sherry Hosler were married in September at Sacred Heart Catholic Church in Bad Axe. Garrett is employed by Motor City MINI in Shelby Township.

Cuneshia C. Sanders, MBA'04, was hired as director of the Westover Job Corps Center in Chicopee, MA. A Detroit native, he was previously director of the Detroit Job Corps Center and the Flint/Genesee Job Corps.



Vincent Kaye celebrated his 76th anniversary as a Lawrence Tech graduate when he attended Jubilee Brunch this year.

VINCENT KAYE, BEE'35, believed to be the oldest living alumnus of Lawrence Tech, celebrated his 103rd birthday in September at Manoogian Manor Assisted Living in Livonia.

Born in Amasia, Armenia, on Sept. 24, 1908, he attributes his longevity to his happy marriage. "Marrying Rose was the best thing I ever did," he said of Mrs. Kaye, who died in 2002 after 67 years of marriage.

Vincent was four years old when he came to the United States with his mother and baby sister to join his father, who had fled war-torn Armenia earlier to avoid being conscripted in the opposing Turkish army. The family later settled in Highland Park.

He changed his surname from Keshishian to Kaye because it was easier to spell.

Lawrence Institute of Technology, as the school was then known, had just opened when Vincent transferred there from the University of Detroit. After graduation, he started a radio repair business. During World War II, he was an electrical engineer in charge of machine gun production for Kelsey Hayes Wheel Co. in Detroit.

Over the years, Vincent worked for the federal government, Ford Motor Co., and General Motors Corp. He worked on the team that built the first simulated spacecraft docking station for the U.S.

News For Alumni Notes

Use the space below to tell us about you or your fellow Lawrence Tech or DIT alums. Mail it to the Office of Alumni Relations, fax to 248.204.2207, or email alumni@ltu.edu. You may also submit Alumni Notes online at www.lawrencetech.net. Tell us about honors, promotions, marriages, appointments, and other activities.

New Address?

Name _____

Street _____

City State ZIP _____

Home Phone () _____

Email _____



Don A. Manfredi, MBA'05, joined Ann Arbor-based Coherix as vice president of the firm's automotive operations in the Americas. Don is also an adjunct professor in Lawrence Tech's College of Management.



Clarence M. Sevillian, CIMBA'05, is the new president and CEO of POH Regional Medical Center in Pontiac.

Clarence has been with Flint-based McLaren Health Care since 1998 and previously headed Doctors' Hospital of Michigan, also in Pontiac.



Habib I. Baydoun, BSEE'06, MSMSE'09, has moved to Costa Mesa, CA, to work in the Electrical Sensing and

Controls Division of a supplier to the aerospace industry. He will be working on flight deck control panels for airplanes, helicopters, and military jets.

Sean M. Simpson, BSME'07, is a senior consultant at the Troy office of Booz Allen Hamilton, a management consulting firm. He is also co-owner of Autobike LLC.

Jennifer K. Henriksen, MAR'08, is a registered architect in the Ann Arbor office of Quinn Evans Architects. She joined the firm in 1998 as an architectural intern.

Andrew J. Nielsen, BSAR'08, recently graduated from the U.S. Coast Guard Recruit Training Center in Cape May, NJ, and was promoted to the rank of seaman.

Andrew Maurer, BSME'09, married Allison Frownfelter in August. Andrew is an intellectual property intern at Howard & Howard Attorneys PLLC in Royal Oak and is pursuing a law degree at the Thomas M. Cooley Law School.

Nicholas J. Wallis, BSAR'11, married Kathryn O'Hara in July at St. Patrick's Church in Rockford. Nicholas is employed by S3 Architecture PLLC in Farmington.

Entrepreneurial lecture series continues through March



Salvatore Bonanno, BSME'69, speaks with a student after giving the first presentation in the 2011-12 Entrepreneurial Lecture Series at Lawrence Tech. The lecture series continues on Jan. 19 with a presentation by **Victor Saroki**, BSAR'79, BAR'80, followed by **Kit Tomkow**, BSME'90, on Feb. 16, and **Ali Siblani**, BSEE'90, on March 15. For more, go to www.ltu.edu/entrepreneurship and link to the lecture series in the left column.

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

In Memoriam

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.

Marvin E. Fawley, BEE'41, of Dearborn, Aug. 20, 2011. Mr. Fawley was a retired Ford Motor Co. employee. He was survived by two daughters.

Ulric Landenberger, BME'42, of New Paris, IN, May 17, 2011. He was survived by his wife, Elberta, two sons, and two daughters.

Maurice P. Whalley, Jr., BSME'43, of Hobart, IN, March 25, 2011. Mr. Whalley was a retired director of Propulsion Systems at the U.S. Army's Research & Development Command Center. He was instrumental in developing the world's first amphibious tank and also made significant contributions to the design and testing of the first lunar rover. Mr. Whalley was survived by his wife, Lenna, two sons, and a daughter.

John W. Krygier, BME'45, of Bloomfield Township, Jan. 21, 2011. Mr. Krygier retired from General Dynamics as manufacturing plant manager. He was predeceased by his wife, Janet, and son, John. He is remembered by two surviving daughters, 12 grandchildren, and 21 great-grandchildren.

Gordon T. Forsyth, BSChE'48, of Traverse City, Aug. 20, 2009. Mr. Forsyth was a retired chemical engineer in the electroplating division of Udylyte Corp./Occidental Petroleum Corp.

Charles F. Jacques, BSME'48, BSIE'51, of Montgomery, AL, March 22, 2011. Mr. Jacques retired in 1985 as a vice president at Ormet Corp. He was survived by his wife, Charlotte Stebbins, a son, and a daughter.

John W. Hansen, BSIE'49, of Rochester Hills, May 19, 2011. He was survived by three daughters and a son.

Ben O. Esch, BSChE'50, of Detroit, May 30, 2011. Mr. Esch was a retired Wayne County employee. He was survived by his wife, Judith, and two daughters.

Walter Melenofsky, BSChE'50, of Redford, May 12, 2011. He was survived by his wife, Ellen, a son, and a daughter.

Robert A. Theisen, BSBA'50, of Farmington, July 17, 2011. Mr. Theisen was the founder of Robert Theisen Homes Inc. in Farmington. He was survived by his wife, Genevieve, two daughters, and a son.

Frank J. Penozo, BSIE'51, of Hockessin, DE, May 29, 2011. Mr. Penozo had a 26-year career in Dupont's Engineering Service Division prior to starting his own business, Pen Associates Inc. He was survived by his wife, Marion, and five sons.

William E. Ketel, BSEE'52, of Royal Oak, April 15, 2010. A retired electrical engineer at Chrysler, Mr. Ketel was survived by a son, **William E. Ketel II**, BSEE'73.

Robert R. Kuhnert, BSIE'52, of Adrian, Feb. 6, 2011. A retired Johnson Controls employee, Mr. Kuhnert was a 1973 Alumni Achievement Award winner. He was survived by his wife, Rose.

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

Frank H. Bell, BSME'54, of Plymouth, March 3, 2011. Mr. Bell was a retired DTE Energy employee. He was survived by two daughters and a son.

Dennis E. Brown, BSChE'54, of Kokomo, IN, Nov. 15, 2008. Mr. Brown was chief metallurgist at Chrysler for more than 30 years. He was survived by his wife, Mary, two daughters, and two sons.

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.

Theodore A. Kamrath, BSEE'54, of Rochester, March 9, 2011. Mr. Kamrath was employed by Chrysler Corp. for 40 years. He was survived by two sons and two daughters.

George S. Veach, AIST'54, of Wayne, April 9, 2011. Mr. Veach was survived by his wife, Barbara, two sons, and two daughters.

Edward C. Curme, BSIE'57, of Novi, Oct. 11, 2010. A retired manufacturing representative, Mr. Curme was survived by his wife, Mary Jane, a son, and a daughter.

Earl M. Parrish, ARACT'57, of Warren. Mr. Parrish was a retired tinsmith at the General Motors Tech Center. He was survived by his wife, Marilyn, three daughters, and a son.

Robert G. Serruys, AEET'57, of Shelby Township, April 21, 2011. A retired engineer at Chrysler Corp., Mr. Serruys was survived by his wife, Margaret, two sons, and two daughters.

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.

John R. Koch, BSIM'59, of Venice, FL, April 9, 2011. He was survived by his wife, Jacqueline.

David A. Adams, AMT'60, of Plymouth, July 11, 2010. Mr. Adams was a retired supervisor of manufacturing engineering at General Motors. He was survived by his wife, Mary Ann, and three sons.

Ralph A. Modad, BSIM'62, of Houston, July 30, 2011. Mr. Modad was an acting city attorney in Highland Park before moving to Houston where he maintained a law practice. He was survived by two sons.

Robert J. Schlaff, BSIM'62, of Denver, June 12, 2011. After working in the financial industry for several years, Mr. Schlaff moved to Denver where he owned and operated Tomorrow's Body, a day spa. He was survived by two sisters and a brother. Mr. Schlaff was an active member of the Phi Kappa Upsilon fraternity at Lawrence Tech.

Laurence S. Stevens, BSIM'62, of Brighton, July 17, 2011. Mr. Stevens retired in 1997 after 32 years as a middle school teacher in Taylor. He was survived by his wife, Tamara, two sons, and two daughters.

Duane L. Franz, AMT'63, of Farmington, May 31, 2011. He was survived by his wife, Norma, a son, and a daughter.

Robert M. McSweeney, BSEE'63, of Farmington Hills, July 17, 2011. Mr. McSweeney spent more than 30 years with Michigan Bell's engineering department and also worked for Cellular One. He was survived by his wife, Emily, and three daughters.

James A. Pershon, BSEE'63, of Tucson, AZ, March 15, 2011. An IBM retiree, Mr. Pershon was survived by his wife, Sue, a son, and a daughter.

Anthony G. Clor, Jr., AEET'64, of Highland, March 7, 2011. He was survived by two sons and a daughter.

Eugene A. Kucharek, AEET'67, of Sterling Heights, Dec. 21, 2010. Mr. Kucharek was an electrical engineer for General Motors for 33 years. He was survived by his wife, Karen, and three children.

Ronald W. Koller, BSIM'68, of New Boston, Sept. 22, 2009. A Ford Motor Co. retiree, Mr. Koller was survived by his wife, Donna, a son, and a daughter.

Thomas G. Murdock, AIST'69, BSIM'73, of Birmingham, May 9, 2011. Mr. Murdock was one of the owners of Industrial Strainer Co. in Plymouth. He was survived two children.

Rodney A. Paulson, BSIM'72, of Farmington, May 5, 2010. Mr. Paulson was a retired auto salesman.

John B. Bortz, BSIM'73, of Garden City, April 18, 2011. A Brasscraft employee, Mr. Bortz was survived by his wife, JoAnn, a daughter, and two stepdaughters.

Lawrence A. Pachla, BSCh'73, of Brooklyn, MI, Aug. 25, 2011. Dr. Pachla received his PhD in analytical chemistry from Purdue University and spent more than 25 years in the pharmaceutical industry at Parke Davis, Omnicare, and Sanofi Research. He was survived by his friend and former wife, Barbara DeCastro.

Everett W. Robinson III, BSIM'73, of Oak Park, Dec. 15, 2010. Mr. Robinson was a General Motors retiree.

James A. Stone, BSIM'74, of Novi, March 17, 2011. He was survived by a sister.

Michael P. Ugorcak, Jr., BSAr'74, BSBA'76, BA'76, of Detroit, April 27, 2011. Mr. Ugorcak was a long-time attorney and architect for Detroit Public Schools. He was survived by his wife, Debra.

Nadine E. Gibbs, BSAr'77, BA'78, of Bloomfield Township. She was survived by her father, two brothers, and a sister.

Daryl M. Kocks, BSAr'81, of Saginaw, June 5, 2011. Mr. Kocks worked for various engineering companies and was responsible for the design of many public buildings and churches in the Tri-Cities area. He was survived by his wife, Sandy, and a son.

Guy J. Mattiacci, ACET'83, of Roseville, July 9, 2011. Mr. Mattiacci was survived by his wife, Rose, and two children.

John Sherlock, Jr., BSME'86, of West Bloomfield, Oct. 8, 2010. A retired Chrysler employee, Mr. Sherlock was survived by his wife, Josephine.

Joseph Alberga, BSEE'89, of Allen Park, May 7, 2011. He was survived by his mother and a brother.

John F. Fleming, BSEE'90, of Oak Park, June 29, 2011. Mr. Fleming was survived by his wife, Marsha, and two sons.

Bernard Howard, MBA'93, of Farmington Hills, Aug. 24, 2011. He was survived by his wife, Phyllis.

Mary R. Braga, MBA'94, of Providence Forge, VA, June 30, 2011. She was survived by her husband, Michael, two sons, and a daughter.

James D. Green, BSAr'00, of Lansing, Dec. 23, 2008.

DIT IN MEMORIAM

Richard H. Parsons, BSME'38, of Mount Pleasant, Feb. 3, 2011. Mr. Parsons was a retired senior manufacturing engineer at General Motors Corp.'s Saginaw Steering Gear Division. He was survived by his wife, Pauline, and two daughters.

George F. Sinning, BSME'41, of Novi, Sept. 4, 2011. He was survived by a son and a daughter.

Kenneth L. Wheeler, BSEE'53, of Plymouth, Aug. 16, 2011. Mr. Wheeler was employed at Burroughs Corp. (now Unisys), where he did top-secret work for the U.S. government. He later worked at Chrysler on the missile that carried the first American into space. He was survived by his wife, Agnes, three daughters, and two sons.

Jack B. Fisher, BSME'55, of Sarasota, FL, Aug. 12, 2010. He was survived by his wife, Elsie.

Wallace W. Burns, BSIM'57, of St. Clair, May 23, 2011. He was survived by his wife, Ruth, and four sons.

David G. Thomas, BSBA'59, of Farmington Hills, May 18, 2011. A retired DTE Energy employee, Mr. Thomas was survived by a son and a daughter.

Reuben D. Little, BCvE'79, of Detroit, March 24, 2011.

THE LAWRENCE TECH FAMILY

Esther Gordy Edwards University Corporation Member



Esther Gordy Edwards, 91, founder of the Motown Historical Museum and sister of Motown founder Berry Gordy, Jr., died on Aug. 24, 2011, at her Detroit home. She had served as a member of the Lawrence Tech Corporation since 1984.

As a Motown executive in the company's early years, Mrs. Edwards rode along with the young acts on the Motown Revue bus tours as they traveled through often-dangerous conditions in the South in the early

1960s, according to her obituary in *The Detroit News*.

Mrs. Edwards was especially active in Stevie Wonder's career when he was a minor, helping him set up tutors, manage his money, and enroll in the Michigan School for the Blind. Another famous singer, Smokey Robinson, worked alongside her as a vice president at Motown.

Among many honors over the years, Mrs. Edwards received the Detroit Urban League's Distinguished Warriors Award, the National Community Service Award from the National Association of Business and Professional Women's Clubs Inc., and the Business Achievement Award from PUSH, a social justice movement founded by the Rev. Dr. Martin Luther King, Jr.

Lee Kesh Longtime Tech Advisor to Students



Lab Technician Lee Kesh, who provided fabrication and other shop services to Lawrence Tech students and faculty for some 30 years, and who continued to serve as an active volunteer in that capacity, died on May 1, 2011, at age 86.

President Emeritus Richard Marburger, who with his late wife, Mary, knew Mr. Kesh and his wife for 60 years, said that "Lee would do absolutely anything to help the students and the University. He did this without any fanfare." Mr. Kesh also provided invaluable assistance to many SAE racing teams.

Dr. Marburger was instrumental in hiring Mr. Kesh to run the mechanical engineering shop that eventually evolved into today's Fab Lab. "Lee also provided shop services to the Colleges of Arts and Sciences and Architecture and Design by fitting in their needs with work he was doing for the College of Engineering," Dr. Marburger said.

Mr. Kesh, who was born Levon Keshishian, was survived by his wife, Dickie, and a daughter.

THE LAWRENCE TECH FAMILY

Benjamin C. Maibach, Jr. Former University Trustee



Benjamin C. Maibach Jr., 91, a trustee of the University from 1982 to 1990 and a member of the University Corporation from 1990 to 2004, died on Sept. 24, 2011. At the time of his death, he was chairman emeritus of Barton Malow Co.

Mr. Maibach joined Barton Malow, then a small Detroit-based general contractor, in the 1930s. His rise through the ranks was rapid, and he is credited with growing the company into one of the major construction

services firms in the United States and the largest in Michigan.

Although he retired from active management in the early 1980s, Mr. Maibach was a familiar figure at Barton Malow's corporate headquarters and continued to serve on the company's board of directors until 2006. In all, his tenure at Barton Malow spanned 68 years.

Mr. Maibach was preceded in death by his wife, Lorene. He was survived by eight children.

James O. Trew, Sr. Former Director of Admissions



James O. Trew, Sr., a professional baseball player and player/manager turned public school teacher/coach who completed his academic career directing admissions and later, student services, at Lawrence Tech, died April 27, 2011, at age 89.

Early in his career, Mr. Trew signed and played briefly with the Chicago White Sox. From 1946 to 1954, he played and managed minor league teams for the Chicago Cubs before becoming a scout for the Cincinnati

Reds and the Detroit Tigers. Two of the players he signed, Jim Northrup and Willie Horton, were members of the Tigers' 1968 world championship team.

As a young man, Mr. Trew received football and academic scholarships to attend Michigan State University as an undergraduate, later earning his master's degree from the University of Michigan. He was an airman in the Army Air Corps during World War II, later rising to the rank of lieutenant colonel in the U.S. Air Force.

Mr. Trew taught English literature and history and coached baseball and football in the Detroit Public Schools for 20 years, winning numerous championships along the way.

Mr. Trew was survived by his wife, Dorothy, who served as secretary to former Lawrence Tech president Wayne H. Buell; a son, **James O. Trew, Jr.**, BSBA'77; a daughter, and two stepdaughters.

Rochelle Martin Professor of Architecture and Design



Professor Rochelle Martin, who taught a wide range of architecture and design courses since joining the Lawrence Tech faculty in 1986, died on Oct. 8, 2011, at age 75.

"Rochelle Martin was a dedicated teacher and scholar. She embodied the theory part of our University's motto, theory and practice, encouraging her students to engage in 'critical practice,'" said Glen LeRoy, dean of the College of Architecture and Design.

"Her students loved and respected her. They won many highly significant awards, assisted by her patient guidance. She will be missed."

Dr. Martin served on numerous University and college committees, as well as many thesis juries, and founded the University's Tau Sigma Delta chapter. She enjoyed researching and writing about the impact of film media on architecture.

She earned a bachelor's degree in education and a master's degree in history from Wayne State University before switching her career path with a bachelor's degree in architecture from Lawrence Tech in 1977.

Dr. Martin earned her doctoral degree in architecture from the University of Michigan in 1986.

She is survived by her daughter, Marilee.

Christopher Piggott Campus Safety Officer



Christopher Piggott, a campus safety officer for more than 25 years, died of leukemia on June 21, 2011, at age 59. Mr. Piggott joined the Lawrence Tech staff in 1985 and was the senior sergeant on the day shift.

In December 2009, Mr. Piggott was selected as Staff Member of the Month. "No matter what time it is, if Chris is on duty he responds quickly and cheerfully to assist myself and others," instructional technology staff member Cliff Johnson

said at the time.

Mr. Piggott retired from the U.S. Army with the rank of staff sergeant after serving in Vietnam, Okinawa, Korea, and stateside. While in the Army, he served in the Air Defense Artillery and the Military Police. He was awarded the Bronze Star for meritorious service for his actions in Vietnam.

Mr. Piggott was survived by his wife, Taeyon; a son, **Timothy**, BSBM'04; and a daughter, Jean. Burial was in the Great Lakes National Cemetery in Holly.



Physics Assistant Professor Joe Zhou demonstrates the optical tweezers setup built by student Jason Miller as part of his senior project. The tweezers utilize optical forces from a laser beam to manipulate cell structures.

REPORT TO INVESTORS

FROM THE PRESIDENT



On Homecoming Day, President Lewis Walker congratulated the winners of the first Quidditch championship game, Matt Polhemus, Adam Franzel, Tom Stellmach, and Brian Game of the Blue Devil Troopers.

On August 30 the faculty, staff, and administrative team joined me in welcoming Lawrence Tech's newest class of some 300 freshmen. The Convocation ceremony was held on the quadrangle adjacent to the University Technology and Learning Center. The newly mown grass and young trees in the quad blazed bright green and campus buildings shone in the bright afternoon sun.

There is always an aura of excitement at Convocation. The new students bring a sense of enthusiasm and high energy. Their upbeat anticipation is contagious and to experience it is one of the best things about working here at our great university.

Our Convocation keynote was entrepreneur and alumnus Donald Stevens, BSAr'92. As president of his Virginia-based company, he's pioneering the use of panelized light-gauge steel framing and high-strength stucco building systems to create cost-effective housing now in use throughout the world. And as the founder of the nonprofit organization Reconstruction Efforts Aiding Children without Homes (REACH), he has

helped to provide new housing for the victims of the 2004 tsunami in Southeast Asia and the 2010 earthquake in Haiti.

Don urged our new freshmen to find something they are passionate about when looking for a career.

Being passionate about what we do has always been relatively easy for those of us who labor for and support Lawrence Technological University. With your help we're making a positive dif-

ference in the lives of our students, and by extension their families, communities, state, nation, and as Don aptly illustrates, even our world.

As Lawrence Tech prepares to commemorate the 80th anniversary of its founding in 2012, I can report record progress in our capital campaign, as well as significant academic program growth and facilities development. Examples abound in the reports of the administrative team that follow on the next few pages.

Even in the lackluster economy that continues to plague Michigan, the recruitment of our students and graduates by employers is up. Over 80 percent of our new graduates reported having jobs by Commencement and the number of companies interviewing students for new jobs grew more than 50 percent this year over last.

Lawrence Tech is again ranked a top tier university by *U.S. News and World Report*, we've again been named a "Best in the Midwest" institution by the *Princeton Review*, and the news still resonates from *Bloomberg Businessweek's* 2010 survey that concluded that the return on tuition investment for Lawrence Tech undergraduates is tops in the Metropolitan Detroit area.



During the inaugural Athletic Hall of Fame ceremony on Oct. 1, President Walker helped Herman Pett of the 1950-51 basketball team in to his Hall of Fame blazer.



In July, President Lewis Walker presented an LTU sweatshirt to President Lu Guanzhong of the Shanghai Institute of Technology when they signed a five-year cooperative agreement to facilitate student and faculty exchanges.

Clearly, Lawrence Tech continues to progress toward the vision described in the strategic plan developed by the campus community: *To be a pre-eminent private university producing leaders with an entrepreneurial spirit and global view.*

So, how do we keep advancing toward pre-eminence?

You may be aware that over the past year we engaged a highly respected national higher education consulting firm, the Art & Science Group LLC, to examine Lawrence Tech's programs, opportunities, and promotional message. The goal is to improve our recruitment of undergraduate students.

The University's competitive environment was examined and current and prospective students were surveyed, both those who ultimately matriculated and those who did not. A series of recommendations were developed that have been endorsed by the Board of Trustees and that we, with involvement of the entire University community, have begun to carry out.

Broadly, the results of Art & Science's study affirmed that in order to assure Lawrence Tech's future viability, we must evolve from being a locally convenient, largely commuter, largely part-time student institution to one that is a regional destination attracting full-time FTIAC (first time in any college) students.

This does not mean that we'll abandon the commuting students or educational programs for working adults and graduate students that have so long distinguished Lawrence Tech, but it recognizes that for optimum stability and planning, Lawrence Tech needs the benefits afforded by full-time residential students – students likely to stay with us for a minimum of four years and steadily pursue their educational goals without interruption.

Accordingly, the strategy set forth is to focus on our historic roots and competitive position as a technological university providing “cutting-edge technology and beyond.” This means strengthening our leading-edge bachelor's programs, developing new ones where it makes sense to do so, and making sure that our curricula, the teaching technologies for faculty and students, and other resources are best in class. The strategy also encompasses improving student life and the 24/7 campus experiences that active, involved, exceptional students increasingly seek.

Good progress in expanding our student life initiatives was made this year when Lawrence Tech was accepted into the National Association

of Intercollegiate Athletics. The rollout of several new varsity athletic teams brought a sense of excitement and spirit to campus, and we advanced plans to build additional housing.

An entire week of activities for students, alumni, and others in the Lawrence Tech family culminated on October 1 with the first Homecoming in many years. Much of the campus was swathed in Lawrence Tech blue and white as departments and housing units vied for “best decoration” awards. I was especially pleased to welcome members of our 1950–51 basketball team and their families. Sixty years ago these talented players advanced to the National Invitational Tournament when it was considered the nation's leading intercollegiate tournament. This year they were among the inaugural honorees in our new Athletic Hall of Fame.

Few need to be reminded of the challenges we all have seen over the past few years as a result of an economy that hit so many so hard. Lawrence Tech has not been immune to those challenges. Many of our students have been forced to “stop-out” of school or reduce the number of classes they take due to job losses or increased job demands at their thinned-out workplaces. As a result, revenue from Lawrence Tech's primary source of income, tuition, was hard hit.

I've reported to you previously that the University took several actions to stabilize our fiscal condition, similar

REPORT TO INVESTORS

to those taken by many other organizations throughout Michigan. Raises were suspended over the past three years; employee retirement matching was suspended indefinitely; staffing levels were frozen; and program budgets were tightened. Through those tough times, our committed faculty and staff continued to work hard so that our students can succeed.

Today, thanks to the cooperation of the entire Lawrence Tech community, I can cautiously report that we've weathered the storm. Our budget is balanced and we've even accrued a surplus. The Trustees approved merit increases and we were able to offer some modest raises this fall.

At their June 30 meeting, the University's Board of Trustees unanimously approved a plan by which I will continue to serve as president and chief executive officer of the University through June 30, 2012. Beginning on July 1, 2012, I will serve as chancellor of the University through June 30, 2013, reporting directly to the Board of Trustees and carrying out duties as mutually agreed upon with the executive committee.

The Board has appointed a committee representing the campus community to identify

candidates through a national search for a new president and chief executive officer with the objective of filling the position by July 1, 2012.

Even as Lawrence Tech prepares for this transition, our University community has many important initiatives under way, and it is my intent that the momentum and tremendous progress we're making will continue unabated.

During my 18 years of service here, first as provost and now as president, I've participated in and often championed the expansion of curriculum and facilities. However, as I've pointed out before, it is the people of Lawrence Tech – the faculty, staff, and most importantly its students – who truly make Lawrence Tech a premier institution of higher learning – a pre-eminent university. Their unwavering pursuit of excellence has been translated into audacious

goals, and these goals continue to be achieved.

The "Theory and Practice" motto that has long distinguished Lawrence Tech is very much a part of who and what we are today. Since our founding, there has been an expansion and continuous improvement of the University's curricula, of the methodologies of intellectual development, and of our facilities, all in an effort to better serve our students in their educational pursuits. Now with over 100 degree programs from the associate through the doctoral levels, Lawrence Tech is a comprehensive university providing students with extraordinary growth and development opportunities.

As the University continues to focus on student accomplishment and success, the support and monetary contributions of alumni and friends

are increasingly vital.

The need is great. More scholarship support for students is essential. The maintenance and improvement of laboratory, studio, and classroom space provides challenges, as does assuring the ability to attract and retain quality faculty.

Nonetheless, throughout my presidency and long before, Lawrence Tech's supporters have risen to the challenge. I know that you will again, and I am forever grateful for your passion for Lawrence Tech and your generous support.

Lewis N. Walker
President and CEO



At this year's student celebration of Eid, a Muslim holiday that marks the end of Ramadan, President Lewis Walker and Provost Maria Vaz spoke with Saudi Student Union members Laith Alsunni and Hossam Alnassar.

REPORT TO INVESTORS

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Mathew A. DeMars,
BSME'78
Chief Operating Officer, The Vehicle Production Group LLC



Douglas E. Ebert
Former Chief Operating Officer, Cranbrook Educational Community



Raymond R. Khan,
BSEE'70
Former Senior Vice President, CIO, Blue Cross/Blue Shield of Michigan



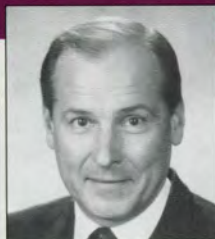
Marcy Klevorn
CIO, Ford of Europe



Larry A. Lawson, BSEE'80
Executive Vice President and General Manager, F-35 Program, Lockheed Martin Aeronautics Co.



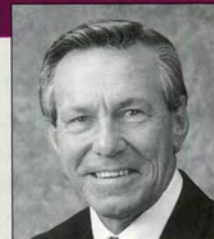
Larry D. Lyons
Former Vice President, Car and Minivan Product Team, Chrysler Group LLC



Howard B. Padgham
Former Vice President, Advanced Manufacturing Engineering Power Train, Chrysler Group LLC



John G. Petty, BSME'65
Former Director, Fox Vehicle Program, General Dynamics Corp.



Lloyd E. Reuss
Chairman of the Board, Lawrence Technological University; Former President, General Motors Co.



Mark C. Roualet
President, General Dynamics Land Systems; Vice President, General Dynamics Corp.



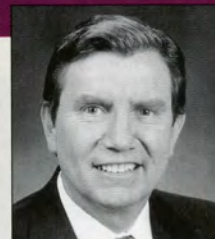
Barbara Samardzich
Vice President, Product Development, Ford of Europe



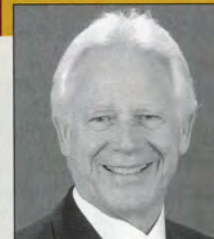
Victor A. Saroki,
BSAr'79, BAR'80
President, Victor Saroki & Associates Architects, PC



John G. Smith
President and CEO, Ross Controls



David B. Wohleen
Former Vice Chairman, Delphi Corp.

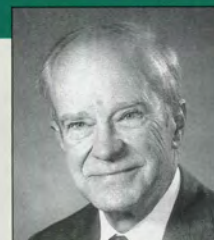


Ex officio
Lewis N. Walker
President and CEO, Lawrence Technological University

ADVISORY MEMBERS OF THE CORPORATION



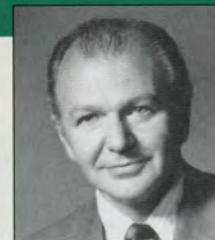
Richard H. Cummings
Former Senior Vice Chairman, NBD Bank and NBD Bancorp, Inc.



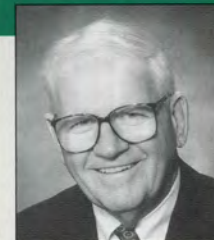
Edward Donley, BME'43
Former Chairman, Air Products and Chemicals, Inc.



William D. Innes,
BSME'53,
Former Executive Vice President, Ford Motor Co.



Julius L. Pallone
President, J.L. Pallone Associates



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

The Board of Trustees and the entire Lawrence Tech community were saddened by the death of Esther Gordy Edwards on Aug. 24, 2011 (*see page 36*). Ms. Edwards served with distinction as an advisory member of the Corporation since 1984. Her leadership was appreciated and will be sorely missed.

FROM THE PROVOST



Maria Vaz

Perhaps the best news over the past year for Lawrence Tech graduates and students who are in or about to enter the workforce is the fact that there are selected bright spots in Michigan's economic picture. Over 200 employers recruited on campus this past year, one of the highest numbers in the past eight years. The three historically largest employers of Lawrence Tech graduates, Ford, Chrysler, and General Motors, reinstated their recruiting efforts, and among their early visits was Lawrence Tech.

Moreover, not only are Lawrence Tech graduates in strong demand, they're generally paid better, too. That point was affirmed by last year's *Bloomberg Businessweek* survey that revealed Lawrence Tech undergrads earn a return on their tuition investment that ranks in the *highest* 30 percent of *all* U.S. universities and highest of any college or university in the metropolitan Detroit area.

The University has been very aggressive in developing revised or new degrees and "fast track" certificate programs that anticipate new opportunities in the workforce and emerging areas of economic growth. Those added this year include a Bachelor of Arts in Architectural Studies and a PhD in Civil Engineering, both developed with input from industry. The new Bachelor of Science in Robotics Engineering and Bachelor of Science in Biomedical Engineering Technology programs welcomed their first students this fall. Both are among the first such programs in the entire nation.

A "laboratory in your lap" is how someone jokingly but quite accurately described Lawrence Tech's personal computer initiative. This past fall was the 10th consecutive year that every undergraduate student received a new high-end laptop or tablet computer loaded with the professional software required for their major. This package has a retail value that in many cases approaches \$15,000 but we cannot overemphasize the convenience and benefit it provides students. Lawrence Tech remains unique in Michigan and rare nationally in supplying computers and all the specialized software programs needed for academic success.

Lawrence Tech received a full 10-year re-accreditation, the maximum period possible, from the Higher Learning Commission of the North Central Association of Colleges

and Schools. The full report of the visiting team can be viewed at www.ltu.edu/provost_office.

Among other areas of importance:

■ Great new facilities:

Among enhancements to academic facilities this year was the acquisition of the region's only environmental scanning microscope (a modern marvel providing maximum magnification of 500,000x that can reveal details less than a nanometer in size); an MTS apparatus to investigate the elastic, plastic, and other properties of advanced composite materials; the unique, new makeLAB in Architecture that allows CAD fabrication of architectural fixtures and models; and new video production and editing equipment installed in the University Media Studio for use by media communication students. Several new labs supporting life sciences instruction and research were dedicated.

■ Prominent campus guests:

Campus visitors over the past year included Michigan

Governor Rick Snyder and Members of Congress Gary Peters and Sander Levin. Numerous other state and local leaders have visited to learn of the creative work being done by students and faculty in alternative energy, sustainability, and in finding new uses for innovative materials. Lawrence Tech's role in aiding Michigan's recovery is cited by many of these leaders at the national and regional level.

■ Recovery Starts Here:

Over 650 recovery grants have been awarded to current and new students who had been displaced from their jobs over the past several years. This effort expanded by 200 additional awards during this past year. We remain committed to supporting students and strive to be innovative in our approach to finding additional funds to offset the cost of attendance.

Provost Maria Vaz introduced Gov. Rick Snyder in October when he delivered a major policy address on the state's infrastructure needs in Lawrence Tech's Center for Innovative Materials Research.



■ Rollout of the RFoC:

Real Food on Campus (RFoC) has been a great success. This first year saw an increase of some 200 students per meal participating. This was also the first year when meals were provided on weekends and during times when classes were cancelled due to weather. A student committee has advised the University about progress. With student assistance, over 4,000 surveys went to the entire campus community soliciting comments and ideas. We are continuing efforts to further improve the RFoC concept.

■ Blue Devil Athletics:

Lawrence Tech was accepted into the National Association of Intercollegiate Athletics (NAIA) to implement a full sports program, resulting in a number of improvements to sports and recreational facilities. This fall, men's soccer, women's volleyball, and men's bowling teams were launched. In 2012-13, women's soccer, men's and women's cross country, men's and women's basketball, and men's

lacrosse are expected to begin. Our existing men's hockey team will continue in the American Collegiate Hockey Association at the varsity level.

A new natural grass soccer field was developed at "the Point" that will soon be graced with a new score board.

Homecoming week started on September 26 and culminated with many exciting activities, including soccer, volleyball, and hockey games. The Don Ridler Field House was renovated over the summer. This all signals an exciting return for Lawrence Tech's athletics.

The NAIA promotes Champions of Character through the attributes of integrity, respect, responsibility, sportsmanship, and servant leadership – a mission that fits seamlessly with Lawrence Tech's Leadership Program goals. The 1950-51 basketball team, 1938 football team, and three beloved former athletic directors

were the charter inductees



Provost Maria Vaz stopped during a tour of the Structural Testing Center in February to talk to project engineers Neil Waraksa, BSCvE'10, and Craig Przytulski, BSCvE'10, about their work.

were the charter inductees into Lawrence Tech's new Athletic Hall of Fame. The story appears elsewhere in this magazine.

Each year, Lawrence Tech sets tuition rates with the goal of providing students with the best possible learning experiences. We strive to assure that the investment in tuition remains the excellent value reflected in the Bloomberg Businessweek survey. The cost of attending Lawrence

Tech remains among the lowest of Michigan's private colleges and universities as well as among the lowest of America's great technological universities. The size and number of scholarships for students continues to grow, and both the Offices of Financial Aid and Business Services work diligently to help students access all possible forms of aid available.

Lawrence Tech's Board of Trustees approved an increase in tuition and fees for summer and fall 2011 of 6 percent. At

the same time, funds available for financial aid have been increased by 18 percent. More graduate scholarships and grants will provide funds to students who lost their tuition reimbursement and/or the Michigan Tuition Grant.

We are grateful to Lawrence Tech alumni and other donors whose gifts are helping us reduce the financial burden on our students through scholarships and other aid.

Year by year, Lawrence Tech continues its progress toward becoming a pre-eminent private university producing leaders with an entrepreneurial spirit and global view. With students at the center of all that we do, we strive to continue to enhance campus life, academic offerings, and career opportunities.

Maria Vaz

Maria J. Vaz
Provost



In March, Provost Maria Vaz appeared on the cover of EdTech magazine with Executive Director of Information Technology Service Delivery Tim Chavis and Help Desk Director Charlene Ramos. They were featured in an article about how Lawrence Tech's innovative laptop program prepares students for entering the workforce.

REPORT TO INVESTORS

FROM THE VICE PRESIDENT OF UNIVERSITY ADVANCEMENT



Stephen Brown

Lawrence Tech experienced an exceptional year in fund-raising. Despite the sluggish economy, particularly in Michigan, and a relatively poor philanthropic climate, your University received over \$13.2 million in new gifts and pledges in fiscal year 2010–11, the largest amount ever.

In terms of total philanthropic and government capital activity, we reached \$17.7 million in total, Lawrence Tech's second best year ever. This says that we have an incredibly loyal donors and alumni who continue to support this great institution even during tough times. As we go to press, our "Proud Heritage, Bold Future" comprehensive capital campaign now stands at \$66.5 million in gifts and pledges toward our goal of \$75 to \$100 million, despite the fact that we are only halfway through the campaign timetable.

While we are encouraged by these results, Lawrence Tech, like all organizations,

has seen a reduction of cash gifts in favor of estate gifts and/or bequests. This has impacted our ability to begin construction as soon as we might like on our desperately needed new building serving the College of Engineering and related programs.

We were particularly appreciative of the \$11 million commitment from former student A. Alfred Taubman to name the new facility the "A. Alfred Taubman Engineering, Life Sciences, and Architecture Complex." His commitment consists of a cash gift over three years and an estate gift of \$10 million with a challenge grant that requires that we raise an additional \$20 million over the next three years. While our work is cut out for us, the loyalty and commitment of those donors and alumni who we have seen to date gives us considerable optimism that we will achieve this goal and raise the necessary \$55 million to complete this project.

Despite the tight budgets that our faculty and staff worked within over the last three years, they continue to support the campaign to the best of their ability. Our campus family has committed in excess of \$800,000 toward the campaign so far, with annual participation rates in excess of 63 percent.

Lawrence Tech's annual golf tournament, the Tech Invitational, continues to be a success and grow in stature. Over the last four years, it has raised nearly a quarter of a million dollars to support student projects and scholarships.

Due to the continued collaboration between faculty and the Office of University Advancement, some \$14 million in research projects and grants are underway with another \$5 million in grants submitted and pending for this fiscal year alone.

It is gratifying to see a number of legislators, government agencies, companies,

and others visiting our campus and exploring possible areas of collaboration between the public and the private sectors. We have seen significant increases in funding for industry-sponsored student projects and competitions in both the College of Engineering and the College of Architecture and Design.

Over the past year, Lawrence Tech's Economic Development and Corporate and Foundation team, working with faculty, has been actively involved with many state and federal agencies. We are pursuing projects with the Michigan Economic Development Corporation, Michigan Department of Transportation, and the Governor's office. State and federal legislators visiting campus over the past year include Governor Rick Snyder, State Senator Vince Gregory, State Representative Rudy Hobbs, Congressmen Gary Peters and Sander Levin, and representatives from the offices of Senators Carl Levin and Debbie Stabenow. We have partnered with TARDEC, TACOM, the U.S. Army, and others on new initiatives with carbon fiber applications.

All in all, we have had a very successful year in our fund-raising endeavors and are very encouraged by the results and prospects for the future.



Vice President Stephen Brown welcomed A. Alfred Taubman to the stage during the announcement in May of Taubman's challenge grant to help build the proposed A. Alfred Taubman Engineering, Life Sciences, and Architecture Complex.



At Commencement in May, Ben Graf (left), Jason Falenski, Chris Nichols were the first students to receive bachelor's degrees in Lawrence Tech's groundbreaking transportation design program offered in the College of Architecture and Design.

We have recently purchased a new screening tool that allows us access to our entire alumni base and gives us significant new information on non-donors, lapsed donors, and current donors who may be interested in new ways to support the University's mission.

While the challenges ahead are formidable, the resources now at our disposal, including a "cracker-jack" team, have us on track to achieve our overall goals.

The Marketing and Public Affairs team has been equally busy as we seek to enhance our already strong reputation in southeast Michigan and, working with the Enrollment Management/Admissions team, broaden our messages beyond the borders of Michigan.

Over the course of the year, more than 950 media stories publicized all the great activity, grants, and other news generated by the campus community. While this helps offset our reduced share of voice in the Southeast Michigan market, we are still significantly outspent in measured media

by our major competitors in our home market. This, over the course of time, has had a negative impact on our ability to support enrollment growth.

As President Walker noted in his letter, the University engaged the Art & Science Group over the past year to help us determine what Lawrence Tech's positioning should be going forward to attract more "first-time-in-any-college" prospects. Among their determinations:

- Lawrence Tech's main competitors are lower-priced public institutions;
- Lawrence Tech's tuition rates cannot raise significantly in the short term without an appreciable point-of-difference loss in relation to the public;
- "Cutting-edge technology and beyond" seems to be the best positioning for the University – cutting-edge technology in the programs we offer, and the methods use to teach them.
- Improving recruitment of students requires us to "cast a wider net" beyond southeast Michigan, using our web presence and social media more extensively.

- To attract and retain students, Lawrence Tech needs to become less of a commuter institution and more a destination campus with an active campus experience and residential life.

Much of what the surveys revealed was known or at least suspected, and already being acted upon. Even as the study was underway, Lawrence Tech was accepted into the National Association of Intercollegiate Athletics and was taking significant steps toward enhancing student life.

Homecoming week that culminated October 1 with the charter Athletic Hall of Fame ceremony, and soccer, volleyball, and hockey games, was extremely well organized and reached a level of spirit unseen on campus for many years. Some \$60,000 in cash and in-kind donations in support of Homecoming was raised through extraordinary efforts coordinated between our Student Services and

Advancement teams. (For the list of sponsors, go to www.ltu.edu/homecoming.)

We are very excited by all the efforts of the campus community to implement the University's new positioning, and we're profoundly grateful for the amount of support received to this point through Lawrence Tech's "Proud Heritage, Bold Future" comprehensive capital campaign.

Under the leadership of President Walker, we have seen some very progressive actions across all of the University's constituent groups. Lawrence Tech is well positioned for continuous growth in the years ahead.

Stephen E. Brown
Vice President
University Advancement

Associate Dean Lewis Frasch (right) joined the campus crowd cheering on the men's varsity soccer team led by co-captains Mikey Knoff and Damien Finkbeiner as the Blue Devils headed to the new soccer pitch for their home opener in September.



REPORT TO INVESTORS

FROM THE VICE PRESIDENT FOR FINANCE AND ADMINISTRATION



Linda Height

The financial struggles that persist in Michigan and around the country have impacted Lawrence Tech's tuition revenue stream, causing us to continue to streamline budgets and look for ways to improve our financial position. But despite our budget constraints, the entire University community worked diligently to maintain strong services and programming.

Through the efforts of our purchasing agent, many contracts were renegotiated, resulting in nearly \$70,000 in savings on items ranging from ink cartridges to cell phones to office supplies and paper. On the information technology side, changes to contracts and computer systems resulted in savings of over \$300,000 over the next three years.

We completed the steps necessary to purchase Lawrence Tech's geothermal well system

from Hardin Technologies. This innovative well system, which substantially reduces utility costs in the Taubman Student Services Center, has been on a long-term lease. By negotiating a final purchase of the entire well system, we achieved a one-time savings of \$200,000 and reduced the annual cost by \$90,000.

As a result of these efforts and the work of departments throughout the campus to control costs, Lawrence Tech ended the year with a surplus of \$1,488,234. This is critically important to the University, as these results are viewed by our lenders and rating agencies. It is also important because it helps the University maintain a healthy cash balance.

Performance development programs piloted last year by our Department of Human Resources were very successful, and as a result we're creating at least one or two workshops a year for all employees. These will focus on

management development and leadership topics. Thanks to our Department of eLearning Services, videos of these programs are available to anyone who cannot attend in person.

We continue to invest in the campus and physical plant. Following the many improvements made last year in Din-

ing Services, the Buell Management Building atrium was "reimaged" with new carpet, soft seating, and awnings over the Bookstore and the RFOC. The atrium has become a destination spot for students to relax, eat, study, socialize, and enjoy each other's company.

Other improvements were



Homecoming spirit was in the air at the Taubman Student Services Center when staff in Lawrence Tech's DTE Energy One-Stop Center competed in the first "Blue-ify Your Campus" competition.



A major financial commitment to improving both classrooms and research facilities in the Science Building has increased the opportunities available to Lawrence Tech students interested in life sciences.

REPORT TO INVESTORS

made in the Engineering Building. Renovations made on the first floor include new flooring, walls, ceilings, and lighting. The changes have been very well received, and future plans target the second floor for the same level of renovation. Other renovations were made in North and South Housing and in the Architecture Building. As reported elsewhere in this magazine, laboratories in the Science Building have also been substantially upgraded and improved.

Investments in the University Endowment did well this fiscal year, especially compared to the difficult previous year. Lawrence Tech has outperformed similar institutions and the S&P 500 over one, three, and five years. We constantly monitor these investments and review investment strategy with the Finance Committee of the Board of Trustees.

Our auditors Plante & Moran has provided another clean audit opinion for fiscal 2010–11. As part of their



audit, they also examined our IT controls and our retirement plan, both of which were completed without any major issues.

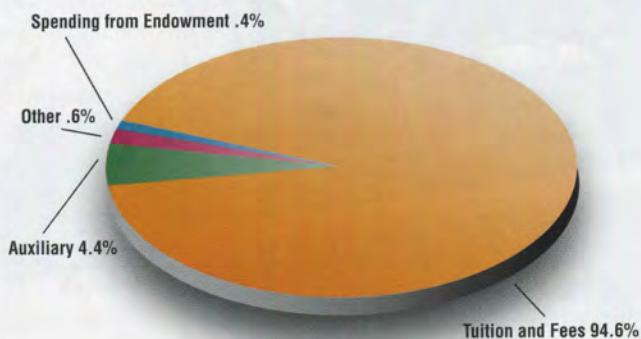
Everyone in our campus community deserves praise for working so diligently to help maintain a healthy budget and achieve Lawrence Tech's financial goals. We can do so

much by working together, and I am very happy to be part of such a strong team.

Linda L. Height
Vice President
Finance and Administration

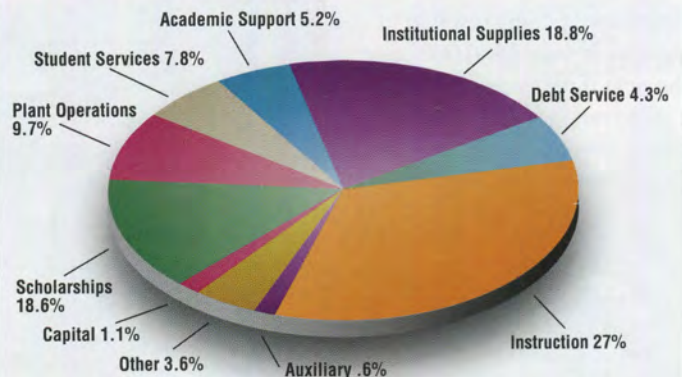
Students got to know each other a little better by participating in Playfair activities during Discovery Days for incoming freshmen in August.

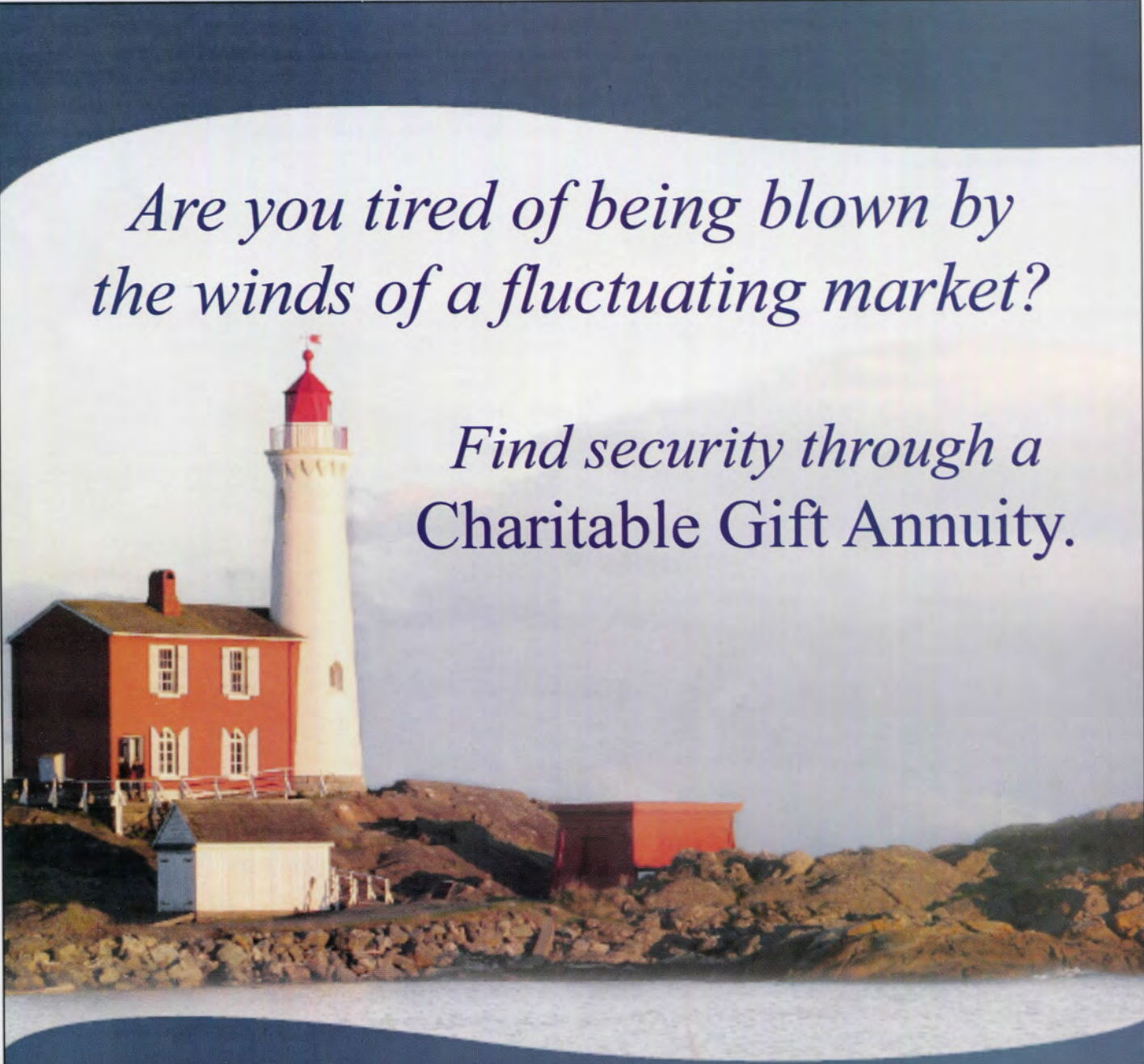
Revenue: \$61,699,972



Financial results for fiscal year ending June 30, 2011

Expenses: \$60,211,739





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T H E B A C K P A G E

Governor's major policy speech shines a light on Lawrence Tech

“If we want to grow our economy and keep our children here, then we need to fix the very foundation of our state,” said Gov. Rick Snyder during a major address on Michigan’s infrastructure held at Lawrence Tech’s Center for Innovative Materials Research (CIMR) on Oct. 26.

Snyder chose Lawrence Tech as an appropriate setting for his presentation on the future of Michigan’s infrastructure. “Better roads make better jobs” was his theme.

Media representatives, government officials, and industry leaders filled CIMR to hear Snyder outline the problems facing the state caused by the \$1.4 billion shortfall in infrastructure investment identified by a bipartisan legislative report. Possible solutions he suggested included a streamlined gasoline tax and higher vehicle registration fees.

Prior to the speech, Dean of Engineering Nabil Grace gave Snyder a tour of CIMR and showed him some of Lawrence Tech’s groundbreaking research on carbon fiber reinforced polymer (CFRP) and other materials to replace steel rebar used to reinforce concrete in bridge structures.

Lawrence Tech studies have shown that bridges reinforced with CFRP materials should last twice as long as bridges reinforced with steel and require less maintenance.

The problem with steel-reinforced concrete is that steel rusts and expands, causing cracks in the concrete. Water gets into the cracks and freezes, making the cracks even bigger. The process is hastened by the winter use of corrosive salt on roads and bridges.



Gov. Rick Snyder met project engineer Craig Przytulski, BSCvE’10, and assistant technician Steve Downing during a tour of Lawrence Tech research facilities led by Dean of Engineering Nabil Grace (right).

Carbon fiber initially is more expensive than steel, although the cost difference would be reduced if Tokyo Rope, the Japanese company that supplies carbon fiber rebar, builds a plant in the United States. State development officials would like to see that plant built in Michigan, and Snyder signed a cooperation agreement with the company during a recent trip to Japan.

In his speech, Snyder praised Grace for his research on carbon fiber that could have a dramatic impact on Michigan’s economy.

“Dr. Grace and his team have done truly wonderful research ... that hopefully will bring companies to Michigan and truly bring innovation to transportation,” Snyder said.

The governor pointed out that the first Michigan bridge utilizing Grace’s carbon fiber research is now 10 years old. This year the Pembroke Avenue bridge over the Southfield Freeway in Detroit was rebuilt with CFRP materials in place of steel for three major components.

“Those bridges cost more on day one but they last a whole lot longer and cost a whole lot less during their life cycle,” Snyder said. “This is the kind of investment we need ... to be smart about the future.”

Officials from throughout the United States have visited CIMR to learn more about the possible uses for CFRP materials, not just in bridges and highways but also for military applications. □EP



In October Gov. Rick Snyder drew television crews and a big crowd to LTU’s Center for Innovative Materials Research.