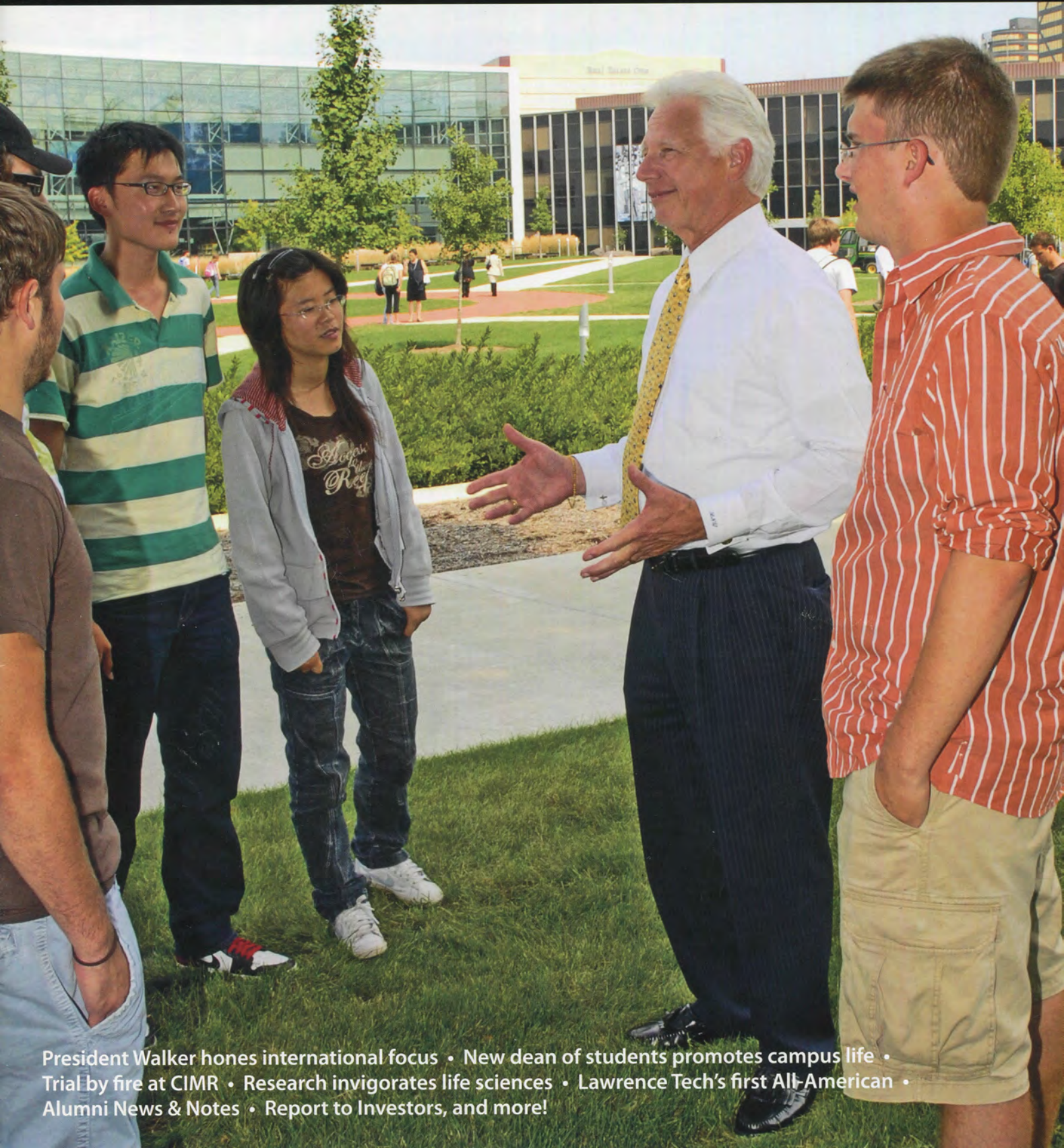


Lawrence Tech[®]

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Fall 2008



President Walker hones international focus • New dean of students promotes campus life •
Trial by fire at CIMR • Research invigorates life sciences • Lawrence Tech's first All-American •
Alumni News & Notes • Report to Investors, and more!

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On the cover: President Lewis N. Walker chats with students on the Quad during a break in Discovery Days activities that introduce new students to the Lawrence Tech community during the first week of the fall semester. In the background is the A. Alfred Taubman Student Services Center.

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Lawrence Tech graduate student Shilpa Garja helps high school student Braenden Grant (R) in the computer lab at University High School in Ferndale. She was among 17 graduate students from India who served as tutors in 2007 as part of Lawrence Tech's ongoing relationship with the innovative high school.



Education becomes a worldwide mission at *Lawrence Tech*

Lawrence Tech's relationships with universities around the world aim to better prepare students to meet the challenges of the global economy.

President Lewis N. Walker last June led a delegation of nine academic leaders from Lawrence Technological University on an extraordinary mission to the island kingdom of Bahrain off the coast of Saudi Arabia. For the first time the University held a convocation on foreign soil to confer an honorary doctorate degree in humanities on the Bahraini prime minister, His Highness Shaikh Khalifa bin Salman Al-Khalifa.

More than a hundred dignitaries dressed in the traditional Arab robes rose in unison as Grand Marshal Scott Schneider, associate professor of physics, led the Lawrence Tech procession at a government palace to the familiar strains of Elgar's "Pomp and Circumstance."

In his speech, Walker honored the prime minister for his longstanding commitment to education, a dynamic free market economy and a more open society. In his response, the prime minister said his country looked forward to sharing educational resources with Lawrence Tech.

The ceremony provided an opportunity for Walker to lay the groundwork for a working relationship with educators in a key

part of the world. It was another example of his ongoing commitment to make Lawrence Tech an important player in the globalization of American education.

"Thriving in the global economy is largely a process of building strong personal relationships," Walker said.

Walker is using personal diplomacy to build a network of cooperative agreements with universities literally around the world. He began his international travels on behalf of Lawrence Tech while serving as provost, and since becoming president in July 2006 has made many trips to other countries. The result is a richer educational experience on the campus in Southfield for American and international students alike.

Walker's international travels have paid off with more than 20 agreements with universities in China, Taiwan, India, Egypt, Jordan, Sharjah in the United Arab Emirates, Germany, Canada, and now Bahrain. (*See accompanying story.*) These agreements authorize student and faculty exchanges, as well as credit sharing that can lead to joint degree programs. One of his goals is to develop degree programs "on the ground" in India, China, and the Middle East.

Honorary degrees for global leaders

One benefit of Walker's foreign travels is the opportunity to meet leaders of foreign countries whose accomplishments have not been recognized in the United States. Granting honorary degrees to these leaders is one way of creating stronger ties between Lawrence Tech and the recipient's country.

On a trip to Egypt, Walker offered an honorary degree to Pope Shenouda III, the world leader of the Coptic Orthodox Church, in part because members of that church play a very important role in the scientific community in Egypt. In August 2007, Pope She-

'As we build Lawrence Tech's reputation and partnerships overseas, it strengthens our value to the businesses and industries we serve right here in Michigan and the Great Lakes region.'

nouda came to the Southfield campus for a special convocation in his honor.

Bestowing an honorary degree on Pope Shenouda has helped strengthen relationships at the University of Cairo in Egypt, one of the oldest universities in the world and also one of the largest with more than 200,000 students.

At the University's traditional commencement ceremonies held in Cobo Arena in Detroit in May, Walker conferred an honorary degree on Sharad Pawar, India's minister of agriculture and minister of consumer affairs, food and public distribution. A leading politician for many years in the world's largest democracy, Pawar has many ties to India's universities. (*See story on page 36.*)

Similarly, the strong friendship with the Bahraini prime minister should lead to new relationships in the Persian Gulf region. The starting point is an agreement with the University of Bahrain to exchange faculty and students and conduct joint research and teaching projects.

That new relationship got off to a strong start because the eight other Lawrence Tech administrators and faculty members who participated in the convocation ceremony also had the opportunity to meet with their Bahraini counterparts. There wasn't a language barrier to overcome because Bahraini educational leaders all speak English, which has become the universal language of both business and education.

"We found that we had many interests in common," said

Melinda Weinstein, the new chair of the Department of Humanities, Social Sciences, and Communication at Lawrence Tech, who met with Khalil Al-Khalili, dean of the College of Education. "I greatly benefited from his perspective, and together we identified several potential opportunities for collaboration among both our faculty and our students."

China strategy pays off

Walker began building relationships during visits to China while serving as provost. He helped set up a program that brings Lawrence Tech professors to Shanghai to teach eight courses per year for the bachelor's degree programs in automotive technology and automotive marketing at Shanghai University of Engineering Science (SUES).



President Lewis N. Walker and University of Bahrain President Ibrahim Mohammed Ahmed Janahi display the memorandum of understanding they signed in June.



Provost Vaz and President Walker present Pope Shenouda III, the world leader of the Coptic Orthodox Church, with a doctoral hood representing a doctor of humanities honoris causa.

Graduates of these programs have come to Lawrence Tech to pursue master's degrees in engineering, management, computer science, and education.

Walker's trip to China in June – his third since becoming president and sixth overall – has resulted in three new agreements that have built on the success of the programs at SUES. "Sometimes it takes several years to establish the relationships needed to start programs at a university. The proven success of SUES programs and the personal relationships established in the process have helped open the door for exchange agreement with new partners," he said.

Walker was particularly pleased to reach an agreement with Sichuan University in Chengdu, a prestigious institution with more than 60,000 students. Sichuan students will come to Lawrence Tech in their sophomore and junior years and then return to China for their final year. They will receive degrees from both universities. Similar arrangements have been established at Xihua University and Sichuan University of Technology and Science.

"Academic programs on the ground in China will produce a flow of students to our campus," Walker said.

Further discussion between Lawrence Tech and Tsinghua University in Beijing – reputedly the top university in China – led to Lawrence Tech and Tsinghua students working together on an architecture studio project over the internet during this past spring semester. Over spring break some of our students traveled to China to meet with their studio colleagues.

This in part resulted from an earlier meeting President Walker and Provost Vaz had with Professor Wu Liangyong of Tsinghua University, who is widely recognized as the most distinguished person in Chinese architecture.

During this visit Walker and Vaz learned that Professor Wu taught at Lawrence Tech in the early 1950s. Professor Wu, working with Eliel Saarinen, designed part of the GM Tech Center, and knew and collaborated

with Earl Pellerin, the founding dean of the College of Architecture and Design. Additionally Professor Wu knew and collaborated with Frank Lloyd Wright and told interesting stories about meetings between Eliel Saarinen and Frank Lloyd Wright.

A longstanding arrangement with the Sino-American Education Service Center in Taipei, Taiwan, brings teachers from that country to the Lawrence Tech campus every summer for a master's degree program in educational technology.

Programming expands in India

There's a similar success story in India. Students of the International Institute of Information Technology in Pune, India, can earn a jointly delivered master's degree in automotive engineering from Lawrence Tech by taking seven courses and in some cases completing a capstone project in Southfield.

That initial cooperative agreement has helped open doors at four other Indian universities, including the National Institute of Technology in Warangal (NIT-W). This spring NIT-W Director Venkateswara Rao came to Southfield to sign an agreement of collaboration for faculty and student exchanges and cooperation on academic programs. The first cooperative project will likely be a joint seminar and conference on mechatronics and automation at the master's degree level.

The negotiations with NIT-W progressed rapidly after Indian native Devdas Shetty arrived at Lawrence Tech in January to become dean of the College of Engineering. Shetty noted that NIT-W is very selective because it draws students from different sections of India who qualify through a highly competitive entrance examination.

"The high caliber of students makes NIT-W a good partner for student and faculty exchanges," Shetty said.

Chancellor G. Viswanathan (second from left) of Vellore Institute of Technology, a top private university in India, discuss a faculty/student exchange with Provost Vaz, Dean Devdas Shetty of the College of Engineering, and President Walker during a visit to Lawrence Tech earlier this year.



Now Lawrence Tech has agreements with three of the top 15 universities in India, including Vellore Institute of Technology, which is the country's top-ranked private university.

Two-way international street

Lawrence Tech faculty have a lot to offer other universities, and creating new markets for the University's educational programs is part of a sound business model. These arrangements also bring more foreign students to the Southfield campus. In the spring term, Lawrence Tech had 664 foreign students from more than 40 countries, not including Canada – about 15 percent of the overall student body. Currently most foreign students come from Canada, India, China, and Saudi Arabia.

Foreign students value their exposure to English. They also benefit from Lawrence Tech's style of education that stresses critical and analytical thinking and theory and practice.

Having students come to Lawrence Tech from so many different countries also prepares American students for leadership roles in the global economy. "It helps our American students to have fellow students from different countries, cultures, and backgrounds on campus," Walker said. "It enhances the educational experience at Lawrence Tech and helps prepare all of our students for working more effectively in the global economy."

In addition, the relationships that Lawrence Tech is building in other countries are leading to new business opportunities back here at home. "As we build Lawrence Tech's reputation and partnerships overseas, we increase our value to the businesses and industries that we serve right here in Michigan and the Great Lakes region," Walker said.

Provost Maria Vaz sees an added benefit of Walker's commitment to establishing and expanding relationships around the globe. "When we attract international leaders such as Pope Shenouda and a leading Indian statesman such as Sharad Pawar, we are building our visibility and credibility here in the United States," Vaz said. ▲EP



President Walker and Provost Vaz help Shaikh Khalifa bin Salman Al-Khalifa display his diploma and citation after the prime minister was awarded an honorary degree in humanities at ceremonies held in Manama, Bahrain, in June.

Lawrence Tech embraces a global mindset

Lawrence Tech President Lewis N. Walker has signed more than 20 academic agreements with international universities.

Students from several of these universities have come to Lawrence Tech to study for bachelor's and master's degrees, and conversely, Lawrence Tech students have journeyed to several universities to study and, in some cases, intern at the foreign offices of international firms. Some agreements include joint research projects and the exchange of faculty.

As of September 2008, Lawrence Tech had academic agreements with partners in these countries:

Kingdom of Bahrain

University of Bahrain

China

Shanghai University of Engineering Science
Sichuan University, Chengdu
Sichuan University of Science and Engineering, Chengdu
Xihua University, Chengdu

Denmark

Technological University of Copenhagen

Egypt

University of Cairo
Helwan University

Germany

Esslingen Fachschule
Ulm Fachschule

India

International Institute of Information Technology, Pune
University of Mysore
National Institute of Technology, Warangal
PSG College of Technology, Coimbatore
Vellore Institute of Technology
Vidya Pratishthan College of Engineering, Baramati

Jordan

American Middle East Graduate University, Amman

Mexico

Monterrey Institute of Technology

South Korea

Chungju National University
Hanyang University, Seoul and Ansan

Taiwan

Sino-American Education Service Center, Taipei

United Arab Emirates

American University of Sharjah

Finn finds new ways to enrich student experience

Lawrence Tech's new dean of students wants to bring more fun to the campus while at the same time encouraging students to take personal responsibility for their own actions, society in general, and the world as a whole.



Dean of Students Kevin Finn doesn't need to hold office hours in order to hear from students. He exchanged information with Jennifer Guthrie, treasurer of Student Government, when their paths crossed on the Quad during the busy first week of the fall semester.

This year's "Welcome Back" picnic for students was the kind of activity Dean of Students Kevin Finn uses to enhance the campus experience at Lawrence Tech – it was fun, it was a good place to meet people, and there was also a message and a purpose.

In keeping with the "Blue Goes Green" theme, Taher Food Management Services, Lawrence Tech's contract vendor, greatly reduced the trash generated at the meal by eliminating the need for plates, plastic ware and cups. Students ate grilled wraps and corn on the cob and drank water and soda in recyclable containers. Most of the food was both organically and locally grown. In fact, Lawrence Tech students picked the apples served for dessert.

Finn was pleased that the healthier menu that benefited both the environment and the local economy had the same price points as a more traditional cafeteria meal featuring hamburgers and chips.

The novel approach to institutional food created a conversation buzz. Students found out something new about themselves and each other as they answered questions to determine the size of their "carbon footprint" – the amount of energy they use in their daily lives.

"An event is a success in my book when students have fun sharing an experience and also learn something new. In this case we got them to think about how their lifestyle choices can affect the planet," Finn said.

As dean, Finn wants to make the campus experience at Lawrence Tech both more rewarding and more purposeful. The ultimate goal is to enable students – many of whom are commuters – to establish friendships that will last a lifetime.

"We are always looking for opportunities for students to build lasting relationships on campus, and that's what Welcome Week activities are all about," Finn said. "We also are looking for activities that are educational or serve a purpose."

Finding a new vocation

Finn didn't start out in college administration. With a bachelor's degree in human resource development, he worked for the Troy school district on state and federal employment services programs. He also coordinated outplacement and recruitment efforts of local companies, including DaimlerChrysler's restructuring in 2001 and staffing for the opening of Great Lakes Crossing Mall.

He joined Lawrence Tech in 2001 as director of career services and subsequently earned an MBA here. In January 2007, he was given responsibility for international programs, and

'An event is a success in my book when students have fun sharing an experience and also learn something new.'

– Dean Kevin Finn

Finn finds new ways

CONTINUED

that summer became interim dean of students when Jerome Webster left the post to take a similar position in Ohio. Provost Maria Vaz made it a permanent position in April.

“As our dean of students, Kevin plays a crucial role in advancing Lawrence Tech’s vision for students’ personal and professional growth, leadership, and ethical development,” Vaz said. “All of our *students are benefiting from his commitment, enthusiasm and leadership.*”

Finn has set ambitious goals for expanding the student activities put in place when Webster was dean of students. Last year an outdoor volleyball court was installed behind Housing North. This year Student Activities is adding barbeque grills, a horse-shoe pit, an outdoor patio, and a gaming center inside the dorm.

Student Activities is also looking for ways to build awareness of more sustainable lifestyles. New this fall is a bicycle sharing program that enables students to sign out school bikes to use for errands instead of their cars.

An information booth staffed by students has been installed in the Buell Building atrium. The booth has a monitor for viewing upcoming events, but Finn believes the opportunity to get a fellow student’s opinions on upcoming events could be even more valuable.

Getting students more involved

The number and variety of student activities on campus is growing. For example, Student Activities sponsored a presidential debate among students. The prize for the team representing the successful party is a trip to Washington, D.C., for the presidential inauguration.

Finn encourages more student participation whenever he meets with student government officers and representatives of campus organizations. In addition to responding to the day-to-day concerns of students, Finn promotes opportunities to get them involved in community service and sustainability initiatives.

“We want to get students more involved in purposeful activities and empower them to make a difference,” Finn said.

He hopes to organize community service projects in the area that can be part of an alternative spring break.

‘We know that students who get connected and have plenty of friends and activities are more likely to be happier and more successful at Lawrence Tech.’

– Dean Kevin Finn



Sports is a great way to get students involved in campus life, and the Lawrence Tech community is rallying around the hockey team that had a 18-11 record last year. Close to 500 fans showed up at the Southfield Sports Arena last November when Blue, the devilishly cute school mascot, made his first appearance.

Emphasizing personal responsibility

Getting students more involved in social activities does involve some potential pitfalls that Finn and the Student Activities staff are focusing more attention on this year. More activity on campus also increases the possibility that students will abuse alcohol or engage in other socially and personally detrimental behavior. This fall Student Activities is working with the Greek fraternities and sororities and other student organizations to get the word out about the dangers of alcohol abuse and the counseling available.

Success in creating an active student life on campus has helped fill the two residential dorms to capacity. That in turn leads to more interpersonal problems to be resolved and the need to constantly improve the experience at student housing.

Another goal for this academic year is establishing a women’s support center to provide both counseling and peer support for female students who may face challenges on campus.

The dean of students also works closely with Jamie Hobart, coordinator of First Year Programs, and Melissa Grunow, coordinator of the undergraduate Leadership Program, to support



In September a new Lawrence Tech tradition was born when a beach volleyball tournament attracted six teams. Students can practice on the sand volleyball court built last year next to Housing North. Outdoor barbeque pits were added this year.

Student Affairs promotes environmental responsibility

Environmental responsibility is a major concern for today's Lawrence Tech students, and Student Affairs is doing its part to promote programs that can help make the campus more Earth friendly.

That approach was very visible at the start of the school year when the theme of the Welcome Back Picnic was "Blue Goes Green." The meal was planned to eliminate the need for plates, plastic ware and cups. The majority of the food was organic and locally grown, and students even picked the apples served for dessert.

The generator powering the Discovery Days concert was run on biodiesel fuel processed by students in the alternative energy lab. The Welcome Back t-shirts display Lawrence Tech's new recycling logo and were printed with nontoxic inks on organic cotton.

Campus vendor Taher Food Management Services continues to make improvements to reduce the amount of waste at Café Lawrence. A "green line" of cleaning chemicals has been introduced, and less water and energy is used for washing now that trays have been eliminated.

Recycling efforts on campus have been expanded from paper, bottles, and cans to include textbooks and athletic shoes.

This year students have been encouraged to join Lawrence Tech's Ride Share program. Benefits include premium parking, a discount card and eligibility for monthly prizes.

Blue Devil Bikes, a new program organized by the Student Recreation Department at Ridler Field House, enables students to sign out a bike to get around campus and run errands without getting into a car.

"Students can gain the benefits of exercise and, more importantly, there will be no nasty emissions and gasoline costs," said Dean of Students Kevin Finn. ▲EP



Lawrence Tech students Andrew Didorosi and William Webster have discovered how easy and fun it is to sign out a Blue Devil Bike.



Discovery Days provides new students with an introduction to campus life during the first week of the fall semester. In the photo above, students were introduced to the campus community like sports stars – one of many activities designed to build self confidence, camaraderie, and school spirit.

activities related to the transition of freshmen into college and the development of leadership skills of students.

Finn's brief tenure as the head of international programs also has provided him with insights into the unique set of challenges that face students coming to the United States for the first time to attend college. More interaction between international students and American students will make that transition easier.

"This is a tremendous opportunity to build lifelong relationships with people from other countries," he said.

Finn is a marathon runner, an avid sports enthusiast, and a diehard Notre Dame fan, so it's not surprising that he sees sports such as soccer as a common ground for students from different countries. He also sees Lawrence Tech's hockey team as a potential focal point for school spirit.

Finn is quickly learning about the wide variety of challenges that students encounter. Every day brings something new, and every student faces a different set of circumstances. But he is convinced that many personal problems will be solved before they have a chance to develop if students take advantage of the opportunities for involvement offered on campus.

"We know that students who get connected and have plenty of friends and activities are more likely to be happier and more successful at Lawrence Tech," he said. "They will get more out of their educational experience." ▲EP



Associate Professor Harold Hotelling was the moderator for a student presidential debate held a week before the election. The team representing the winning candidate won a trip to the inauguration ceremonies in Washington, D.C., in January.

Dean Hsiao-Ping Moore of the College of Arts and Sciences makes time in a busy schedule to pursue her own projects in the lab and she wants students to experience the excitement of scientific inquiry.



Research provides spark for new life sciences programs

A renewed emphasis on basic and applied research in Lawrence Tech's College of Arts and Sciences is leading to more opportunities for students, both in the lab and in the job market following graduation.

Hsiao-Ping Moore didn't leave the research lab behind in 2005 when she moved from the University of California at Berkeley to become dean of the College of Arts and Sciences at Lawrence Technological University. Instead, her passion for basic research in molecular and cell biology became the starting point for new academic programs in life sciences.

As dean, Moore is responsible for providing administrative oversight for many of the core curriculum courses that all Lawrence Tech students take as part of a balanced college education. Yet she often starts her day not in the dean's office on the first floor of the Science Building, but in a lab on the third floor. There she continues to focus on the pursuit of new knowledge that has driven her academic career for more than 20 years.

Insights that Moore has gained as a researcher guide the creation of new life sciences programs that will prepare Lawrence Tech students for emerging careers in a rapidly growing field. Her position as dean has made it easier to implement changes in the curriculum.

Last year Lawrence Tech introduced a new bachelor's degree program in molecular and cell biology. Science faculty members are also working with the College of Engineering on its new degree program in biomedical engineering – the University's fastest-growing undergraduate program. (See accompanying story.)

Additional faculty and upgraded facilities

Under Moore's leadership, Lawrence Tech has added several faculty members in the fields of biology and chemical biology and upgraded laboratory facilities. Her vision for the

College of Arts and Sciences got a big boost this summer with a \$3 million anonymous gift earmarked for life sciences programs.

As a result, existing life sciences facilities will be upgraded, and plans are being developed for a new life sciences laboratory. A \$1 million endowment fund will provide annual income for endowed professorships, new faculty, research supplies, and equipment replacement and repair.

"This gift will make a big difference in the expansion of life sciences at Lawrence Tech," Moore said.

Increased basic and applied research is a goal in Lawrence Tech's new strategic plan, and Moore has encouraged the faculty in the College of Arts and Sciences to contribute to the body of knowledge in their fields.

Assistant Professor Jeffery Morrisette is doing research on the biochemical and physiological specializations of cardiac tissue that enable hearts to function over a wide range of temperatures. Data is beginning to show that the cellular adaptations that contribute to cardiac function in the cold may be surprisingly similar in seemingly unrelated organisms.

Assistant Professor Julie Zwiesler-Vollick, who won a \$50,000 faculty start-up award from the National Science Foundation, is doing research on the interaction of pathogens and their plant hosts, using molecular genetics, biochemical, and bioinformatics approaches. She has identified a mutant of one pathogen that affects its virulence. Preliminary evidence in another project indicates that pH may play a role in the infection process of a pathogen.

Biochemistry instructor Shannon Timmons, the recipient of an \$80,000 award from the Natural Sciences and Engineering

'We want to involve undergraduates in research because I believe it can be the best learning tool for critical thinking and problem solving.'

– Dean Hsiao-Ping Moore

Research Council of Canada, is looking for new carbohydrate-based drugs to treat cancer and bacterial infections – specifically drugs derived from natural products, which are chemical compounds produced by living organisms.

Her approach involves the addition of carbohydrate molecules to new and existing medicinal agents, using a combination of both synthetic organic chemistry and enzymology.

Research in the College isn't restricted to life sciences. Humanities Professor Gonzalo Munevar is using neuropsychology in an evolutionary context to investigate how the brain constitutes the self and how that determines our actions.

Matthew Cole, director of the psychology program, is researching adolescent HIV and drug prevention, the neurophysiological substrate of gambling, and outcome evaluation of research programs. These research projects involve collaborative relationships with Children's Hospital of Michigan, Beaumont Hospital, and the Skillman Foundation, respectively, and students assist with data management and analysis.

Getting students involved

Moore believes that students also benefit from research on campus, especially if they are involved in the projects. She encourages faculty members to design research projects so that undergraduates can fit in – starting with a small part of a big project.

"We want to involve undergraduates in research because I believe it can be the best learning tool for critical thinking and problem solving," she said.

Moore also sees internship opportunities for students coming out of the university's expanding relationship with nearby Beaumont Hospital in Royal Oak.

"This field is growing and evolving very rapidly. Lawrence Tech is well positioned to contribute both research and educational resources," Moore said. "Our students will benefit from the

role Lawrence Tech is playing, and in the future our graduates will be leaders in the field."

She believes the University's investment in life sciences will pay off with exciting career opportunities for Lawrence Tech graduates. With 77 million baby boomers nearing retirement age, there is a rapidly increasing demand for life-enhancing technologies and innovative medical products that molecular and cell biologists can help create.

Lawrence Tech students can use research experiences to explore both the theory and practice of life sciences. Here students and Assistant Professor Julie Zwiesler-Vollick (L) discuss the microscopic appearance of healthy cell lines.



Research provides spark

CONTINUED

"A biotechnology revolution is under way, and molecular and cell biologists are at the forefront of today's advances in biology and medicine," the dean said.

Building a career on research

A native of Taiwan, Moore taught and conducted research for 20 years at the UC-Berkeley, where she was professor of molecular and cell biology. She has also been a visiting faculty member at Harvard University, the University of California at San Diego, the University of Michigan at Ann Arbor, and Wayne State University, where she has a joint faculty appointment.

She has published more than 80 peer-reviewed research papers on the structure and function of membrane receptors and ion channels, mechanisms of vesicular transport, pathways of protein secretion, and molecular mechanisms for protein sorting and targeting.

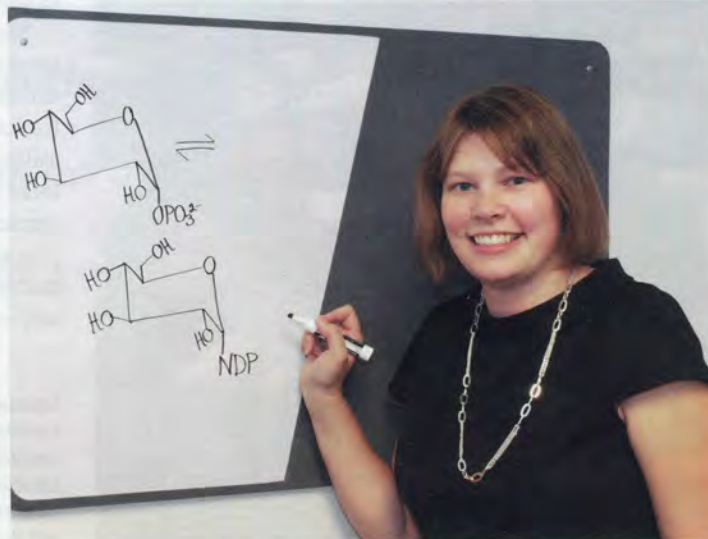
In collaboration with James Granneman of Wayne State University's School of Medicine, Moore is actively pursuing her research into the causes and possible cures for type II diabetes and other metabolic diseases linked to obesity. They are working together on four multi-year grants totaling \$2.1 million from the National Institutes of Health, the American Diabetes Association, and Veterans Administration Hospitals.

When the body is functioning normally, eating food containing sugars triggers the pancreas to produce the hormone insulin that sends signals to cells to absorb the resulting glucose. A cell responds by moving glucose transporters to its membrane so that the new glucose can be absorbed. The glucose is then metabolized and stored for later use when the body needs energy.

With type II diabetes, the cells do not respond to the presence of insulin. This resistance to insulin's trigger mechanism means that glucose won't be absorbed by the body's cells. Instead the excess glucose remains in the blood stream, causing osmotic imbalances and multiple organ dysfunctions. Deprivation of glucose inside the cell also leads to breakdown of cellular protein and fat, resulting in protein depletion and wasting.

Being overweight can lead to insulin resistance, which is a hallmark of type II diabetes. Apparently the presence of a large number of fat droplets within cells can cause an interruption of insulin's normal trigger mechanism. Moore and Granneman are researching the precise relationship between fat droplets and insulin actions.

They focus their attention on identifying those proteins on the surface of fat droplets that may be responsible for insulin resistance. This is a daunting task because there are approximately 30,000 proteins in a cell, and researchers believe that as few as five residing



Biochemistry instructor Shannon Timmons demonstrates an enzymatic route to add a carbohydrate to a natural product, a process that she uses in her search for new drugs to treat cancer and bacterial infections.

Biomedical engineering degree program leads to promising careers

Biomedical engineering is one of the most promising career paths in health care, which is a rapidly expanding segment of the American and international economy. Not coincidentally, it is the fastest growing major at Lawrence Tech.

The College of Engineering and the College of Arts and Sciences combined resources to introduce the new academic program two years ago. The first two degrees were awarded in May. More than 50 students are now on track to receive degrees in biomedical engineering, including 18 incoming freshmen.

Lawrence Tech's biomedical engineering program combines intensive coursework in engineering with a strong background in biology, chemistry, physiology, and other subjects pertinent to the medical field.

Using their knowledge of microelectronics, biomechanics, and imaging, biomedical engineers design procedures and equipment that assist in the diagnosis and treatment of disease, make medical testing less intrusive, enhance the quality of life for people with disabilities, and otherwise improve the practice of medicine.

A major reason for the program's success at Lawrence Tech is the close cooperation between the science and engineering faculty that is often hard to achieve at other universities.

"This is a wonderful example of how our faculty works together across disciplines," Provost Maria Vaz said.

The degree program benefits from regular meetings of faculty from the two colleges, according to its director, Ronald Foster, a professor of electrical and computer engineering.

"We have developed strong partnerships with the life sciences faculty," Foster said. "We really work together."

Coordination with programs in traditional areas of engineering makes it possible to earn a dual degree in electrical engineering or mechanical engineering. ▲EP

on the surface of fat droplets may be directly involved in this process.

They employ the researching power of a new field of study called proteomics, which is used to catalogue the proteins present in a cell. A more advanced form of proteomics, called functional proteomics, can help identify what role the individual proteins perform. With these tools, Moore and Granneman have narrowed down the search to a handful of candidate proteins.

"If we can gain an understanding of all that, we can help create a drug to counteract insulin resistance and break the deadlock that is the basis of type II diabetes," Moore said. ▲EP



Trial by fire is key to protecting buildings from attack damage

Nabil Grace and students working at the Center for Innovative Materials Research (CIMR) prepare a hydraulic actuator for a load distribution test.

By Nabil Grace, PhD, PE

The attacks of Sept. 11, 2001, demonstrated beyond a doubt that we need to better prepare critical facilities in the United States and abroad so that damage and loss of life can be minimized in future tragedies. Here at Lawrence Technological University, potential solutions have evolved as a byproduct of our research into construction products to improve our nation's infrastructure of bridges and highways.

With funding from the National Science Foundation, the U.S. and Michigan departments of transportation, and the Michigan Economic Development Corp., my team of researchers has been investigating how fiber reinforced polymers (FRPs), specifically those based on carbon fiber (CFRPs), can replace steel strands and rebar in reinforced and prestressed concrete structure components. CFRP materials can be 10 times stronger than steel, five times lighter, and not be susceptible to the corrosion that often undermines steel-reinforced bridges.

We are also conducting research for the Army Research Lab (ARL) and the U.S. Army Tank-Automotive Research, Development, and Engineering Center (TARDEC) on armor structures for lightweight truck components.

Lawrence Tech researchers are investigating ways that reinforced and prestressed concrete structural components can meet demanding standards for resisting fire as well as impact forces.

All of these research projects not only provide valuable hands-on experiences for our students, they also have provided valuable data and test results that can be used to develop new products and techniques for protecting critical buildings against potential terrorist attacks. With continued support from our research sponsors, we are making considerable progress.

Cloth can make buildings stronger

FRPs have become attractive materials for engineers working in the construction field, especially for strengthening existing deficient reinforced concrete structures. Several FRP systems are now commercially available, incorporating glass, aramids, and carbon fibers.

We learned from previous experiments that FRP fabric wrap can greatly strengthen a deficient structural component of a bridge or provide added protection to a military vehicle. We then

asked ourselves if a fabric wrap could also strengthen the main structural elements of critical buildings that are potential terrorist targets – possibly preventing the loss of hundreds and even thousands of lives.

The answer provided by our research turned out to be “yes and no.”

Yes, because the data demonstrated that the FRP wrap would go a long way to delay and/or prevent structural collapse that could be caused by an explosion – perhaps doubling the capacity of a building to absorb the shock of an impact force.

But if the explosion resulted in a fire, the answer was, unfortunately, no. A standard organic epoxy used to bond the fabric to the concrete begins melting between 150 and 300 F. The high temperatures of a major fire would greatly reduce the effectiveness of the FRP fabric wrap, leaving the underlying building structure highly vulnerable when temperatures exceed 2,400 F, as they did at the World Trade Center collapse. Without an adequate fire resistance system in place, this strengthening approach is not a realistic solution for protecting buildings against attacks.

In order to make a meaningful contribution to homeland security, we need to develop and evaluate an innovative product that can protect both the FRP fabric wrap and the underlying reinforced concrete structural elements from the ravages of very high temperatures.

Building the right testing facility

Fire-related research has long been ignored due to the difficulty of simulating real fire loading conditions. We addressed that problem in 2007 at Lawrence Tech’s Center for Innovative Materials Research (CIMR) when we designed and installed a fire/loading chamber that provides the test parameters we need for investigating the fire-resistant characteristics of various FRPs. The chamber is 22 feet wide, 10 feet high, and eight feet deep, giving us enough room to test structural components at one-third and even one-half scale. These components can be tested for both static and repeated loads up to 150,000 pounds at temperatures up to 2,300 F, which means we can approximate the conditions that existed at the World Trade Center on that fateful day in 2001.

This testing facility is attracting national attention. In June, it was featured on the History Channel’s television series, *Modern Marvels*, in an

Nabil Grace talks to students about procedures for conducting tests in the fire/loading chamber at Lawrence Tech’s Center for Innovative Materials Research (CIMR).



episode entitled “Super Hot,” and it will also be featured on the Discovery Channel.

Looking for new solutions

Our challenge is to identify and evaluate an effective insulating material. We need to develop and evaluate a fire-resistant material that will qualify for several hours of fire rating – giving occupants enough time to exit a structure safely.

Lawrence Tech researchers will evaluate a variety of products that will harden into a protective coating with a thickness

FRPs have become attractive materials for engineers working in the construction field, especially for strengthening existing reinforced concrete structures.

between one-eighth and one-quarter of an inch. We must develop applicable design guidelines for fire that will enable design engineers to predict the behavior of the FRP-strengthened, reinforced, prestressed concrete structural elements.

The first phase is to develop a new fire insulation coating for FRP prestressed and reinforced concrete. It will be a special recipe of cementitious material. Using the advanced testing equipment at CIMR, we will compare these prestressed test materials with a fire insulation material now in use.

The second phase of the experimental program will develop an innovative ductile hybrid fire-resistant FRP system for strengthening and stiffening applications. A ductile hybrid fabric (DHF) was developed recently by weaving yarns of high-modulus carbon fibers with low-modulus carbon fibers and glass fibers. The insulation system has to be strong enough not to delaminate, break, or crack during a fire and at the same time be affordable and easy to apply.



Lawrence Tech graduate student Mena Bebawy (L), the student team leader on the research project to test the added strength provided by ductile hybrid fabric (DHF), receives guidance from Nabil Grace on how to prepare concrete beams for testing.

A possible solution is the replacement of organic epoxy with inorganic epoxy based on such elements as alumina, alumina-silicate, or zirconia.

Additional benefits of research

One result of this investigation should be an enhanced scientific understanding of fire events. The knowledge that we gain could be used in a variety of applications.

This quest could also assist us in our ongoing research to develop innovative and advanced carbon fiber materials that reduce the weight of military vehicles and body armor while providing greater protection and durability. Carbon fiber could be used to improve the durability of wind turbine blades, and there are many other potential commercial uses for composite materials that have been developed and researched at Lawrence Tech's CIMR.

Since CIMR is part of a university, we see the additional opportunity to turn these research projects into a simplified design process that can be incorporated into FRP design courses at both the graduate and undergraduate level. Such courses will enable students to take into account the effect of fire events in their designs according to the type of construction and fire insulation system. ▲

Nabil Grace, PhD, PE, is a university distinguished professor, chair of the Department of Civil Engineering, and director of the Center for Innovative Materials Research (CIMR).

President Lewis N. Walker (L) was joined by Oakland County Executive L. Brooks Patterson and Congressman Joe Knollenberg in the front row when U.S. Marine Corps Major General Bradley M. Lott (ret.), who now coordinates defense contracts for the Michigan Economic Development Corporation, spoke at last spring's CIMR dedication ceremony.

MDOT designates center of excellence at Lawrence Tech

The Michigan Department of Transportation (MDOT) has designated the Department of Civil Engineering at Lawrence Technological University as a Center of Excellence for Sustainable Infrastructure and Structural Testing where research can improve the structural integrity and longevity of concrete bridges. This MDOT Center of Excellence will be located in the Center for Innovative Materials Research (CIMR).

MDOT engineers have asked Lawrence Tech to participate in the development and research of new ways to increase the longevity of bridges and decrease maintenance costs, according to MDOT Director Kirk Steudle, BSCE'87.

"Research is happening right here in Michigan at Lawrence Technological University that isn't happening anywhere else in the country. Lawrence Tech's Center for Innovative Materials Research is doing research on carbon reinforcement and testing that ultimately will result in bridge structures that will last longer than ever before. We are proud to partner with Lawrence Tech as the CIMR develops innovative technologies that will benefit current and future generations by improving the nation's infrastructure," Steudle said.

Grants from the Michigan Economic Development Corp. and the U.S. Department of Transportation are funding innovative research projects on the performance of concrete bridge components strengthened with carbon fiber instead of steel. Steudle and other state officials attended a test of two bridge models at Lawrence Tech in August.

Lawrence Tech's CIMR is a unique research facility that offers four ways to test materials used to reinforce concrete for bridges:

- Bridge components up to 100 feet long can be tested for stress under both static and repeated loads up to a million pounds of force.
- A fire/loading chamber installed in 2007 can test structural components up to 2,400 F and approximate conditions at the World Trade Center on Sept. 11, 2001.
- Nanotechnology testing equipment can measure such things as the tensile strength of carbon nanotubes (CNTs) in reinforced concrete.
- An environmental/loading chamber to be built in 2009 will measure the impact of both repeated and static loads in simulated climatic conditions ranging from Antarctica to equatorial South America. ▲EP



Basketball was just a game

for Lawrence Tech's All-American

Norm Hankins was one of the country's best college basketball players, but his top priority was always a good career after graduation.

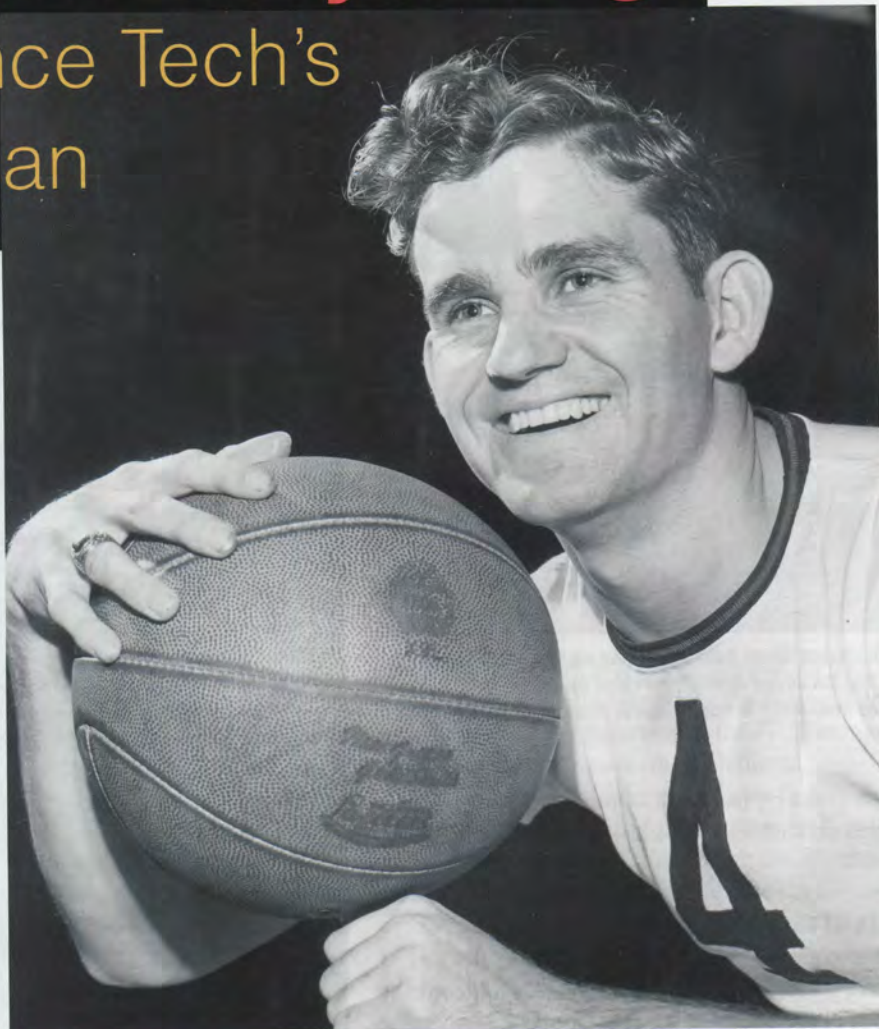
“Sensational Tech kids with a very tough schedule will thrill thousands with their flawless court magic.”

That was the breathless prediction of the December 1947 issue of *Sports Graphic* magazine, in its cover feature about Lawrence Tech's basketball team. Amazingly, every word of that hype turned out to be true as the team won 22 games and *lost just six.*

'Really, I felt that my education was the most important part. Playing basketball was important, but it was secondary.'

Leading the Blue Devils that season was Norm Hankins, who hailed then, as now, from Kokomo, Ind. The six-foot, 165-pound forward led the nation's major college players in scoring in 1947–48, averaging 22.7 points per game. He was selected by fans as an All-American and was also named to that year's All-NCAA Top Ten Leaders Team.

As one of the nation's top basketball players of the late 1940s, Norm Hankins is perhaps Lawrence Tech's most accomplished student athlete. Yet when his college days ended, he gladly gave up the limelight and returned to his Indiana hometown.



This 1947 publicity photo of Norm Hankins was shot by Snuffy McGill, Lawrence Tech's celebrated contract photographer whose photos were published around the country.

In those pre-TV, pre-NBA days, it was Lawrence Tech's basketball team that stirred the passions of Detroit area fans between December and March when the Red Wings were the only other game in town. Matches attracted some 6,000 spectators to the State Fair Coliseum or filled 1,200-seat Hackett Field House in Highland Park, which served as Lawrence Tech's home court when the Coliseum was not available.

Every game was followed by huge dances led by some of the most popular musicians of the era, including Tommy Dorsey, Skitch Henderson, Stan Kenton, and Woody Herman.

Some 70,000 fans attended Lawrence Tech home games during the 1947–48 season, while thousands more kept up with the team's exploits on radio. It was claimed to be the first time that play-by-plays of a college's entire home season were carried on that medium. Another first: several games were also broadcast on fledgling WWJ-TV to the paltry 2,500 area homes that had new fangled televisions.

Run-and-shoot basketball

Hankins was one of a trio of student players called the "Kokomo Kids." Guard Carl Campbell and forward Dave Talbert were

strong players who contributed to Lawrence Tech's Indiana-style basketball, but they couldn't match Hankins's scoring.

Lawrence Tech's affable coach, Don Ridler, had been influenced by basketball camps and coaching clinics he'd attended in Indiana that stressed a run-and-shoot offense. It was a style still foreign to much of the country. Ridler adopted the innovation and recruited the Indiana players to assure that Lawrence Tech had it down pat.

"We were running and shooting while other teams would be passing and taking set shots," Hankins recalled. "We played mostly zooming down the court, and that was a different style than many other teams."

In addition to his shooting prowess, Hankins also led the fast breaks with his blazing speed. He was clocked at 9.7 seconds in the 100-yard dash, just three-tenths of a second slower than what was then the world record.

"We relied on speed. Other teams were not maneuvering around players. We'd dart in and put the ball up. We'd take little hook shots and do lay-ups," he said.

Simple upbringing in Indiana

College life was a big change for a young man who had grown up in a rural area and whose home lacked indoor plumbing. His father was a crane operator for Continental Steel and the family raised much of its own food on a one-acre plot of land.

Even then, Indiana was a hotbed of frenzied basketball enthusiasm – the famous "Hoosiermania" – and his father encouraged him to practice. "Dad put a goal out in the yard and I shot baskets from sun up to sun down," Hankins said.

He walked a mile and a half to and from a four-room country school where he sat among three rows of seventh graders and three rows of eighth graders. When he was at Kokomo High School, where he was a near straight "A" student, he would



Hankins was an outstanding ballhandler who created opportunities for himself and his teammates with his constant movement.

sometimes walk five miles home after missing the bus in order to play baseball and run track. His basketball team made it to the last game of the state basketball finals in 1941.

Putting basketball on hold

Hankins met Ridler at a coaching clinic in Logansport, and in September 1942 he matriculated to Lawrence Tech and played a season. However, as the United States entered deeper into World War II, Hankins had to put his dream of becoming an accountant on hold. Ridler suggested the Navy's V-12 program, a competitive, accelerated college program that churned out officer candidates needed to lead U.S. naval and marine forces.

Hankins was transferred first to the Illinois Institute of Technology (IIT) and then Notre Dame in that program, and earned a BSME from IIT shortly before the war ended.

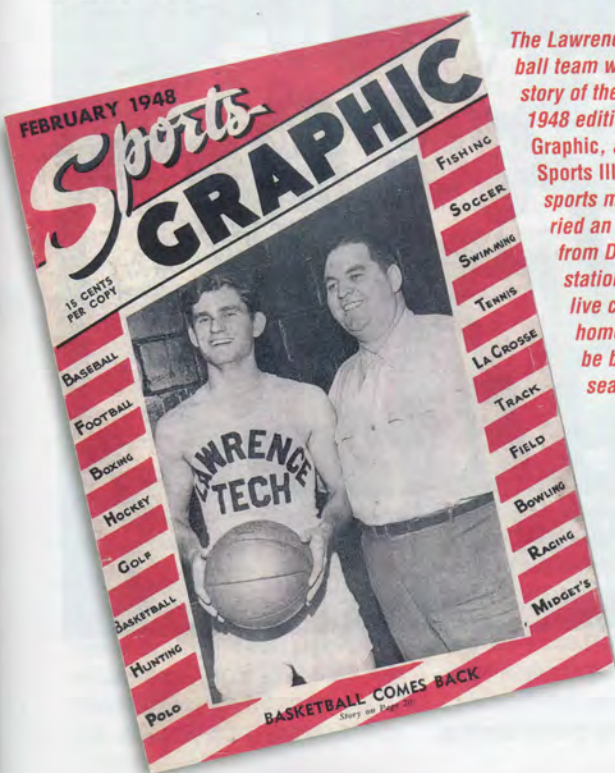
Returning to Lawrence Tech for two more years under the GI Bill and with a scholarship, Hankins pursued two more degrees – a BS in business administration and in industrial engineering. Upon graduation in 1949 he was awarded an honor key and inducted into Lambda Iota Tau honor society.

He also returned to Ridler's team.

"Coach Ridler's practices were not highly structured but we'd shoot and shoot," Hankins said. "We had four or five set plays. Defense was not emphasized like it is now."

He remembered that Ridler never swore in games or practice, nor did he get visibly upset. "He was large and jolly, but a very private person. He was extremely honest. Everything he promised to us, he fulfilled," Hankins said.

When traveling during the 28-game seasons, the team stayed at the best hotels and ate at fancy restaurants. Travel to distant games was usually by train, although Ridler twice arranged for then-novel airplane flights to Florida for practices over Christmas



The Lawrence Tech basketball team was the cover story of the February 1948 edition of Sports Graphic, a precursor of Sports Illustrated. The sports magazine carried an announcement from Detroit radio station WJBK that live coverage of all home games would be broadcast that season.



Norm Hankins pauses on his porch at his Kokomo home.

break. For the most part, life on the road was uneventful. "It was a different generation. Our team members didn't get into trouble. And there were no groupies," Hankins laughed. "Coach Ridler treated us all equally. Just because you were a star, you didn't get any special treatment."

Leaving the limelight behind

Following graduation, Hankins returned quietly to Kokomo and took a job with Continental Steel, his dad's old company, delighted to be offered \$243 a month. He steadily advanced over the next 10 years, and led the industrial engineering department for nearly 20 years before retiring in 1987.

He and his wife, Doris Ann, raised a son and two daughters. He continued playing basketball in industrial leagues for several years after graduation, then played some softball, and helped out coaching Little League teams.

In retirement, he and Doris Ann enjoy their tastefully furnished, modern condominium on a quiet cul-de-sac on the outskirts of industrial Kokomo – just a mile or so from where he grew up. Now in his mid-80s, he's still quiet and self-effacing, muscular and graceful, and light on his feet. He looks for all the world like he could still race down the court commanding the fast breaks that distinguished Lawrence Tech basketball 60 years ago.

Asked how he coped with the difference between his celebrity status in Detroit and the more anonymous life in Kokomo, Hankins says it wasn't hard at all. News of his nationally admired prowess on the hardwood mostly didn't filter back to his hometown.

"Really, I felt that my education was the most important part. Playing basketball was important, but it was secondary," he said.

Today's college ballplayers are often lured away by seven-figure salaries in the NBA, but Hankins dismissed the thought with a smile and little wave of his hand.

"I felt I was real lucky to go to Lawrence Tech. Oh, maybe I could have gone and worked for some other firm like Caterpillar, but really, I have no regrets. I had a lot of fun." **▲BJA**

Editor's Note: This story is based on a chapter in Bruce Annett's forthcoming book about the history of Lawrence Tech, which will be published in 2009.

Basketball impresario was also a one-man athletic department

A champion high school and MSU athlete and coach of Michigan's "pre-Lions" pro football franchise, Donald G. Ridler (1911–63) was recruited to Lawrence Tech by then-president E. George Lawrence in 1938.

Ridler's charge? Build school spirit and name recognition.

Ridler tackled the problem with gusto and soon fielded and personally coached varsity football, baseball, basketball, swimming, golf, tennis, cross country, and track!

World War II saw athletics suspended as students joined America's fighting forces or aided the design and manufacture of vital war materiel. In 1946, Ridler and Richard O. Frederick, public relations director, restarted the athletic program and put special emphasis on basketball, which attracted capacity crowds in the pre-TV, pre-NBA era.

Ridler's basketball teams represented Michigan at the National Association of Intercollegiate Basketball (NAIB) tournaments in 1942, '43, '47, '48, '49, '52, and '54. (The NAIB is today the National Association of Intercollegiate Athletics.)

In 1951, the Blue Devils played in the National Invitational Tournament (NIT) at Madison Square Garden – the smallest university, in terms of enrollment, to play in the NIT up to that time.

Due to rising costs and without a home practice and playing facility, Lawrence Tech discontinued most varsity athletics, including basketball, by 1965 in order to concentrate on improving academic facilities and programs.

In 1981, Ridler was posthumously elected to the Michigan Sports Hall of Fame. Six years later, Lawrence Tech's new field house was named in his memory.

Today, Lawrence Tech is examining ways in which a sustained funding program could be developed that would allow the University to re-enter varsity athletics and rekindle the school spirit that Ridler created so successfully **▲BJA**



Coach Don Ridler (in suit) shares a chuckle during one of the rare moments his team was not in motion: Carl Campbell (15), Ray Khoury (14), Norm Hankins (4), Bernard Appelblatt (7), Dave Talbert (10), John Bastien (9), and Charles Cacicedo (17).

Aeronautical engineering gets new wings

Lawrence Technological University has introduced a minor in aeronautical engineering, and students are once again competing in national competitions in what is one of the hottest areas of engineering.

In April, a Lawrence Tech team finished 16th in a field of 39 at the annual international SAE Aero Design East Competition in Marietta, Ga.

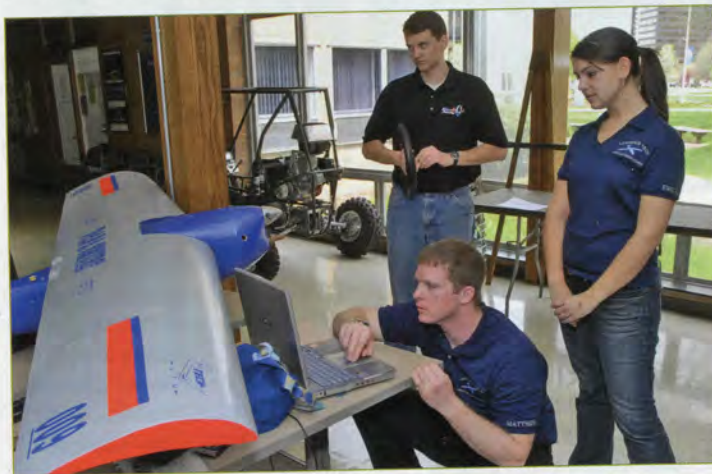
The new minor focuses on the fluid dynamic aspects of aerospace vehicles and also includes aerodynamics, structural mechanics, control systems, stability, noise and vibrations, and engineering materials aspects of aerospace vehicles.

Lawrence Tech had a degree program in aeronautical engineering from its founding in 1932 until 1953 when the aviation industry became heavily concentrated in California.

During the 1930s, Lawrence Tech students won so many national competitions for gliders that the championship trophy was permanently awarded to the University. In the late 1940s, Lawrence Tech students, many with wartime service as pilots,

designed, constructed and flew a racing plane in national competitions.

Alumnus H. Douglas Lowrey BME'41, who led the Chrysler space division that produced the launch vehicles used for the Mercury and Apollo missions, as well as the Jupiter and Redstone rockets, was among many Lawrence Tech graduates who played prominent roles in the aeronautics and space program.



Now new opportunities are emerging in the field. Recent Lawrence Tech graduates have been hired by NASA and major aeronautical and aerospace companies, including Cessna, Boeing and Adam Aircraft. Some of this activity is due to the increased competition in the commercial aircraft industry, recent initiatives for space exploration, and the growing market for "personal jet aircraft" known as very light jets (VLJ).

"This is one of the fastest growing engineering fields in terms of employment," said Andrew Gerhart, assistant professor of mechanical engineering who teaches aeronautics courses. "Degrees earned in the field have more than doubled since 1999." ▲EP

SAE Aero Design team members Matt Elwart and Erica Bieke make adjustments to Papa Smurf, Lawrence Tech's 2008 entry, during the University's annual open house in April. SAE Baja team leader Greg Johnson is behind them.

ALOEterra Solar House opens in Troy as educational center

The energy self-sufficient house that Lawrence Tech students built last year for the Solar Decathlon competition in Washington, D.C., has started a second life as a center for sustainability education in Troy.

In October President Lewis N. Walker joined Troy Chamber President Michele Hodges, Troy Mayor Louise Schilling, Oakland County Executive L. Brooks Patterson, and other leaders in reopening the house that is now located next to the Troy Community Center.

The next day hundreds of people toured the ALOEterra house when it opened to the public for the first time. Members of Lawrence Tech's 2007 Solar Decathlon team were on hand to talk about the many energy-saving

features of the house that are commercially available. They explained how the structure's electrical and environmental systems work on solar energy alone.

The Lawrence Tech team demonstrated that a house can be both energy self-sufficient and livable when they competed in the 2007 Solar Decathlon organized by the U.S. Department of Energy in Washington, D.C. As faculty advisor Philip Plowright explained, the underlying purpose of that competition was to publicize ways that the American public can help reduce energy consumption.

Troy Chamber President Michele Hodges spearheaded the effort to turn the house that was built for seven days of competition into an educational center that will promote energy sustainability for

many years to come. Congressman Joseph Knollenberg helped make the transition possible by securing a \$350,000 federal grant for the city.

Putting the house back together wasn't exactly easy, especially

since it had been disassembled twice for the trips to and from Washington. Associate Provost Joseph Veryser and Adjunct Professor Harold Remlinger made sure that everything got done in time for the grand reopening. ▲EP



Cutting the floral roping to officially open the ALOEterra Solar House in Troy are (L-R) District Director Shawn Ciavattone of Congressman Joseph Knollenberg's office, State Rep. Marty Knollenberg (R-Troy), Troy Chamber President Michele Hodges, Oakland County Executive L. Brooks Patterson, Lawrence Tech President Lewis N. Walker, Troy Mayor Louise Schilling, and Troy Chamber Board Chair John Bailey.

Student team answers Ford's Model T challenge

A team of Lawrence Tech transportation design students have developed a wide-ranging design and manufacturing plan for a concept car that embodies the main characteristics of the Ford Motor Co.'s iconic Model T of a hundred years ago.

In conjunction with the 100th anniversary of the introduction of the Model T in 1908, Ford challenged five university teams to design a vehicle intended for the global market that shares the original Model T's attributes – simple, lightweight, practical, compelling, and inexpensive. The goal is a vehicle that can be priced below \$7,000.

Lawrence Tech and the four other universities each received \$75,000 in funding from Ford Global Technologies LLC to support the creation of a vehicle concept.

Teams from Germany and Australia took the top prizes, although Ford officials said that the Lawrence Tech proposal could result in a trademark application



Two students in Lawrence Tech's transportation design degree program meet the chairman of Ford Motor Co. in connection with the university competition to design the Model T concept car for this century. In the photo (L-R) are faculty advisor Keith Nagara, William Clay Ford Jr., and students Taylor Manuilow and Chris Nichols.

and multiple patent applications. Ford released few details about the submissions in the competition.

Lawrence Tech students Taylor Manuilow, Chris Nichols, David Boehmer, William Consiglio, Benjamin Graf, Jason Falenski, Jessica Cojeen, and Kyle Pos worked throughout the summer and submitted a video and booklet

outlining their proposal in early September.

Many team members are starting their second year in Lawrence Tech's new transportation design degree program. They have been working with faculty advisors and co-founders of the degree program Keith Nagara, now the director of the transportation degree program,

and Vance Hanna, the new chair of the Department of Art and Design.

The Lawrence Tech entry, dubbed MyT, is based on the original Model T concept of manufacturing identical vehicles, only this time with an aluminum frame. The team expanded on that concept by planning for customization at the dealership where the customer would select both exterior and interior accent panels and decals and digitally program in specifications such as seat configuration.

"Henry Ford designed the Model T with flexibility to be tailored to customers' needs, which is exactly what our team did with the MyT," Nagara said.

The vehicle would be designed for easy disassembly into separate materials, thereby making recycling much more practical. Customers would get a deposit return on the aluminum in the car. An electronic device would enable customers to keep track of the carbon footprint of their use of the vehicle, thereby encouraging them to drive responsibly and act as stewards of the environment. ▲EP

Jensen wins \$400,000 CAREER award for fire research

Elin Jensen, assistant professor of civil engineering, has won a \$400,000 Faculty Early Career Development (CAREER) grant from the National Science Foundation for her work on the mechanical behavior of concrete and structural elements exposed to severe fire.

The effects of severe fire on concrete are not well understood, and there is a lack of engineering data and models needed to design concrete structures to withstand a severe thermal environment. Jensen's project will develop thermo-mechanical models of concrete under fire and loads.

The award will fund experiments to be conducted over a five-year

period at Lawrence Tech's Center for Innovative Materials Research (CIMR). Jensen will use CIMR's new large-scale fire/loading chamber that can test structural components in temperatures up to 2,300 degrees and simulate the conditions created by real fires of various types and duration. The test results will provide experimental validation of material and structural behavior needed as input in future performance-based design methods for structural fire safety.

Jensen earned her Ph.D. in civil engineering at the University of Michigan in 2002 and joined Lawrence Tech in 2003. Her major areas of teaching and research are

mechanical behavior of structural concrete used in building and infrastructure systems.

She is director of the civil engineering graduate program at Lawrence Tech and serves as

advisor to Lawrence Tech's steel bridge team and concrete canoe team. She is the first faculty member at Lawrence Tech to receive an NSF CAREER award. ▲EP



Lawrence Tech Assistant Professor Elin Jensen explains to civil engineering students how the fire/loading chamber in Lawrence Tech's Center for Innovative Materials Research can help evaluate the performance of concrete during and after a severe fire.

Element One team to race hydrogen-powered kart next spring

Students on Lawrence Tech's Element One team look forward to a second Formula Zero racing event next spring in Columbia, S.C., after last-minute glitches prevented their zero-emissions, hydrogen-powered kart from getting out on the track in time to compete in the first race held in Rotterdam in August.

However, their "clean machine" with its unique carbon-fiber body received top marks from the judges for design and was featured in the September issue of *Popular Science*.

Formula Zero BV, a Dutch racing organization, gave Lawrence Tech's entry the award for best design in March when teams from the United Kingdom, Netherlands, Belgium, Spain, and the United States were selected for the 2008-09 race series. Each team was given a Hydrogenics HyPM8 fuel cell to use, courtesy of the Rotterdam Climate Initiative.

The student teams designed go-kart-sized vehicles with room for a driver as well as the fuel-cell package, a hydrogen tank, an

electric motor, and ultracapacitors to provide rapid acceleration. Lawrence Tech's entry is seven feet long, five feet wide, and capable of over 60 mph.

Faculty advisor Rob Fletcher, associate professor of mechanical engineering, and almost 20 members of the Element One team were ready to go on race day, only to be told by the organizers that they needed more clearance in order to run the kart on the rough surface of the course. By the time they got the kart running again after making the changes, it was too late.

They will get at least one more chance when the National Hydrogen Association hosts a Formula Zero Student Edition Championship race at its 20th anniversary conference and hydrogen expo in South Carolina March 30-April 3.

Element One team members believe they have an advantage because they built the kart's platform out of carbon fiber, a lighter, stronger replacement for steel that has been tested extensively at Lawrence Tech's Center for



Lawrence Tech's team had to make last-minute adjustments to the race kart in the pit tent at the racing venue in Rotterdam. From left to right are Rob Jackson, Andrew Schembri, Ben Roberts, Rob Bitel, and Jon Graff.

Innovative Materials Research.

"Rather than going with a steel tubular frame like most of our competitors, we built a 100 percent non-tubular carbon-fiber frame, which is normally used in the airline industry. It makes our kart 40 pounds lighter," said Camille Robbins, BSME'08, who served as body and chassis team leader.

The overall goal of Lawrence

Tech's team is to change the way people think about energy and sustainability through high-performance, zero-emissions racing. The team hopes that participating in the racing series will increase public awareness and industry support of hydrogen fuel cell technology.

For more, visit formulazero.nl and Lawrence Tech's team website, ltfz.com. ▲EP

New wind tunnel gets a boost from Chrysler

The \$57,000 wind tunnel that the Department of Mechanical Engineering has installed in the Applied Research Center is being equipped with diagnostic equipment funded by a \$30,000 grant from the Chrysler Foundation.

The Lawrence Tech-blue wind tunnel is 33 feet long. The 50-horsepower motor can generate wind speeds up to 190 mph through a test section that is 18 inches square and 3 feet long. The grant from Chrysler has paid for force measurement equipment, a flow-visualization smoke machine, velocity and pressure sensors, and other diagnostic equipment.

Among the first students to benefit from the new testing equipment have been members of the

SAE Aero Design team who take readings on model airplane components developed for national competition. There will be many other applications for students in both mechanical engineering and civil engineering.

"It will also be useful for students in the transportation design program in the College of Architecture and Design and for students participating in outside competitions like Formula Zero or Formula SAE," said Associate Professor Andrew Gerhart. "The possibilities of what we can do with this are endless."

Gerhart anticipates inviting high school science teachers and their students to use the tunnel for experiments they're working

on. "It's a great chance to get kids excited about science and a great opportunity to show off Lawrence Tech's facilities," he said.

He also expects local businesses to use the wind tunnel for calibrating their own measuring

equipment and conducting small-scale experiments.

"A wind tunnel is a lot like a hobby," Gerhart added. "There are always new ways you can use it. There are always new things you can try. I'm sure our students, faculty, and grads will find lots of different ways to test it out." ▲EP



Associate Professor of Mechanical Engineering Andrew Gerhart shows students the new wind tunnel in the Applied Research Center.

Shetty sets ambitious agenda for the College of Engineering

Less than a year after arriving on campus as the new dean of the College of Engineering, Devdas Shetty is striving to enhance and strengthen Lawrence Tech's position as a leader in engineering education with regional recognition and national prominence.

"Over the past several months I have had the opportunity to study in depth our curriculum, faculty, and relationship with industry," said Shetty, who was previously dean of research, director of the engineering applications center, associate dean of the College of Engineering, and a professor in manufacturing engineering at the University of Hartford in Connecticut.

A registered professional engineer and a pioneer in the field of mechatronics, Shetty holds four patents for inventions involving the interdisciplinary areas of mechanical engineering, electronics, and computer science. He received his doctorate in mechanical engineering from the Indian Institute of Technology in Delhi.

Shetty meets with the College's department chairs regularly to develop specific action plans to achieve both short-term and long-term goals. This collaborative process has resulted in a set of current goals as well as a longer-term blueprint plan, "A Vision for the College of Engineering."

Working closely with Lawrence Tech's Office of University Advancement, Shetty is reaching out to alumni and donors and encouraging them to get involved with faculty and students. Reactivating the College of Engineering Board of Advisors will facilitate this effort.

During the current academic year, the College of Engineering will continue to promote the new architectural engineering and industrial operations engineering degree programs and be actively involved in industry-sponsored projects that give students the

advantage of hands-on experiences.

In addition, the College will promote its existing international relationships and improve laboratory facilities in the biomedical engineering program.



Devdas Shetty

Looking to the future

The long-term planning blueprint is still a work in progress subject to further study and approvals.

"We want to make sure that these plans can be implemented. We need to determine what is realistic and what is not," Shetty explained. "We have a lot of opportunities. I am particularly interested in new product design and engineering technology programs."

Areas where the dean sees potential for new academic initiatives in the next four or five years include:

Energy engineering – Shetty hopes to build on the success of the Alternative Energy Engineering Lab established by Associate Professor Robert Fletcher with investigation of different sources of energy and energy conservation, and integration of the economic, logistical, and political issues in each energy field. Future studies could focus on alternate energy sources such as solar, wave and wind, and power generation technologies such as batteries and fuel cells.

Materials engineering – The Center for Innovative Materials Research under the leadership of University Distinguished Professor Nabil Grace continues to offer new opportunities to students and faculty members. New materials and associated applied research could greatly expand those opportunities.

Biomedical engineering – Biomedical engineering has been the fastest-growing degree program at Lawrence Tech. Shetty

predicts even greater cooperation with the College of Arts and Sciences as the University adds new facilities and explores new degree programs.

Product design – This is a newly emerging discipline that responds to the rapidly evolving needs of industry. Shetty foresees academic programming designed to be useful to students coming from a variety of disciplines, not just engineering.

Mechatronics – Lawrence Tech has a growing program in mechatronics system engineering at the graduate level, thanks to the leadership of Professor Vladimir Vantsevich. Shetty sees the poten-

tial for more growth since there is a strong demand in the auto industry for a blend of electromechanical and computer engineering disciplines.

Engineering technology – This is another area where Shetty sees opportunities for growth.

"As we continue to enhance facilities for our students to work in teams and develop leadership, a concerted effort is being made to achieve the regional, national and global recognition which is essential in attracting top-quality students, faculty, and staff in addition to attracting much merited philanthropic support," Shetty said. ▲*CM*



Dean Devdas Shetty (R) goes over an agenda for a faculty meeting at the College of Engineering with Steven Howell, associate provost and dean of graduate studies.

Steel Bridge Team repeats as regional champions



Members of Lawrence Tech's Steel Bridge Team – (L-R) Joseph Wallace, Michael Mitchell, Erica Hume, and Jacob Van Horn – had a lot to celebrate after finishing first in four out of six categories to win the North Central Regional Conference competition. At nationals held at the University of Florida in May, Lawrence Tech placed in the top 10 in three of the six categories and ended up 15th in a field of 42. The team did very well in display, stiffness, and structural efficiency.

Mechatronics program: 'two for the price of one'

When employers hire a graduate of the groundbreaking master of science in mechatronic systems engineering (MSMSE) program at Lawrence Tech, they get two engineers for the price of one.

As the name suggests, mechatronics – a combination of “mechanics” and “electronics” – cuts across multiple academic disciplines. An engineer skilled in mechatronics can create a seamless and unified system for a specific project that encompasses the principles of the different disciplines involved while at the same time fulfilling the specific requirements of each.

While mechatronics degree programs are common in Europe and Asia, they remain rare in the United States.

“Electrical and mechanical engineers speak different languages. So when you hire one student from our program, it means you buy one and get another one ‘for free,’” explained Vladimir Vantsevich, professor of mechanical engineering and director of the MSMSE program.

Vantsevich earned his doctorate in ground vehicle engineering from the Belarusian Polytechnic Institute in his native Belarus. Prior to join-

ing the Lawrence Tech faculty in 2001, he had nearly three decades of experience in designing driveline systems for multi-wheel-drive vehicles and automatic control systems for enhanced vehicle dynamics and performance.

In 2005 Vantsevich first proposed developing an MSMSE program at Lawrence Tech, and buy-in was immediate. The program was formally launched in 2006 with five students enrolled. Two years later, the roster has grown to 36 students. As the program continues to grow and its reputation spreads, Lawrence Tech’s experience will likely serve as a model for other

institutions, said Vantsevich.

Jason Spina, one of the first students to enroll in the MSMSE program, is applying what he learned at Lawrence Tech to his position at General Dynamics Land Systems, where the next generation of Army tanks is being created.

“Dr. Vantsevich has put together a great program with advanced laboratory facilities and a terrific cast of instructors. They each have their own area of expertise and their own teaching style, but they really get through to the students, especially because the class sizes are so small,” he said. “It’s been challenging, but it’s been very rewarding.”

Mechatronics graduates like Spina will have a wide choice of career opportunities in such areas

as aviation, space, industrial robotics, and military transportation, in addition to the auto industry. Graduates will also be able to apply their knowledge to fields as varied as autonomous vehicle engineering and defense systems, biomedical engineering material processing, media communications, and many others.

Lawrence Tech’s MSMSE program benefits from the guidance of an International Industry Advisory board comprised of more than 20 engineers and executives from the U.S. Army’s Research Development and Engineering Command’s Tank Automotive Research, Development and Engineering Center (TARDEC), the three U.S. automakers, Toyota Technical Center USA Inc., Kistler Instrument AG, dSPACE, Daimler, Johnson Controls Inc., Eaton Corp., Robert Bosch Corp., KUKA Robotics, National Instruments, MathWorks, and MSC Software Corp.

The Mechatronics Systems Laboratory, which opened in 2007, features equipment and software valued at \$500,000 that was contributed by Robert Bosch Corp., dSPACE, Eaton Corp., Festo Corp., Kistler Instrument AG, KUKA Robotics, and National Instruments. Chrysler Corp. contributed nearly \$50,000 for academic support programs and also donated hardware. In addition, guest lecturers from the industry and TARDEC teach in the mechatronics program.

As a result of this support, students gain access to information that is normally proprietary and rarely shared outside a company. In return, companies get exposure for their products with both practicing and future engineers, and often gain access to valuable research data that can be used to improve or develop new products and processes. ▲CM



Vladimir Vantsevich



Professor Vladimir Vantsevich goes over some of the analytical and adaptive dynamics principles that form the basis for modeling mechatronics systems.

Leader and Innovator of the Year



Velcura Therapeutics CEO Michael Long was named 2008 Grant Thornton Leader and Innovator of the Year as part of a business recognition program co-sponsored by Lawrence Tech, WWJ Newsradio 950, and the Great Lakes IT Report. Attending the awards program held in the UTLC gallery in May are (L-R) Grant Thornton LLP Partner Terry Conley, WWJ’s Great Lakes IT Report Editor Matt Roush, Long, Lawrence Tech President Lewis N. Walker, and NextEnergy CEO Jim Croce, the 2007 award recipient. For more about the weekly profile series, visit ltu.edu/leaders.

How I spent my summer vacation: teaching in China

What better way to learn what the Chinese people are really like than to teach elementary and middle school students? That's what three Lawrence Tech staff members, four students and an alumnus did over summer vacation.

The trip to China was led by Melissa Grunow, the University's leadership curriculum coordinator. She was joined by Leslie Wilson, coordinator of student activities; Eula Muckleroy, program coordinator for the King-Chavez-Parks (KCP) grant; students Courtney Bufalini, Michael Dalessandro II,

Nikki Steiner, and Keisha Watkins; and Ramiz Habba, BSBM'08.

During July, the group taught English and American culture to 10-12-year-olds at Changxing Victoria Foreign Language School and 13-15-year-olds at Huzhou #4 Middle School, located in rural areas about three hours from Shanghai. The English summer camp program was organized by the Council on China Exchange based in California.

For months prior to the trip, the group practiced lesson plans and prepared classroom skits, songs,

dances, and games to introduce new English vocabulary words and develop speaking and comprehension skills. They heard from two China natives on the Lawrence Tech staff, Wenping Bo and Jing Sellers.

"But nothing could really prepare us for the culture shock of being in a developing foreign country. We were constantly reminded that we had come into a world, a culture, a way of life that we would have never understood otherwise," Grunow said.

The Lawrence Tech group learned to live and work closely with each other for a month in an unfamiliar place, with unusual food, unbearable heat, and uncomfortable beds. But it didn't matter,

because the interactions they had with the students made each adjustment worthwhile.

On most evenings, the Lawrence Tech volunteer teachers went to students' homes for dinner. They witnessed the details of everyday life in China that tourists never see, such as beds that were even stiffer than the hotel mattresses, old Chinese pottery sitting on bookshelves, laundry drying on patio clotheslines, and even two pet turtles living in a bathtub. Parents who did not know any English taught them Chinese brush writing, board games, and how to make dumplings and wontons.

The immersion into a foreign culture was a good opportunity for the volunteers to develop their leadership skills, which is why many of the students chose to participate in the program.

Grunow said she will never forget being cheered by her students every morning when she and her teaching teammate walked into the classroom.

"When I remember China, my most distinctive memories will be those students who taught us just as much as we taught them – maybe even more," Grunow said. ▲EP



The Lawrence Tech group that went to China over the summer to teach English at two summer camp programs included (L-R) Nikki Steiner, Melissa Grunow, Courtney Bufalini, Ramiz Habba, Eula Muckleroy, Mike Dalessandro II, Keisha Watkins, and Leslie Wilson. Behind them is a map of Nanxun, where they were headed on a day off.

Lawrence Tech finishes second in key IGVC event

A team of Lawrence Tech students studying computer science, mechanical engineering and electrical engineering finished second in the autonomous challenge, the main event of the 16th annual Intelligent Group Vehicle Competition (IGVC) held this year at Oakland University.

Forty-seven teams from 39 universities designed and built model vehicles that navigated obstacle courses without human guidance using computer vision and complex computer programming.

Lawrence Tech won the second-place prize of \$2,500 in the autonomous challenge with the Viper, a vehicle designed, built and

programmed from scratch this year.

"It was a tremendous accomplishment to do so well with a vehicle that had been developed from scratch," said Associate Professor CJ Chung, the team's faculty advisor.

Lawrence Tech and Hosei University of Japan were the only recipients of the Level 3 cash prize of \$500 in Joint Architecture for Unmanned Systems (JAUS).

The purpose of the competition is to promote the development of automated and intelligent vehicles that can have both civilian and military applications. Sponsors include Microsoft Robotics,

General Motors Corp., Raytheon, the Department of Defense, the Air Force Research Laboratory, and

the Joint Center for Robotics associated with the U.S. Army Tank Automotive Research Development and Engineering Center (TARDEC). ▲EP



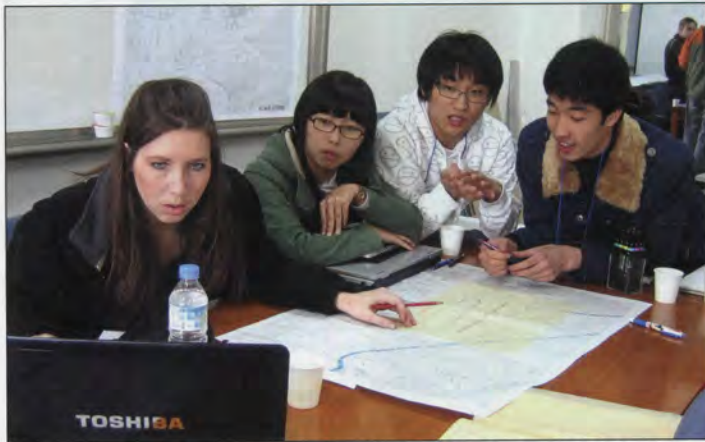
The Lawrence Tech team tried to stay out of the sun while making last-minute adjustments to the Viper during the Intelligent Ground Vehicle Competition (IGVC) held at Oakland University. In the photo are (L-R) faculty advisor CJ Chung and students Shawn Ellison, Jeremy Gray, Phil Munie, and Doug Stevens.

Detroit Studio students find common ground in urban planning in Korea

Associate Professor Joongsub Kim of the Detroit Studio and four architecture graduate students traveled to South Korea over spring break to participate in an urban design workshop on mar-

ginalized areas in a Korean city. It was the first part of an exchange program that will bring Korean students to Lawrence Tech to work on solutions for Detroit.

The Marginal City/Reciprocal



City Workshop paired Detroit with the Korean city of Chungju, another industrial center that has lost much of its manufacturing base. It was an eye-opening experience that broadened the students' understanding of architecture and urban design. They saw that Detroit faces challenges that are being experienced elsewhere around the globe. They learned that architecture and urban design can cross cultures and geographical boundaries. Lessons learned in Korea can provide a new perspective on problems faced in Detroit.

The Detroit Studio students and Chungju students divided into four

groups to work on sites that had been marginalized from the city fabric due to changes in political structure, introduction of new buildings, and a loss of population owing to economic decline and migration of residents to Seoul, the capital of South Korea.

Although the Korean students spoke some English, the Lawrence Tech students quickly realized that they had to alter the way they communicated. Since they couldn't rely on verbal explanations, they had to communicate in the universal language of architecture – drawings, diagrams, and maps.

"I was amazed that we had managed to develop an entire design concept by pointing to maps, using hand gestures, and drawing our ideas rather than speaking them," said graduate student Christine Freundl.

To learn more, see the Detroit Studio link at ltu.edu/architecture_and_design. ▲EP

Detroit Studio graduate student Heather Moldenhauer finds a way to communicate her ideas for an urban design solution to Korean students during a workshop held over spring break at Chungju University in South Korea.

Taubman Student Services Center wins LEED silver certification

The A. Alfred Taubman Student Services Center at Lawrence Tech has earned the coveted silver certification through the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

Arthur Smith, BSAr'78, BAR'81, of Harley Ellis Devereaux in Southfield, led the design team for the three-story, 42,000-square-foot Taubman Center that uses geothermal energy for heating and cooling, and a 10,000-square-foot vegetated roof and a bioswale to manage water runoff. A series of clear panels integrated into the raised access floor gives students a view of the under-floor mechanical and electrical systems.

The LEED rating system established by the U.S. Green Building Council (USGBC) has become the nationally accepted benchmark for

the design, construction and operation of high-performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site

development, water savings, energy efficiency, materials selection, and indoor environmental quality.

The Taubman Center, which officially opened in April 2006, has also won:

- Design Honor Award, American Institute of Architects (AIA) Michigan.
- National Honor Award, The American Council of Engineering Companies (ACEC).

- Engineering Eminent Conceptor Award, ACEC Michigan and Michigan Society of Engineering Professionals
 - Large Development of the Year, City of Southfield
 - Presidents Award, Keep Michigan Beautiful
 - Design Award, Construction Association of Michigan (CAM)
- ▲EP

Granholm goes back to school at Lawrence Tech



During a February visit to the Alternative Energy Engineering Lab at Lawrence Tech, Michigan Gov. Jennifer Granholm got a quick lesson in how to use CATIA V5, an engineering computer-aided design (CAD) platform widely used in the aerospace and automotive industries. Lawrence Tech student Raj Daftuar (R) showed Granholm how to make design changes. Granholm visited Lawrence Tech to talk to faculty and students about alternative energy initiatives at the University, which run the gamut from solar, wind, hydrogen, geothermal, and other studies.

College of Management hosts Nobel Peace Prize winner

In April, the College of Management launched its Center for Global Leadership and Understanding Speakers' Series by hosting Shirin Ebadi, who won the Nobel Peace Prize in 2003 for her work as an Iranian human rights activist.

Ebadi spoke about creating a more humane and sustainable world community led by global thinkers and global leaders. The inaugural event theme, "Learning to Lead, Live, and Work in a Global Society," focused attention on the importance of understanding other cultures.

Ebadi was awarded the Nobel Peace Prize for her pioneering efforts in democracy and human

rights, especially for the rights of refugees and women and children. She was the first Iranian and the first Muslim woman to receive the prize. The founder and leader of the Association for Support of Rights in Iran, she has had several books translated into English.

The Center for Global Leadership and Understanding of the College of Management at Lawrence Tech was established to prepare leaders for the global challenges of the 21st century.

The center seeks to create a community of like-minded individuals who desire to understand the human condition beyond national boundaries. Through research and

scholarship opportunities, alliances with global organizations, and international study and travel, the center aims to be a leading force for global leadership and cultural

understanding.

For more on the Center, call 248.204.3050 or visit ltu.edu/management/_global_leadership.asp.

▲EP



Lawrence Tech President Lewis Walker reads questions for Nobel Peace Prize winner Shirin Ebadi and her interpreter, Sherin Eshadi (R) during a program at Ridler Field House last spring.

Romney puts Lawrence Tech in the spotlight



Lawrence Tech received national and international exposure when Republican presidential candidate Mitt Romney held a rally on campus in January. Hundreds of Romney supporters filled the Buell Building atrium, making it a highlight of Romney's successful campaign in the Michigan primary. The former Massachusetts governor is the son of the late George Romney, a governor of Michigan who ran for president 40 years ago. Photos from the Lawrence Tech rally were in dozens of newspapers across the country and overseas, and C-Span and CNN covered the event.

Lawrence Tech debuts weekend MBA International program

This fall Lawrence Tech's College of Management introduced the new weekend MBA International program that prepares business leaders and future executives for the challenges of the global economy. Topics include global leadership, global organization and change management, global technology and innovation, and global strategy.

Senior-level managers and executives serve as mentors, and students gain first-hand experience with the global economy during a study component in one or two

international locations. The MBA International shares the same core competencies of Lawrence Tech's popular weekend Career-Integrated MBA program and integrates a number of topics from the Master of Global Leadership and Management program developed at Lawrence Tech for civilian leaders in the U.S. Army.

To learn more, contact Virginia Kirkwood at 248.204.3076 and kirkwood@ltu.edu or go to ltu.edu/management/international_mba.asp. ▲EP



Lawrence Tech Associate Professor Jacqueline Stavros works with students in the College of Management's MBA International program.

Online degree programs continue to gain popularity

Students can earn six different degrees or certificates at Lawrence Technological University without ever setting foot in a classroom, and LTU Online expects to add several more fully online certificate programs and three more degree programs that are substantially online next year. Online learning is an option that has proven particularly popular with students who have been transferred to another work location or have moved out of state.

In 2006, the Higher Learning Commission of the North Central Association of Colleges and Schools gave its approval for three Lawrence Tech degrees to be taught completely online – a master's degree in business administration, a master's degree in engineering management, and a bachelor's of science degree

completion program in information technology. There are also graduate certificate programs in project management, nonprofit management, and architectural management available completely online.

Close to 500 Lawrence Tech students are taking more than 40 different courses online each semester.

"Students who have left Michigan or are working outside the region on a long-term basis are an emerging market for us," said LTU Online Executive Director Alan McCord. "We're also getting some students who want to pick up online where they left off at another university."

McCord expects LTU Online to

roll out an online master's degree in education technology early next year. By next summer there should be online master's degree programs in architecture and interior design. All three will have a very limited classroom component.

LTU Online focuses on degree and certificate programs, while Lawrence Tech's Veraldi Instructional Technology Resource Center (VITRC) helps faculty members migrate some of their coursework online. More and more students like a hybrid approach to education that mixes online components with classroom work, and many routinely enroll in a mix of traditional, hybrid, and fully online classes.

"Choice is important," said McCord, "as some students prefer traditional instruction over online instruction. But circumstances change, and Lawrence Tech is working hard to provide the greatest flexibility to our students." ▲EP



LTU Online Executive Director Alan McCord (L) leads a staff consisting of William Drummond, Rachel Cronover, BSA'06, BFAI'06 (seated L) and Diane Cairns, MBACI'01

Dr. Larry Johnson Conference Room Dedicated



Last December the College of Arts and Sciences dedicated the Dr. Larry Johnson Conference Room with the unveiling of his portrait. Johnson led the business management bachelor's degree program before his death in February 2005, and a \$20,000 bequest from him helped create the conference room as part of a remodeling of the dean's suite. Among those attending the ceremony were (L-R) University Advancement Vice President Stephen Brown, President Lewis N. Walker, Johnson's daughter Whitney Schillack, Ken Bresnay, Professor James Rodgers, and Dean Hsiao-Ping Moore.



Architecture students study in Paris

A group of undergraduate and graduate students in the College of Architecture and Design spent a month in Paris over the summer taking a course that provides an international perspective on art, design, urban design, and architecture. The students visited museums, cathedrals, parks, and historic sites as part of their studies. In the photo are (L-R) Heather Haislet, Lecturer Gretchen Rudy, Leo Betz, Sonia Montaleone, Brittany Rogoza, Katherine Little, Jeff Frederick, Rachel Smith, Jen McGlynn, Professor Steven Rost, and Ellen Rotter. Lecturer Donna Voronovich also was part of the trip.

Marburger awards continue to recognize excellence

The Mary E. and Richard E. Marburger Excellence in Achievement Award for 2008 went to Robert Fletcher, associate professor of mechanical engineering for the faculty, LTU Online Executive Director Alan McCord for the administration, and Ammar Abdulhad, the operations specialist at the Computer Help Desk, for the staff.

Associate Professor Joongsub Kim, director of the Detroit Studio in the College of Architecture and Design, won the Marburger Distinguished Achievement Award: the Champion for Institutional Excellence and Preeminence.

Fletcher joined the faculty in 2003 to establish the alternative energy engineering program and currently serves as director of the Alternative Energy Engineering Lab. He is faculty advisor for the Element One team that is in the international Formula Zero racing competition for karts powered by a hydrogen fuel cell.

Many students nominated Fletcher as the Marburger faculty member. "Dr. Fletcher is really devoted to his students.... He is willing to go out of his way to help students with classroom problems and real life problems," one student wrote.

McCord joined the College of Management faculty in 2003 and is now the director of LTU Online. "Al is an innovator par excellence. He has done more than anyone I know of over the past few years to move LTU forward in the area of technologically enhanced learning,"



Attending this year's Marburger Awards ceremony are (L-R) Associate Professor Robert Fletcher, Mary Marburger, President Lewis N. Walker, LTU Online Executive Director Alan McCord, President Emeritus Richard Marburger, Ammar Abdulhad of the Computer Help Desk staff, and Associate Professor Joongsub Kim.

a Lawrence Tech staff member wrote.

Abdulhad joined the Computer Help Desk staff in April 2006 and was promoted to operations specialist in February 2007. In nominating Abdulhad for the Marburger Award, co-workers noted his dedication to his job, the long hours he puts in and the tireless assistance that he offers to staff members and others who need help with their computers. He is known as the "go-to guy" for user problems.

Kim began teaching in architecture and design in 2000 and coordinates the Graduate Urban Design Program. He is also director of the Detroit Studio located in the New Center area of Detroit, where students study urban planning issues for specific neighborhoods in Detroit and other municipalities.

"Dr. Kim wears many hats ... and he handles each of his duties with the utmost attention and detail. He has a dedication and passion that is wonderfully contagious," a staff member wrote.

▲EP

Three departments welcome new chairs

The new academic year started with two new department chairs in the College of Architecture and Design and one in the College of Arts and Sciences.

Associate Professor Daniel Faoro has been named interim chair of the Architecture Department, succeeding Associate Professor Edward Orłowski who has returned to full-time teaching.

Faoro came to Lawrence Tech in 2000 and has taught the Structures course, design studio at third- through fifth-year levels, and undergraduate thesis students. He is a licensed architect with a master's degree in urban design from Harvard University.

Vance Hanna has been named chair of the Department of Art and Design, succeeding Professor Virginia North, who remains assistant dean of graduate studies.

He has taught at Lawrence Tech since 1998 and in 2007 became co-director of the newly created transportation design program.

Hanna has worked in the automotive and allied manufacturing fields as a designer and consultant. He currently is consulting to Daimler trucks and Volvo/Mack Trucks. He has a master's degree in product design from Stanford University. He has won awards for

his jewelry, and his Hanna lamp, a handmade bonsai-styled bronze and glass accent piece, has been sold in both Japan and Europe.

Associate Professor Melinda Weinstein is the new chair of the Department of Humanities, Social Sciences and Communication (HSSC). She succeeds Associate Professor Betty Stover, who has returned to the faculty in English.

An active scholar in mythology

and English literature, as well as an artist and a poet, Weinstein joined the faculty in 2000 after completing her Ph.D. in literature at the University of California, Santa Cruz.

As department chair, Weinstein is leading several important strategic initiatives, including the new Quest Program, a co-curricular experiential learning initiative for students who are earning bachelor's degrees from the College.

▲EP



Daniel Faoro



Vance Hanna



Melinda Weinstein

Steenkamp wins Horltd Award for Excellence in Teaching

Lerine Steenkamp, professor and program director for the doctorate of management in information technology (DMIT), has won the second annual Horltd Award for Excellence in Teaching at Lawrence Tech.

Steenkamp came to Lawrence Tech in 2002 with extensive experience in teaching and research, including sabbatical periods in industry, at the University of Michigan, the University of Paris-Sorbonne, and University of Detroit Mercy.

Steenkamp has nurtured the fledgling DMIT program for practitioner scholars to an established center for information technology management that has awarded 12 doctorates. There are 24 doctoral candidates in the research phase of the program at present.

Doctoral courses taught by Steenkamp include "IT Life Cycle Processes," "IT System Architecture" and "IT Research Methodology."

Steenkamp also has an active research agenda. She has served on 10 dissertation committees, acting as supervisor of eight of the doctoral candidates, and supervises 10 more. Her areas of research in IT value creation in a global economy have become very topical in the rapidly changing business and IT environments. She has encouraged faculty and students to share their research with their peers within Lawrence Tech, in journals, and at conferences.

A native of South Africa, she has traveled across the country and around the world to promote her research and the DMIT

program. DMIT students have participated with Steenkamp at a number of the conferences nationally and internationally. In October

she presented a keynote address at the E-Commerce and Developing Conference (E CDC 2008) in Iran.

▲EP



President Lewis N. Walker reads the inscription on the Horltd Award for Excellence in Teaching as he presents it to Professor Lerine Steenkamp. At right is Henry Horltd, BSIE'55, who established the award last year.

High-tech, high-touch interactive donor wall unveiled

A generous gift from instructor Al Turfe of the Mathematics and Computer Science Department enabled the Office of University Advancement to introduce a 42-inch, interactive, touch-screen Donor Honor Wall display that publicizes the generosity of donors to the University.

The touch-screen display was unveiled by Vice President of

University Advancement Stephen E. Brown at the annual Winterlude celebration for donors held in March at the Detroit Institute of Arts. "We wanted to honor our donors in the high-tech fashion worthy of a technological university," Brown said. "This interactive donor wall will do just that."

The interactive, touch-screen displays have been installed in the

Taubman Student Services Center and the University Technology and Learning Center. Additional screens are planned.

The LCD display screen offers viewers the opportunity to call up a photo, profile, or video clip of major donors at the touch of a finger. In addition, the breakthrough technology allows the University to play the Lawrence Tech campaign video in a continuous loop, run a live feed from CNN, and scroll a continuous roster of every donor to the most recent campaign.

"When we saw this technology, we were blown away," Brown said. "To be able to make a dynamic, personalized display for each major donor seemed so much more appropriate – and appreciative – than a traditional plaque or other static display."

"This system allows us to tell the Lawrence Tech story in a way that we never could before, and it is befitting a technological university that we use this high-tech, high-touch medium to tell our generous

donors' stories as well," said Dino Hernandez, assistant vice president for major gifts and campaign director.

The server-based, campus-wide communications system will be updated with new material, and it will allow University officials to broadcast a wide variety of messages and event information to specific screens in specific locations or to the entire system all at once.

"Another key feature of this system is its ability to broadcast security announcements to the entire campus, should that become necessary," said Bill Wachob, executive director of IT services. "In addition, its flexibility and large range of campus-wide communication options makes this a real service to the University community."

If you are a major donor and would like to share your story on screen, contact Dino Hernandez, assistant vice president for major gifts and campaign director, at hernandez@ltu.edu or 248.204.2306. ▲EP



Math instructor Al Turfe demonstrates the interactive features of the Donor Honor Wall during the Winterlude celebration at the Detroit Institute of Arts.

Cafeteria sandwiches named for Lawrence Tech luminaries

Lawrence Tech students are learning about the history of the University when they peruse the sandwich selections at Café Lawrence. Eleven items on the menu have been renamed for individuals who played significant roles in the University's past.

Chicken tenders, the most popular item at the Grill Station Diner, are now called the Ridler, in honor of Lawrence Tech's most successful athletic coach. The Buell Burger, named for Lawrence Tech's third president, is the second most popular.

Bruce Annett, executive director of marketing and public affairs, compiled the following biographical sketches of Lawrence Tech luminaries who are honored on the Café Lawrence menu:

Wayne H. Buell, BSChE'36, (1913-81) was a professor, trustee, and industry executive before serving as Lawrence Tech president 1964-77 and CEO until 1981. The Science Building and Housing-South were built and the College of Arts & Sciences established during his presidency. He stressed that Lawrence Tech was a private university serving public purposes.

Randall "Chappy" Chapman, BSAeE'38, (1916-45) was a student and faculty member who helped lead Lawrence Tech's national championship glider program in the 1930s. Working with other alumni in a secret World War II effort to develop huge cargo gliders expected to aid Allied victory in the Pacific, Chapman was killed during a flying exhibition. The Spirit of Lawrence Tech airplane, a later student project, was nicknamed in his memory.

John Z. DeLorean, BSIE'48, (1925-2005) advanced to executive vice president of General Motors, developed the first muscle car (the Pontiac GTO), and was one of the few people in recent years to launch his own car company. It produced the famed gull-wing-door DeLorean, star of the Back-to-the-Future movie trilogy.

Hans G. Erneman (1908-78), joined Lawrence Tech's engineering faculty in 1941, served as ME chair 1953-62, and dean of engineering 1962-73. Erneman advocated hands-on student projects that enhanced the educational process. Under his leadership, students built and competed with a hydroplane racing boat, the Hansmobile auto, and the Spirit of Lawrence Tech airplane.

Edwin O. "Doc" Graeffe (1900-72) joined the Lawrence Tech faculty in 1932 and served as first dean of management 1949-54 and 1965-70, and what is today known as provost 1956-64. A popular lecturer and counselor, he coached fencing and used his broad international experiences to expose students to global culture and business practices.

Russell E. Lawrence (1889-1934) and **E. George Lawrence** (1908-74) were Lawrence Tech's founders and its first two presidents. At the depth of the Great Depression, Russell, an engineering educator, predicted that technology would be the key to America's economic growth and advancement, and he pioneered some of the nation's first evening and co-op programs. Upon his death just two years later, his brother, George, assured that Russell's dreams for an innovative, tech-based university would come true, and during his 30 years as president led the acquisition of



President Emeritus Richard Marburger (L) and Associate Dean of Engineering Emeritus Richard Maslowski are joined by Taher Executive Chef Antonio Moore as they dine on sandwiches named in their honor at Café Lawrence. The Marburger Motown is grilled roast beef, peppers, onions, and Swiss cheese on a roll, and the "Mas" is Moore's take on the traditional Monte Cristo sandwich

the Southfield campus and construction of the Engineering and Architecture Buildings.

Richard E. Marburger, a former General Motors researcher, has served over 42 years in Lawrence Tech teaching and administrative roles, including president 1977-93. He was an early proponent of computers in aiding the educational process, and led the large-scale computerization of the campus. He initiated a return to graduate programs and led Lawrence Tech's change of status from an institute of technology to university. He continues to serve students as a volunteer academic advisor and tutor.

Richard S. "Mas" Maslowski served Lawrence Tech over 41 years as a professor, chair of the Department of Electrical Engineering, and associate dean of engineering. The popular former professor continues to serve students as a volunteer academic advisor and tutor.

Earl W. Pellerin (1905-94) joined Lawrence Tech in 1932 as the first faculty member in architecture and served until 1974 as the first

dean of architecture. He developed the inaugural master building plan for the Southfield campus and designed the Engineering, Science, and Architecture buildings, as well as Housing-South.

Donald G. Ridler (1911-63) joined Lawrence Tech in 1938 as coach of varsity football, baseball, basketball, swimming, golf, tennis, cross country, and track! Lawrence Tech basketball teams represented Michigan at the NAIB tournaments in 1942, '43, '47, '48, '49, '52, and '54. In 1951, the Blue Devils competed at the National Invitational Tournament (NIT). In 1981, Ridler was elected to the Michigan Sports Hall of Fame.

Lewis C. Veraldi, BSME'68 (1930-90) attended Lawrence Tech as an evening student and advanced to some of Ford Motor Co.'s top management positions. He is known as the father of the Ford Taurus, which was key to the company's survival in the 1980s, and pioneered multi-disciplinary product development techniques that vastly improved American manufacturing processes. ▲BJA

Alumni Association: 75 years young and going strong!

This year Lawrence Tech's Alumni Association celebrates 75 years as an independent volunteer organization dedicated to serving you and your alma mater.

Your world, your university, and your organization have witnessed tremendous change in that time span. We've endured the Great Depression, World War II, Korea, the Cold War, Vietnam, the Space Race, the energy crisis, and much more. Today many alumni are experiencing both the challenges and opportunities presented by a global economy, financial upheavals, and changes in manufacturing and our key automotive industries.

At Lawrence Tech, we have great memories of our nationally ranked Blue Devil basketball teams of the 1940s and '50s, and huge dances that attracted thousands to hear such greats as Tommy and Jimmy Dorsey and Ella Fitzgerald. In the mid-1980s, we welcomed alumni from the former Detroit Institute of Technology to our group, and we are delighted that many DIT alumni are active and among the strongest supporters of Lawrence Tech.

Today, Lawrence Tech is at the forefront of helping to meet the challenges of the changing workplace. Campus facilities are better than ever. A competitive hockey program is exposing new generations to the Blue Devil spirit.

Your Association is sponsoring many social gatherings in the Detroit area and across the nation. I recently went out to visit with fellow alumni in Washington, D.C., who are organizing a new chapter. Some popular annual local events include a Halloween Family Fun Day, Alumni Career Networking Receptions, Women's High Tea, and the always well-attended Santa Brunch. These events and many others are listed at www.ltu.edu/alumni where you can reserve your spot! Please visit the website often to see what's new.

In keeping with the ongoing mission of your Alumni Association, we continue to support student projects, and we are also working with alumni chapters and associations in other cities. These include the Architectural and Women of Lawrence Tech chapters and the newly formed LEGENDS entrepreneurial and business leaders group. These organizations are a wonderful way to network and share experiences.

We hope that you'll get involved, too. For more information, please contact Mary Randazzo, manager of alumni relations and alumni giving, at 248.204.2309 or mrandazzo@ltu.edu.



Michael Zulinski, BSIM'74
President, Lawrence Technological University Alumni Association



One of the fun jobs that Michael Zulinski has as president of the Alumni Association is presenting scholarships to students. Three recent winners are (L-R) Mitch Holland, Ellen Rotter, and William Schumaker.

Lawrence Tech canoe plays leading role in Pittsburgh celebration

A replica 1750s canoe paddled by Lawrence Tech alumni and faculty led a flotilla of nearly 100 boats that converged on the confluence of the Allegheny, Monongahela and Ohio rivers to kick off a two-month celebration of Pittsburgh's 250th anniversary in October.

As students in 2005, the five alumni were on the Lawrence Tech team that paddled and portaged for seven weeks and 500 miles from Detroit to Pittsburgh. The expedition commemorated the beginning of the French and Indian War in 1755 by traveling a standard trade and military route of the time. The student team designed and constructed a 24-foot replica of a birch bark "canot du nord" that the French used on the Great Lakes.

When Pittsburgh's 250th anniversary celebration planners needed a boat to represent the 1750s, they thought of Lawrence Tech.

Mike Means, BSME'07, Chris Naida, BSCvE'07, Denise Janus, BSME'06, Chris Trunick, BSME'07, and Will Schumaker, BSPH'08, made it back to Pittsburgh for a

reunion. They were joined by faculty advisors Don Carpenter, Andy Gerhart, and Phil Vogt.

The Lawrence Tech canoe was launched into the Allegheny three miles upstream from downtown Pittsburgh. Dressed in traditional clothing of fur traders and French militia of the 1750s, the Lawrence Tech paddlers led the flotilla featuring dragon boats, kayaks, canoes, rowboats, personal motorboats, Coast Guard boats, River Rescue boats, and even a few majestic paddle-wheelers.

Afterwards, Lawrence Tech had an information/display table set up near the docked canoe, and the alumni discussed their 2005 expedition and participated in historical festivities. In the evening they were guests at the VIP reception at the Carnegie Science Center for the largest fireworks display ever put on in North America.

For the alumni, it was a fitting and magnificent celebration of a college experience they will never forget. ▲EP



Lawrence Tech alumni were invited back to Pittsburgh to reprise their roles as French and Indian voyageurs from the 1750s when that city celebrated its 250th anniversary in October. Looking like they just paddled out of the pages of a history book are (L-R) Mike Means, BSME'07, Associate Professor Andy Gerhart, Will Schumaker, BSPH'08, Denise Janus, BSME'06, Chris Naida, BSCvE'07, Chris Trunick, BSME'07, and Associate Professor Don Carpenter.

Lawrence Tech alums design mobile exhibit for Lincoln bicentennial

When Barack Obama is inaugurated as the 44th president of the United States in Washington, D.C., in January, the nation's capital will also be hosting a remarkable museum on wheels, created and designed by two former Lawrence Tech students, commemorating the life of Abraham Lincoln.

Commissioned by the Abraham Lincoln Presidential Library & Museum in Springfield, Ill., the unique mobile exhibit is called "Abraham Lincoln: Self-Made in America." It uses a creative blend of interactive elements, graphics, facsimile documents and artifacts showcased inside a 53-foot-long, double expandable trailer to mark the bicentennial of Lincoln's birth on Feb. 12, 1809.

"Abraham Lincoln: Self-Made in America" examines the 16th president's life from his humble beginnings in rural Kentucky and his law career in Illinois to his ascension to the nation's highest office and his assassination on April 14, 1865, in the waning days of the Civil War.

Highlights include a visual recreation of Lincoln's emotional Farewell Address from a train car in Springfield as he left for the White House in 1861 and an award-winning video presentation titled "The Civil War in Four Minutes." The Lincoln-Douglas debates, the Emancipation Proclamation and the Gettysburg Address are also explored. Civil War casualties – 702,000 for the North and 621,000 for the South – are starkly dramatized on a flat-screen television on a wall covered with an historic photo of slain soldiers.

The exhibit – free to the public – has been crisscrossing the United States since its launch in April. It was featured at both the Democratic and Republican national conventions this summer and made its first Michigan appearance

in September in Sterling Heights. The bicentennial tour will continue through August 2010.

"Abraham Lincoln: Self-Made in America" was designed and manufactured by Mobility Resource Associates (MRA), a St. Clair Shores-based marketing resource company that specializes in custom mobile tour vehicle sales and leasing, tour equipment, and logistics management.

MRA chose Carolyn Stevens, BSAr'91, and fellow alumnus Brian Parker, both with Ford & Earl Associates Inc., a Troy-based architecture firm, to design and create the exhibit.

"MRA approached us because of our design capabilities and our ability to understand how to develop a program based on what a client is looking for," recalled Parker, who studied architecture at Lawrence Tech from 1981 through 1985 and is principal of business development at Ford & Earl after a



Brian Parker

seven-year stint as MRA's creative director.

It was a perfect talent match, with Stevens managing the conceptual end of the project and Parker in charge of up-front design work. The pair put together a concept design package that wowed officials at the Lincoln museum, who then gave MRA the green light to start work on the exhibit in early 2008. Some two-and-a-half months later, "Abraham Lincoln: Self-Made in America" was ready for launch.

"We worked very closely with the Lincoln historians in Springfield," said Stevens. "They had an unbelievable quantity of images and artifacts to work with, and my charge was to pick those that best told the story of Lincoln's life and times."

For the two designers, the project was both educational and richly rewarding.

"I'm a history buff and the Civil War is one of my favorite topics," said Stevens. "I thought I knew a lot about Lincoln, but I learned so much more about him while doing this project. I had never realized how much adversity he faced in his life. And I learned a lot of little quirky things, too, like the fact that he was an avid reader and had a really wicked sense of humor."

"It's nice to see the end product, but what's really rewarding to me is to see how people respond to this exhibit," added Parker. "For my part, I learned a lot about Lincoln as a living, breathing person and not just a figure out of the history books. That's what's so fascinating about this project – the chance to tell a great story."

Stevens and Parker said they appreciated the fact that both MRA and the Lincoln museum gave them full rein to develop and express their creative vision for this project

Harry Kurtz, president of MRA, is equally proud of the exhibit, calling it "a must-see for Lincoln enthusiasts, students of all ages, and the general public."

Even though he is not an alumnus, Kurtz has a strong connection with Lawrence Tech. He donated a truck to take supplies to Washington for the Solar Decathlon competition on the National Mall in 2007. (See story on page 17.) ▲CM

Carolyn Stevens, BSAr'91, and alumnus Brian Parker designed a unique mobile exhibit about the life of Abraham Lincoln that is currently touring the country.



Jimenez earns Lawrence Tech's architecture alumni award

Deirdre Jimenez, BSAr'83, BSIA'85, is the 2008 recipient of the Distinguished Architecture Alumni Award at Lawrence Technological University. She is the managing principal for the Detroit and Columbus, Ohio, offices of Jacobs Engineering Group.

The alumni award recognizes academic, professional, and personal achievements, including local, national or international status; volunteer and community service; and support of the College of Architecture and Design. She is a member the advisory committee of the College of Architecture and Design.

Jimenez has been responsible for building a consulting practice at Jacobs Engineering Group (formerly Carter & Burgess) consisting of 70 architects and engineers who serve federal, state, corporate, aviation, education, and retail clients in the Midwest. The firm provides scientific and specialty consulting in

addition to covering all aspects of engineering and construction, and operations and maintenance.

An expert in achieving continuous improvement in service

delivery systems, Jimenez has developed training and facilitated studies in interactive planning, value engineering, TQM, re-engineering and value driver analysis

initiatives. As a business manager, she has taken on the challenge of organizational change, leading teams through downsizing, outsourcing, and resourcing as well as acquisitions and mergers. She is a member of the American Institute of Architecture and the American Society of Interior Designers.

Channeling this experience to address a need for predictable results, Jimenez led a small team to create a web-based project execution program that embodies her philosophy of leadership through shared knowledge.

She also has extensive experience in facility management. As a corporate architect, she was responsible for a real estate portfolio of more than 500 buildings, totaling 250 million square feet and a capital budget of \$40 million.

She and her husband, Tony, have nine-year-old twin daughters, Halaina and Jessica. ▲EP



Deirdre Jimenez, managing principal of the Detroit and Columbus offices of Jacobs Engineering, is the 2008 recipient of the Distinguished Architecture Alumni Award. The award was presented Sept. 11 by Dean Glen LeRoy (L) and Keith Logsdon, BSAr'83, chair of the Architecture Alumni Cabinet. Jimenez gave a presentation on her work as part of a lecture series of the College of Architecture and Design.

Top Navy honor coincides with graduation

Todd Brooks, BSET'07, received his bachelor's degree in engineering technology from Lawrence Tech just a few weeks after being named the 2007 Navy Reserve Sailor of the Year.

Brooks is an engineering supervisor at Ford Motor Company's Vehicle & Body/Chassis Test Lab in Dearborn. In June, he returned to active duty and was deployed to Iraq with a Joint Expeditionary Intelligence unit.

Brooks was selected from 55,000 Navy reservists for the organization's top honor. He and four other finalists spent a week in Washington, attended meetings at the Pentagon and visited the White House prior to the awards ceremony in May 2007. In October, Brooks was notified of his selection as a commissioned officer in the Navy Reserve Intelligence program.

He entered the Navy right after graduating from high school. He was on active duty from 1985 to 1991 and flew on submarine surveillance missions in the North Atlantic. He joined the Navy Reserves just weeks after the terrorist attacks on Sept. 11, 2001.

"When 9/11 hit, I had the desire to do something for my country, and my specialty was in critical demand," Brooks said.

As a reservist, he has served as an in-flight aviation electronics technician on counter-narcotics operations in South America and Central America. He also was a facilitator in the Navy's leadership development program, teaching throughout the United States.

Brooks took classes at Lawrence Tech for many years as he juggled a full-time job, family responsibilities and his Navy Reserve commitments.

"Todd is an example of what students at Lawrence Tech can accomplish by using time management skills," said Jerry Cuper, an

advisor and lecturer in Lawrence Tech's Engineering Technology Department. "He's a great role model for younger students at Lawrence Tech." ▲EP



2007 Navy Reserve Sailor of the Year Todd Brooks, BSET'07, spoke at the Pentagon just a couple of weeks before he graduated from Lawrence Tech in May 2007.

Jubilee Society inducts Class of 1958

Lawrence Tech's Jubilee Society honors alumni of Lawrence Tech and the Detroit Institute of Technology who graduated 50 or more years ago. The class of 1958 was inducted into the group at the annual Jubilee Society Brunch held in April during Open House and Reunion weekend. Enjoying their 50th reunion with some other recent inductees are (L-R) Lawrence Hogan, BSME'58; John Mieras, BSME'58; Frank Chikos, BSME'55; Laurence Biehl, BSIM'58; Marvin Kalina, BSME'58; Chris Soaseff, BSME'56; Ernest Skuta, BSME'57; Clifford Miotke, AMT'57; Sam Radulovich, BSEE'55; and Leon Braisted, BSME'58. ▲EP



Oldest returning alumni



William Hund, BSChE'37 (L) and Edward Lesniak, BSME'39 (DIT), returned to campus in April for the Jubilee Society Brunch.



Graduates from the early 1950s who attended the Jubilee Society Brunch in April included (L-R) Howard Weber, BSME'51; Tony Suchocki, BSME'51; Robbie Williams, BSCvE'50; George Derisley, BSME'50; Frank Gessler, BSIE'53; Lyle Wolcott, BSEE'51; Jack King, BSME'54, who died in June; Walter McCoskey, BSME'51; James Clark, BSME'51; Richard Darbyshire, BSME'54; Vic Kochajda, BSEE'52; John Meyer, BSME'51; and J.R. Chamness, BSME'51 (second from right).

Reminiscing about the 1940s

Alumni from the 1940s had a lot of ground to cover when they returned to campus over reunion weekend for the annual Jubilee Society Brunch. Lawrence Tech President Lewis N. Walker provided an update of events on campus, Master of Ceremonies Lawrence Hogan shared memories of the Class of 1958, and Carolyn Snyder spoke about being a current Lawrence Tech student. Mostly the Jubilee Society members had

a wonderful time catching up with each other. Alumni from the 1940s who attended the Jubilee Society Brunch in April included (L-R) Sam Ross, BSME'44; Bob Lemon, BSME'49; Roy Heady, BSAeE'49; Len Hendricks, BSCvE'49; Hurst Wulf, BSME'41; Chester Kus, BSME'48; Alexander Ross, BME'44; Jim Smith BARe'46; H. George Johannessen, BSChE'41; Jim Landis, BSChE'48; and Louis Schmidt, BSME'49. ▲EP



Hossack Plaza adds new dimension to Café Lawrence



Students can now enjoy good weather at the Alexander and Patricia Hossack Outdoor Dining Plaza and Terrace Garden, located outside the Buell Management Building. The construction project completed over the summer was funded by a charitable remainder uni-trust gift of \$340,000 from the estate of Alexander Hossack, BSME'48, and his wife Patricia. Hossack was president of United Technologies and was involved in developing fuel delivery systems for the Apollo lunar orbiter. He was awarded the Lawrence Tech Alumni Achievement Award in 1975.

Cieply stays active by earning master's degree at 74

Nine years after he officially retired, Oleh Cieply, MCvE'08, hasn't stopped working or learning.

Cieply, 74, is a registered professional engineer who works part-time for Environmental Engineers of Southfield, where he reviews plans for new developments in Livingston County. In July he successfully defended his graduate project dissertation on storm water retention to complete a master's degree in civil engineering at Lawrence Tech.

He taught surveying and hydrology for many years as an adjunct professor at Lawrence Tech and Wayne State University, but decided he needed a master's degree after his retirement in 2000 from Wade Trim in Taylor.

"It gives me great satisfaction to complete this personal goal after eight years," Cieply said. "I'm glad there isn't any age discrimination at Lawrence Tech."

Cieply is believed to be the oldest master's degree recipient in the history of the College of Engineering.

"Mr. Cieply's remarkable achievement shows that it's never too late to gain new knowledge," said Assistant Professor Elin Jensen, the director of civil engineering graduate programs. "It

was inspiring to see how much enthusiasm and energy he brought to his studies."

It's another milestone on a remarkable journey that began in Ukraine where Cieply was born shortly before the start of World War II. He lived in Poland and started high school in Germany before coming to the United States



in 1949 to join relatives in Toledo. He was salutatorian of his high school class and graduated from the University of Toledo with a bachelor's degree in civil engineering in 1958.

Cieply was an ROTC cadet and served in the reserves for 28 years, ending up as a lieutenant colonel in the Army Corps of Engineers. He graduated from the U.S. Army Command and General Staff College in Ft. Leavenworth, Kan., and for six years taught U.S. Army Command and General Staff College courses at various posts throughout the country. ▲EP

Oleh Cieply and his wife Alberta are congratulated by Associate Professor Edmund Yuen and Assistant Professor Elin Jensen after Cieply successfully defended his graduate project dissertation on July 29 to complete his master's degree in civil engineering.

Grzankowski overcomes adversity to compete in marathon

Tim Grzankowski, BSCmE'07, has always wanted to compete in athletics, and he finally got his chance when he entered the 2007 Detroit Marathon in the handcyclist division.

Grzankowski was born with arthrogryposis, a rare disease that stiffens joints and muscles and drastically limits mobility. He underwent surgery when he was two years old and now walks with the help of knee braces.

His difficulty with walking didn't hold him back in the classroom. He earned a bachelor's degree in computer engineering from Lawrence Tech in 2007, graduating summa cum laude.

Grzankowski used to shoot basketballs and hockey pucks while growing up, but he was never able to compete in athletic events. That changed last summer when he spent an entire monthly paycheck to buy a \$3,200 Quickie Shark handcycle. He had become a fan of Lance Armstrong while following the Tour de France bicycle race, and was determined to enter a marathon as a handcyclist.

To prepare for the Detroit Marathon, Grzankowski hand-cranked his bike about 10 miles every day. On race day he picked up some last-minute tips from other handcyclists.

He finished the 26.2-mile course in 2:33:33, averaging better than a mile every six minutes and finishing 13th out of 17 in his division. He beat his personal goal of 2:36.

The race lived up to its advance billing for Grzankowski. "It was very exciting," he said. "It was very encouraging to have all those people along the way cheering you on."

Convincing prospective employers that he could work effectively in spite of his handicap was another challenge that Grzankowski has conquered, according to Dean of Students Kevin Finn, who was run-

ning the Office of Career Services when he met him.

"Tim is an extremely determined

person, and I watched him persist when employers were nervous that he could not make it as an engineer," said Finn, who runs in the Detroit Marathon. "He fought prejudice with the greatest tool of all – a very warm heart that is extremely contagious."

Shortly after commencement in 2007, Grzankowski landed a job with Vector CANtech in Novi, where he works in the diagnostics group on automotive electronic systems. He had interned with the company during his final semester at Lawrence Tech.



Update: Grzankowski knocked 17 minutes off his time when he competed in the 2008 Detroit Marathon in October. ▲EP

Tim Grzankowski, BSCmE'07, says he got a big boost from the crowd support at his first Detroit Marathon last year. He competed again this year.

Fraternity celebrates 75th anniversary



Members of the Alpha Sigma Phi fraternity at Lawrence Tech got together at Northville Hills Golf Club in September for their 33rd annual golf outing. The event also marked the 75th anniversary of the chapter's founding in 1933, when the University was in just its second year of operation in Highland Park. The Phi Kappa Upsilon fraternity at Lawrence Tech also celebrated its 75th anniversary, and a photo from that event will appear in the Spring 2009 issue of the magazine.

Taubman signs books on campus

Alumnus A. Alfred Taubman came to campus in October 2007 to take questions from students and talk about his new book, "Threshold Resistance: The Extraordinary Career of a Luxury Retailing Pioneer." After a wide-ranging discussion, he signed copies of the book outside the Lawrence Tech bookstore.



Bawcum wins Marcum Service Award

Angela Bawcum, a systems support specialist for applications services in the IT Service Delivery Department, has won the Marcum Customer Service Award for the fall term. It comes with a \$1,000 stipend.

The Customer Service Award is presented biannually to a Lawrence Tech employee of any job classification (faculty, staff or administration) who provides customers (co-workers, students, etc.) with quality service and assistance. It was established to recognize Lawrence Tech employees who unflinchingly provide outstanding assistance and cooperation.

Frank Marcum, BSME'72 DIT, established the award in memory of his wife Mary Ann Marcum, MBA'92, who was director of the Continuing Education program at Lawrence Tech when she was killed in a tragic auto accident. A strong proponent of recognizing personal achievement, Mrs. Marcum established a variety of reward and recognition programs, including the service award lapel pins staff and faculty wear to note their tenure at Lawrence Tech –

a rarity at private universities.

The selection panel of judges looks for an employee who is consistently responsive to questions, returns phone calls, makes special efforts to fill requests, and is helpful and courteous.

Bawcum earned her bachelor's degree in information technology at Lawrence Tech in 2005. She started her career at Lawrence Tech while still a student and previously worked in the registrar's office and the Veraldi Instructional Technology Resource Center. She played a role in implementing the Banner and Blackboard systems.

"It is Angela who first responds to many of the IT services issues that arise during the off hours day and night," said Bill Wachob, executive director of IT Service Delivery. "Through both her technical skill and her devotion to making Lawrence Tech a better place to come for education, she keeps many things going at once."

To nominate a Lawrence Tech employee, contact Dino Hernandez at 248.204.2306 or hernandez@ltu.edu. ▲EP



Angela Bawcum of IT Service Delivery receives the Marcum Service Award from Frank Marcum (L) and President Lewis N. Walker.

Comerica Park outing



Alumni were joined by faculty and staff for the annual alumni baseball outing in July. After enjoying a catered lunch of ballpark cuisine prior to the game, Kenneth Van Tine, BSAr'85, BA'86, and Gina Van Tine, BSAr'89, BA'94, had a great view for watching the Detroit Tigers battle the Chicago White Sox.

Indian leader honored for progressive policies

Sharad Pawar, India's minister of agriculture and minister of consumer affairs, food and public distribution, received an honorary doctorate of humanities at the 2008 Commencement ceremonies in May.

Hailing from a farming family, Pawar rose through state government ranks and in 1978, at the age of 38, became chief minister of Maharashtra, India's most developed and urbanized state, second most populous, and third largest in geographic size. Its capital is Mumbai, India's largest city and business center.

Pawar moved to India's national stage in 1991 when he was appointed defense minister. In 1995, he was elected to India's parliament and became leader of the Congress party. In 2001, he became vice chairman of the National Committee on Disaster Management, and in 2004 was appointed to his current posts in India's cabinet.

His policies as agriculture and food minister have helped revive his nation's agricultural sector. Harvests of wheat, rice, oilseeds,

cotton, and sugarcane have markedly improved. The India-U.S. Knowledge Initiative launched during his tenure has increased pioneering research in technology and agriculture between the two nations.

Pawar has stood for a society free from the caste and communal biases that tend to influence politics in India. He was India's first chief minister to formulate a progressive gender policy.

He also serves as president of the Board for Control of Cricket in India (BCCI), a very high-profile position.

Pawar is a strong advocate of education. One of India's leading K-12 international schools is named in his honor. In 1972, he founded Vidya Pratishthan, a primary, secondary, and collegiate institution serving 16,000 students and offering degrees through the graduate level.

Pawar is also president of Pune's Vasantdada Sugar Institute for post-graduate and certificate-level academic study, research, technology development, and consulting. Improving educational

opportunities is core to his belief that his nation can continue to develop as a global hub for software production, telecommunications, biotechnology, and informa-

tion technology.

Active in the United Nations and World Health Organization, Pawar won praise for his leadership of the UN Disaster Management Team that provided relief for earthquake victims of Maharashtra's Latur and Osmanabad districts. ▲EP

Saroki named to board of trustees and gives commencement address

Victor Saroki, BSAr'79, BA'r80, an award-winning architect and a member of the University's Board of Trustees, received an honorary doctorate of architecture and gave the principal address at Commencement ceremonies held at Cobo Arena in Detroit in May.

Saroki's work has been recognized by over 50 design awards and in over 40 articles on design, including eight in national publications. His Birmingham-based firm, Victor Saroki & Associates Architects PC, was named by AIA Michigan as the 2007 Firm of the Year. Its commissions have included residences, theaters, restaurants, retail, galleries, and hotels. One recent commission, the Royal

Park Hotel in Rochester, received the 2006 People's Choice "M" Award from the Masonry Institute of Michigan.

Saroki was awarded the AIA Detroit Young Architect of the Year Award in 1994, and in 1998 received the University's Distinguished Architecture Alumni Award.

He is a former president of the Detroit Chapter of the American Institute of Architects (AIA) where he remains active, and also serves on the board of AIA Michigan. He was named to the prestigious College of Fellows by the national AIA in 2000.

Saroki was named to the University's board of trustees in January.

President Lewis N. Walker said it was very important to have an architect on the University's board since Lawrence Tech's architecture programs rank among the 10 largest in the nation, and some 45 percent of Michigan's licensed architects are Lawrence Tech graduates.

"We clearly are very committed to that profession, and are delighted to have Mr. Saroki join our trustees and provide important leadership, guidance, and counsel," Walker said.

"I am honored to be selected as a trustee of my university, a place that has meant so much to me personally and professionally, and to help influence the programs and opportunities that will serve new generations of students," Saroki said. ▲EP



Provost Maria Vaz and President Lewis N. Walker congratulate this year's recipients of honorary doctorates from Lawrence Tech, Sharad Pawar, India's minister of agriculture and minister of consumer affairs, food and public distribution, and award-winning architect Victor Saroki.

Pratt and Steudle win 2008 alumni achievement awards

Keith Pratt, BSIM'82, and Kirk Steudle, BSCE'87, are this year's recipients of the alumni achievement awards presented annually at Commencement ceremonies.

Components created by Pratt's companies have been used on Mars, in the Hubble Space Telescope, and in artificial hearts, while Steudle is playing a key role in mapping out Michigan's future as state transportation director.

Pratt is chairman and CEO of Shared Vision LLC, a 55-employee company that produces precision machined parts and sub-assemblies for a variety of clients in the aerospace, defense, medical, automotive, and heavy equipment industries. The ISO 9001-2000 certified company is based in Warren

and includes Panda Precision Inc. and Schwartz Industries.

After growing up on Long Island in New York, Pratt moved to Detroit to work for General Motors, where he held positions in product development, emissions, testing, and advanced vehicle engineering at the GM Tech Center and Proving Grounds. He has also worked for IBM and competed in road racing and Funny Car drag racing.

In 1993, he founded Panda Precision with the goal of creating unique, complex machined parts with a consistently high level of quality. Pratt acquired Schwartz Industries in 2001 to further expand his capabilities in this field.

Pratt is also actively working to improve higher education. He

serves on the board of visitors of the Pratt School of Engineering at Duke University. He recently served on the search committee that selected Devdas Shetty to lead the College of Engineering at Lawrence Tech. He has been active in raising funds for his alma mater.

Born and raised in Adrian, Steudle is a licensed professional engineer who began his career with the Michigan Department of Transportation (MDOT) in 1987 and was appointed state transportation director in March 2006. He administers a highway program with 9,716 miles of roads, 4,400 bridges, 2,800 employees, and multi-modal transportation programs that include transit, rail, air, marine/port, and non-motorized

transportation.

Steudle is a national expert in vehicle infrastructure integration (VII), the technology that enables vehicles to communicate with the road network for greater safety and mobility. He is a director of the Intelligent Transportation Society of America (ITSA). He also serves on the Strategic Highway Research Program (SHRP) II oversight committee and chairs the group's implementation committee that reports to Congress. He served on the Essexville City Council from 1995-99.

Steudle has been actively involved with Lawrence Tech and is a member of the Department of Civil Engineering Advisory Board. ▲EP



Keith Pratt, BSIM'82, receives congratulations from Provost Maria Vaz for receiving an alumni achievement award.



Kirk Steudle, BSCE'87, receives his alumni achievement award from President Lewis N. Walker, while Provost Maria Vaz and Trustee Howard Padgham look on.

They hit the ground running

These newly minted Lawrence Tech grads had their gaze firmly fixed on a bright future as they listened to the speakers during Commencement at Cobo Arena in May. A survey showed that 84 percent of the more than 900 graduates in 2008 already had jobs lined up upon graduation, and historically more than 90 percent of Lawrence Tech grads have jobs within six months of graduation.



Alumni Notes

Alumni Notes includes news gathered from alumni, their families and friends, corporate news releases, and Michigan newspapers. Due to space limitations in this issue, the editors were not able to print all the submissions we have received. We will publish those submissions and others in the next issue to be published in April 2009. Use the form in this section to share news about you!

1933-59

George P. Pollefeyt, BME'38, and his wife, Iva, have been married over 70 years. George retired in 1973 after 20 years as a mechanical engineer for Chrysler's defense engineering division. During college, George played the trumpet for the Lawrence Techonians. The Pollefeys have three children and reside in Rochester Hills.

Robert R. Mandy, BSEE'45, developed a patented invention for windshield-washer jets with co-inventor, Joe Muccioli, BEE'46, at Ford Motor Co.

T. Robert Conroy, BSME'49, was featured in the *Livingston County Press* as a longtime collector of signed newspaper clippings and other memorabilia. Noted for his excellent memory, Bob credits this ability to his 40-year career reviewing commercial construction plans for MichCon, where his knowledge of gas line locations at hundreds of sites was critical. He worked on such major projects as the Detroit Renaissance Center, Joe Louis Arena, and Cobo Hall. Bob and his wife, Shirley, live in Brighton and have seven children.

In 2006, **Keith P. Edwards**, BSIM'56, ran on the Libertarian slate for election to the Macomb County Commission, District 24. Keith resides in St. Clair Shores.

1960-79

Nicola M. Antakli, BSHU'60, is chairman and CEO of Intraco Corp. in Troy, a Middle East distributor of glass for Libby Owens Ford, now England-based Pilkington Group Ltd. Born in Syria, Nicola came to the United States in 1955. He worked for Federal-Mogul Corp. 1963-71 as manager of sales

from Beirut, Lebanon, to other Middle East countries, and then founded Intraco in Beirut. Civil war in Lebanon forced his return to the United States where Intraco's sales reached nearly \$100 million in 2006 due to Middle East construction booms. Nicola credits his success to his U.S. education, saying, "I'm a very lucky man. I have seven grandchildren and I hope they will be working for the company one day as well."

James W. Koepke, BSEE'68, and his wife, Doris, celebrated 51 years of marriage on Apr. 21, 2007. Jim was manager of contracts and administration for Unisys until he retired in 1994. The Koepkes live in Livonia.

Roy Radakovich, BSME'68, BSIM'72, is CEO and a director of Pump Engineering Inc. in Frenchtown Twp. He served in the Army as a project engineering specialist, and after a stint at Uniroyal advanced to senior positions at Ford Motor Co. and World Vehicle Technologies, and completed the executive management program at the University of Michigan. He is a past chair of the SAE Detroit Section and served on numerous SAE committees.

Roy Rocco Romano, BSAr'70, received the Robert Hastings Award for excellence in architecture from the Michigan AIA. Roy is principal with TMP Assoc. in Bloomfield Hills and lives in Clawson.

Paul H. Goldsmith, BSAr'72, AIA, NCARB, LEED AP, authored the article "The Growing Appetite for Green" in the *Engineering Society of Detroit's Technology Century*. Paul's article explains the benefits of sustainable design and the growing importance of Leadership in Energy and Environmental Design (LEED) accreditation in construction. He is an associate and assistant director of operations for Harley Ellis Devereaux and is involved in the firm's "green" building design initiatives. Paul teaches at Lawrence Tech's College of Architecture and Design and is board member and chair of the U.S. Green Building Council's Detroit Regional Chapter.

Leonard Gyselinc, BSAr'72, a developer and architect, is a Farmington planning commissioner. He works for Dembs-Roth Gyselinc Construction Co. in Farmington Hills and also holds a BSCE from Michigan State University.



Team members with the full-scale mock up of the GDT Speedster are, left to right: Dave Maran, Chuck Carlson, Gene Dickirson, Larry Ronzi, Craig Sandvig, and James Wilber.

Gene Dickirson, BSME'73, along with fellow alumni, **David Maran**, BSBA'87 and **Larry Ronzi**, AMT'69, former instructor, **Musa Azzouz**, and other team members have designed and built a new, one-of-a-kind, sports car, the GDT Speedster in Plymouth. The team of professional automotive engineers and stylists includes nine individuals, active and retired, from Ford Motor Co. and Visteon Corp. A book, "GDT Speedster—From Dream to Reality," written by Gene was published in January 2008, and is available from book-sellers worldwide. For more information: www.gdtspeedster.com.

William J. Sulak, BSME'72, retired from the Army in Feb. 2006 after 29 years of civilian service as a senior staff engineer. He worked at Fort Belvoir, VA, and now lives in Russellville, AR.

E. Timothy Pawl, BSME'73, a director of the Alumni Association board, has also long been involved with the Cadillac-LaSalle Club (CLC), an international organization founded in 1958 in Detroit to preserve the luxury brand's legacy. In 1996 the Club founded the Dexter-based CLC Museum & Research Center to make it easy for people to donate historic Cadillac items, from vehicles to historic advertisements and shop manuals. Tim is past president of CLC and director of the museum. For more information, visit www.cadillaclacalleclub.com.

James M. Shamaly, BSME'73, ran on the Republican ticket for Macomb County Board of Commissioners, District 17 in 2006. Jim has worked as an automotive engineer for numerous companies, including Ford Motor Co., Chrysler LLC., General Motors, and Visteon Corp. He lives in Mt. Clemens.

John P. Lee, BSCE'74, appeared in West Bloomfield's *Spinal Column* Newsweekly's "One Minute Interview" in March 2007 discussing his community involvement in Wixom. "I just want to be a part of everything that happens in my community. I started on the council, I've been on the Zoning Board of Appeals, and served on various committees. I'm currently serving on the Planning Commission and Tax Abatement Committee." He worked at the Ford Wixom assembly plant and is program manager for Ford Land. Jim, his wife, and three children live in Wixom.

Eli ezer I. Dorfman, BSME'75, president of Pirtek Metro Detroit, was highlighted in an "Executive Profile" in the *Oakland Business Review* in July 2006. After 30 years at Thorn Apple Valley Inc., when, explains Eli, "I flunked retirement," he began an Australian-based Pirtek franchise, with locations in Madison Heights and Westland. The firm provides and installs replacement hoses for hydraulic, industrial, and specialty applications. Eli, his wife, Jenny, and four children live in Bloomfield Hills.

Deborah L. Morrissett, BSEE'75, was recognized as one of 12 influential female executives at Chrysler LLC by *Automotive News*. The award recognizes women who are leaders in the automotive field and have significant influence at their companies. Deborah is vice president for regulatory affairs at Chrysler.

Alan H. Cobb, BSAr'76, AIA, was elevated to the Michigan AIA College of Fellows and is director of design and vice president and corporate director for Albert Kahn Associates of Detroit.



Paul G. Johnson, BSAr'76, AIA, NCARB, CCS, was elevated to the Michigan AIA College of Fellows. He works

for the Building Technology Studio of SmithGroup, Inc. in Detroit. Paul works on building evaluations and exterior enclosure systems, and his projects include the Detroit Institute of Arts.

A L U M N I N O T E S

George L. Houhanisin, BSAr'77, BA'78, AIA, NCARB, joined DSA Architects, a member of SHW Group, as principal-in-charge and Michigan studio leader. George is a registered architect in six states.

Constantine George Pappas, BSAr'77, BA'78, FAIA, received the 2006 Distinguished Architecture Alumni Award from the Architecture Chapter of Lawrence Tech's Alumni Association. He is an adjunct instructor in the College of Architecture and Design and also teaches at the University of Michigan and the University of Detroit Mercy. His firm, Constantine George Pappas AIA Architecture/Planning of Troy, has won 22 design awards in the past ten years.

Michael B. Radonovich, BSAr'77, AIA, joined DSA Architects, a member of SHW Group in Berkley, as senior project architect. He worked previously for Barton Malow Design.

Ronald W. Smith, BSBA'77, MBA'94, is director of marketing for Blue Bird Corp.

William H. Bishop, III, BSAr'78, won election from District 2 on the Jacksonville, FL, City Council. Bill is an architect and principal of Akel, Logan, Shafer, PA Architects/Planners in Jacksonville, and has been active in civic affairs. He earned a MAr. and MBA from the University of Detroit Mercy. Bill, his wife, Melody, and two children live in Jacksonville.

James R. Godbout, BSBA'78, account manager for Rockwell Automation of Ann Arbor, was featured in the July 19, 2007, issue of *Hometown Life* discussing his work on the Westland City Council. Jim is involved in numerous civil organizations and has received leadership awards from the Michigan Municipal League Elected Officials Academy. He lives in Westland with his wife and son.



Arthur F. Smith, BSAr'78, BA'81, FAIA, received Lawrence Tech's College of Architecture and Design 2005

Distinguished Architecture Alumni Award. Art is principal of architecture at Harley Ellis Devereaux (HEDEV) in Southfield, and recipient of the

2004 AIA Detroit Gold Medal. Art and HEDEV won the AIA Michigan Robert F. Hastings Award for outstanding contributions to the profession for design of Lawrence Tech's A. Alfred Taubman Student Services Center. He is an adjunct instructor and lives in Rochester Hills with his family.



Michael J. Sweeney, BSME'78, PE, received the 2005 Citizen Corps Council of the Year Award from

the Michigan State Police Emergency Management Division on behalf of the Farmington Hills Citizen Corps Council for Emergency Preparedness. Mike writes a regular column for the *Farmington Observer* newspaper to promote emergency preparedness. He lives with his family in Farmington Hills.

Benedetto Tiseo, BSAr'78, AIA, NCARB, president of Tiseo Architects, Inc., Livonia, received the 2007 Outstanding Site Design Award from the Michigan Recreation and Park Association for his firm's work on the Livonia Veterans Memorial Plaza. The project was featured in the May 2007 issue of *CAM Magazine*. Ben is a member of Lawrence Tech's adjunct faculty and he and his family live in Livonia.

David A. Clark, BSAr'79, BA'80, AIA, LEED AP, is director of architectural design at Fishbeck, Thompson, Carr & Huber, Inc., in Grand Rapids. David's projects include the Aquinas College Circle Theatre, Michigan State University Chemistry Building addition, and the Grand Rapids Public Library.



James L. Luckey, BSAr'79, BA'82, is principal at SmithGroup's Health Studio in Chicago, IL. Jim has been with

SmithGroup for over 25 years in the design of hospitals, laboratories, and research centers. He resides in downtown Chicago.



Victor A. Saroki, BSAr'79, BA'80, president of Victor Saroki & Associates Architects PC, in Birmingham,

was awarded AIA Michigan's 2007 "Architecture Firm Award." Victor's firm has designed more than 60 buildings in Birmingham and was featured in the December 2006 *Oakland Business Review* for design of the District Lofts. *DBusiness* also interviewed Victor in March 2007 on his involvement as board member in the Chaldean Cultural Center set to open in 2008 at Shenandoah Country Club in West Bloomfield Twp.

1980-89

Robert G. Jamrog, BSCh'80, is president of Ferndale-based Gage Products Company, a global supplier of test fuels, paint solvents, and recycling technology for the auto industry. Robert earned a master's degree in business management from Central Michigan University. His is married with two children and lives in Novi.

Daniel L. Kozakiewicz, BSCE'80, president and chairman of the board of Three Rivers Corporation Associated in Midland, became a board director for Tri-Star Trust Bank's board in 2006.



D. Brooke Smith, BSAr'80, BA'82, AIA, NCARB, LEED AP, is principal for SmithGroup's Workplace Studio in Detroit. Brook

served as board member of the AIA Michigan Chapter and as chair/panelist for the Michigan Council for the Arts and Cultural Affairs Equity Grant Program. He resides in Commerce Twp. with his wife and two daughters.

Chris A. Doebler, BSBA'82, was re-elected a board member of Center Line Public Schools in 2006, and is 2007-08 board treasurer. He lives in Warren.

Mark Farlow, BSAr'81, BA'82, will lead a Group Study Exchange, of business and professional men and women ages 25 to 40, to Turkey starting in Apr. 2008, sponsored by the Rotary Foundation. Mark has maintained a perfect attendance record with the Birmingham Rotary Club since joining four years ago.



Michael J. Krebs, BSAr'82, joined Yamasaki Associates Inc. in Troy, as principal of architecture. Michael, his wife, and two sons live in Grosse Pointe.

Craig S. Zokas, BSAr'82, became president of Schonsheck Inc. of Wixom in 2007. Craig had previously worked in business development for the firm, a general contractor for industrial construction.

Frederick F. Butters, BSAr'83, BA'84, was elevated to the Michigan AIA College of Fellows. Fred is an architect and a practicing attorney with the law firm, Thomas M. Keranen & Associates of Bloomfield Hills, where he defends design professionals in liability claims.

Michael A. Giovanni, BSAr'83, BA'84, AIA, is senior associate with Albert Kahn Associates, Inc. of Detroit. Michael's recent projects include Henry Ford West Bloomfield Hospital. He is an adjunct instructor and lives in Farmington Hills with his wife, Debbie, and three children.

Brian K. Gregorich, BSAr'83, AIA, is principal and leader of the architectural team at Ford & Earl Associates Inc. in Troy. Previously, Brian owned his own firm and also worked for JPRA.

James A. Segedy, BSAr'83, PhD, FAICP, was named a fellow of the American Institute of Certified Planners (AICP) in May 2006. James was recognized for his teaching legacy at Ball State University and for his work as director of the university's community-based program. He is a professor in the Department of Urban Planning at Ball State University in Muncie, IN.

Pamela F. Bafs, BSCE'84, is a senior estimator for Skanska USA Building Inc. in Southfield. Pamela earned an MSCE from the University of Michigan and is a doctoral candidate in civil engineering at the University of Maryland.

R. Keith Ponders, ACET'84, BSET'96, is senior associate at Albert Kahn Associates, Inc., in Detroit. Keith's experience includes the 500,000-sq.-ft. Chrysler Kenosha Engine Plant, and numerous press installations for General Motors and Ford. He lives in Livonia with his wife, Holly, and two children.

A L U M N I N O T E S

Michael E. Staran, BSME'84, is executive vice president of Enova Systems of Torrance, CA. Enova is a supplier of electric, hybrid, and fuel cell digital power management digital power systems. Earlier, Michael was president of Effective Solutions People LLC and worked for Decoma International division of Magna International, providing specialized consulting to OEM suppliers.

Andrew G. Karow, BSAr'86, BAR'91, is senior associate with TMP Associates Inc. of Bloomfield Hills. He was previously an independent architectural consultant. Andrew lives in West Bloomfield.

Michael J. Mackens, BSIM'86, displayed his photography at the Paint Creek Center for the Arts in Rochester, including his black and white photos of Paris, where he lived during a five-year assignment as vice president for an auto supplier. Michael and his wife live in Rochester.

Gary A. Salata, BSAr'86, is project architect for Neumann/Smith Architecture of Southfield. Gary lives in Canton with his wife, Jeanette, and children.

Jon E. Shackelford, BSME'86, is an attorney with the intellectual property team of Dickinson Wright PLLC of Bloomfield Hills. Jon earned his law degree from Wayne State University, and has international experience in preparing and prosecuting patent applications for electronic and mechanical products. He managed the patent portfolio of Federal-Mogul 1997-2004.

Jack J. Shubitowski, BSBA'86, is president and CEO for Huron Valley State Bank in Milford. Jack has a graduate degree in finance from Walsh College and is active in community and business groups. He lives in Milford with his wife, Romy, and three children.

Mark M. Alestra, BSMCS'87, is senior vice president of information and operation services for PMH Caramanning Inc. in Farmington Hills. The firm provides incentive, recognition, loyalty, certification accreditation, and other marketing services.



Dan Woodson's sons, Paul and Matthew, regularly operate Dan's 1984 student project at church competitions. Matthew (R) recently attended one of Lawrence Tech's Engineering Exploration Days.

Daniel G. Woodson, BSEE'84, may possess the oldest student project still performing exactly what it was designed to do. Twenty-three years ago, Dan and his lab partner, **Terry Frey**, BSEE'84, designed and built a device to capture the order of responses in quizzing competitions or pinewood derby races. The device remains in use today in monthly youth rallies. Dan said the project's memory chip contains the equivalent of three bytes of memory, a far cry from today's modern flash sticks with several hundred million times more memory. Dan is a manufacturing engineer with General Motors and he and his wife have five children.

Curtis J. Hutchins, BSEE'87, is vice president of Eaton Corp. and president of the Heavy Duty Transmission Division in Southfield. Curtis holds an MBA from the University of Notre Dame.

John P. Morand, BSBA'87, is director of human resources at Shainin LLC, a global quality consulting and training firm in Livonia. John is an elected member of SAE's Continuing Professional Development Group and resides with his wife and two children in Livonia.

Mark G. Nickita, BSAr'87, BAR'89, MAR'01, AIA, co-founder of Archive Design Studio in Detroit, was part of a 100-person team of architects from around the nation that helped in rebuilding efforts in Biloxi, MS, and in other areas where Hurricane Katrina ravaged local communities. The work was funded by the Knight Foundation. He also received the 2007 Distinguished Architecture Alumni Award.



Kirk T. Steudle, BSCE'87, has served as director of the Michigan Department of Transportation since February

2006. He has worked for MDOT for over 20 years, including service as chief deputy director, Bay Region engineer, and deputy metro region engineer, and has been part of a state and local partnership that annually assesses the condition of some 120,000 miles of Michigan roads. Kirk is married with two children and lives in South Lyon.

James C. Diez, BSME'88, ran for the Macomb Community College Board of Trustees in 2006. He was senior class president and has a master's in engineering management from the University of Missouri-Rolla. Jim is a manager at Ford Motor Co., and lives in Macomb Twp.

John J. Sammut, BSEE'88, BSBA'88, president of Electronic Product Integration Corp. (EPIC) in Rochester Hills, was winner of *Crain's Detroit Business* "Entrepreneur of the Year for Technology" in 2006, along with company COO, Jochen Lipp. EPIC manufactures electronic assemblies and provides testing and development. Since 2000, John has expanded the company from \$30 million to \$300 million a year, with plants in Ohio, Texas, Tennessee, and Mexico. He received Lawrence Tech's Alumni Achievement Award in 2007.



Michael E. Stobak, BSCE'88, ran successfully for the Romeo Community Schools Board of Education in May 2007, and is

vice president of Barton Malow Co. in Southfield. Mike has three children in Romeo District Schools and is board treasurer until 2011.

Joseph F. Fadool, BSEE'89, is vice president of manufacturing for Siemens Corp. in Huntsville, AL.

Paul J. Raine, BSBA'89, joined the firm of Fabrizio & Brook PC as an associate attorney in 2006. Paul earned his law degree from the University of Detroit Mercy and concentrates his practice in civil litigation and real estate. He is chair of the Computer Law Section of the State Bar of Michigan and an adjunct instructor at Walsh College.

1990-99

Robert L. Lipka, BSAr'90, AIA, was featured in the *Macomb Daily* for his work as project architect on Paton Manor in Romeo, a mixed-use development for Lombardo Co. of Washington Twp. Robert earned his MAR degree from Clemson University in 1992, is a licensed architect, and is owner of RLA Studio, Architecture and Urban Design, in Romeo.

John Paul Minear, BSAr'90, was named "Young Architect of the Year" by the Michigan AIA. Paul is senior architect with Integrated Design Solutions in Troy, and a lead designer in the college and university market. He earned his MAr from the University of Michigan and did postgraduate work in London, England.

Donald W. Phillips, BSBA'90, is executive vice president of automotive products for Foamex International Inc. in Linwood, PA. The firm manufactures flexible polyurethane and advanced polymer foam products.

Anthony J. Righi, BSBA'90, was interviewed in the *Romeo Observer* in February 2006 for work at his State Farm Insurance Agency in Romeo. Anthony volunteers for Habitat for Humanity.

Timothy P. Stevens, BSCE'90, married Laura Sue Badalamenti on July 29, 2006, at Milwood United Methodist Church in Kalamazoo. The couple resides in Commerce Twp.

A. Roger Tenney, BSEE'90, is director of the new performance services group for I.D. Systems Inc. of Hackensack, NJ. Formerly with Ford Motor Co., Roger in his new position helps customers define safety and productivity benefits through wireless technology.

Timothy Thorland, BSAr'90, BAR'91, was named one of *Crain's Detroit Business*'s 2006 "40 Under 40." Tim is executive director of Southwest

Housing Solutions Corp., a group that rehabilitates neighborhoods in Detroit to provide affordable housing and retail opportunities. Tim lives with his wife, Kim, and family in Oak Park.

Ronald S. Gray, BSME'91, became director of operations for the Toro Company's Windom Plant in St. Paul, MN, in January 2007. Ron served six years in the Navy and earned his master's degree in manufacturing systems engineering from the University of Michigan. He was formerly with Ford Motor Co. in St. Paul, and has climbed Mounts Rainier and Whitney.

Ron lives with his wife, Lorrie, in Minnesota.



Elise M. Matusko, BSBA'91, was promoted to corporate controller

for ReviewWorks in Farmington Hills in November 2006. She has an MBA from Walsh College and is a member of the Institute of Management Accountants. She resides in Waterford.

Michael T. Rogers, BSCE'91, ran successfully for a third term on the Oakland County Board of Commissioners, 14th District, in November 2006. Michael earned an MSCE from Michigan State University and is active in numerous community organizations. He and his wife, Kristin, have four children.

Marcell R. Todd, Jr., BSAr'91, was appointed director of the Detroit City Planning Commission in January 2007. Marcell joined the commission as an intern more than 16 years ago.

Thomas R. Black, BSBA'92, became president and COO of Titan Energy Worldwide, Inc. (TEWW) in January 2007 in San Diego, CA. Tom was instrumental in the development of the Sentry 500, TEWW's flagship product for the disaster response industry. He worked previously with Titan Energy Development Inc., BluePoint Energy Development Inc., DTE Energy Technologies, and ASCO Power Technologies. He has 25 years of leadership experience in cogeneration, standby and continuous power systems, complex electrical switches, and switching systems.

Darryl M. Heid, BSCvE'92, PE, is director of highway maintenance for the Oakland County Road Commission.

Elizabeth A. Howell, BSEE'92, was named vice president of operations for ITC Holdings Corp. in Novi in June 2007. She is responsible for the operation of the electrical transmission system and control area, operations engineering, compliance, training, safety, and security for the firm, which is the nation's largest independent electric transmission company. Elizabeth earned an MSEE from Michigan State University and is a NERC-certified system operator.

Margaret R. Murdock, BSEE'92, became executive director of automated systems and controls for Jervis B. Webb Co., in Farmington Hills in September 2007. Margaret previously worked for Pro-face America and Nematron Corp. She earned her MBA from the University of Michigan and resides in Dexter.

Laura A. Ponikiewski, BSET'92, senior designer for General Motors, was runner-up at the U.S. Deaf Golf Championship in July 2007 in Caseyville, IL. Laura is also a member of the Midwest Deaf Ladies Golf Associations where she has won the title seven times. She qualified to play in the World Deaf Golf Championship, in Perth, Australia in 2008.



Kurt M. Jaeger, BSAr'93, AIA, was promoted to project director for Clayco Inc. of Detroit, in September 2006.

Clayco is a full service real estate development, design, and construction firm. Kurt is a member of the American Society of Heating, Refrigerating, and Air Conditioning Engineers Inc., and a resident of Farmington Hills.



Robert G. Mazur, BSME'93, was featured in an article on changing careers in *The Detroit News* in December 2006.

After working for Ford Motor Co. and Visteon Corp., Robert found himself unemployed due to corporate downsizing in 2002. While working on his MBA at the University of Michigan, he developed the cat-shaped PurrFect Opener, a device to open bottles, medicine containers, and cans. (See previous issue,

Lawrence Tech Magazine.) With this invention, Robert started a company, B.A. Maze Inc., with his brother. He lives in Warren. For more, visit www.bamazecom.com.

Eric S. Mozer, BSME'93, an engineering manager for an automotive supplier, was a primary candidate for the Michigan House, 45th District, Rochester Hills, in 2006. A bicycling and alternative-energy enthusiast and racecar driver, Eric also has his own business producing a motorized bicycle that delivers 150 mpg. He and his wife, Helen, have three children. For more, visit www.mozmanmotors.com.

Benjamin Suarez-Platt, BSAr'93, BA'95, AIA, joined Eckert Wordell in Kalamazoo in April 2007.

Jodie M. Tedesco, BSCvE'93, was highlighted in the *Livingston County Press* in November 2006 for her work as county highway engineer, overseeing all new construction by the Livingston County Road Commission. Jodie and her husband, Tony, have three sons and live in Putnam Twp.

Business partners, **Kenneth L. Jones, II**, BSAr'94, BA'97, and **David C. VanderKlok**, BSAr'94, BA'97, AIA, moved their full-service architecture firm, Studio Intrigue Architects (www.studiointrigue.com), from Okemos to Lansing's Reo Town in June 2006. The firm is licensed in ten states and has 11 employees. Ken is a member of Lansing's Economic Development Corporation's Design Committee. David is past president of the Mid-Michigan Chapter of AIA. He and his wife, Jennifer, have two daughters.



Daniel L. Launstein, BSAr'94, AIA, LEED AP, joined Fishbeck, Thompson, Carr & Huber's Grand Rapids office in

December 2006 as a senior architect. Dan earned his MA degree from Clemson University.

Laura A. Clary, BSAr'95, launched her firm, iDesign and Planning LLC of Bloomfield Hills in January 2006. She worked previously for Harley Ellis Devereaux and Albert Kahn Associates.

Her firm specializes in design of research, medical, laboratory, and educational facilities. Laura earned a MA from the University of Illinois and is an adjunct instructor.

John Ezzo, BSBA'96, CBSE, is founder and president of New Image Building Services in Mt. Clemens, a company providing commercial cleaning and related services; the firm has over 800 employees in three states. John, who is president of Certified Building Service Executives (CBSE), credits his entrepreneurial start to adjunct instructor Don Reimer, BSIM'62, president of the Small Business Strategy Group, who encouraged him to pursue the janitorial business that helped John work his way through college.



David G. Herjeczki, BSAr'96, MA'98, AIA, was named "Young Architect of the Year" by the Detroit Chapter of AIA in 2005.

He has worked for JPRA Architects, Gensler's Beijing office, and Harley Ellis Devereaux in Southfield. David has served as a visiting juror for design studios at Lawrence Tech since 2000.

Jean M. Inman, BSCvE'96, who joined Spicer of Saginaw in 1996, was promoted to manager of wastewater services in 2006.

Robert J. Ban, BSAr'97, MA'02, is a project architect with DSA Architects of Berkley.

L. Lee Gorman, BSME'97, became director of the automotive business unit at Coherix of Ann Arbor, a high-tech supplier of halographic and optical inspection systems. Lee, a native of Wellesley, MA, earned her BA and MBA at the University of Michigan. She is married and lives in Ann Arbor.

Timothy A. Inman, BSCvE'97, earned his license as a professional surveyor in Michigan in 2007. Tim manages geographic information systems for Spicer Group in Saginaw.

Juan P.R.A. Ooink, BSME'97, opened the law firm, Giamanco & Ooink in Bolingbrook, IL, with his partner, Joseph Giamanco. The firm specializes in civil litigation, personal injury, and criminal law. Juan is a licensed patent attorney and invites alumni to consult him in legal matters. Call 630.679.0930.

Tami Lynn Salisbury, BSBA'97, MBA'01, was featured in an executive profile in the *Oakland Business Review* for her role as executive director of the Eight Mile Boulevard Association where she works to improve the image of the Eight Mile corridor. Tami, her husband and son live in Royal Oak.

Christopher M. Parrish, BSTe'98, married Connie Lynn Cothran of Livonia on Aug. 12, 2006. Christopher is manager of land and engineering development with Neumann Homes-Chicago Division. The couple lives in Chicago.



James J. Sharba, BSAr'98, is director of design for Hobbs+Black in Ann Arbor. James designs healthcare projects, and his

notable projects include Oakwood Dearborn Medical Park Ambulatory Care Center and Medical Office Building.

Wael Berrached, MSIS'99, was featured in *Crain's Detroit Business*, "Focus: American Dreamers." Wael founded the Farmington Hills-based eView 360, an Internet design company, in 1999. He was born in Lebanon, lived in Abu Dhabi, and earned his chemical engineering degree at McGill University. His firm earns some \$2.5 million in annual revenue and provides marketing, design, and technology services.

Nipa N. Shah, MSIS'99, president of Jenesys Group LLC in Novi, an online marketing and web site development firm, has founded the Michigan India Chamber of Commerce to help members of the Asian-Indian community in business and other areas. She told the *Detroit Free Press* in October 2007 that she wants her organization to become a resource center to meet education, mentoring, and networking needs of its members. For more, visit www.miicc.com.



Keith D. Toro, BSCvE'99, PE, a recipient of the Lawrence Tech ASCE Student Chapter's "Adjunct of the Year Award,"

also works as a project engineer for Soil and Materials Engineers, Inc. in Plymouth, and was recognized for the knowledge, skill, dedication, and enthusiasm he brings to Lawrence Tech's civil engineering program. He is active in the Associated General Contractors of America.

Angela M. Yaros, BSAr'99, was promoted to associate at Hobbs+Black, Ann Arbor.

2000-2008

Kimberly A. Kovac, BSAd'00, MBA'01 is executive vice president of human resources and Metaldyne University for Metaldyne Corp. in Plymouth. Kim also manages environmental, health, and safety functions for the company. She lives in Grosse Ile.

Christopher A. Schlaps, BSAr'00, MAr'04, AIA, and Christina Kaminskas of Ann Arbor were married in 2005. Christopher is a licensed architect for French Associates in Rochester. The couple lives in Dryden.

Amy S. Nollf, BSAr'01, BSIA'01, works for A3C's Interior Design Group in Ann Arbor.

Mark W. Saven, BSCvE'01, and Vanessa Lyn Sidock exchanged marriage vows on Sept. 17, 2006. The couple resides in Allen Park.

Rebecca M. Eftink, BSAr'03, and **Patrick R. Barry**, BSAr'02, MAr'06, were married on Aug. 5, 2006. Rebecca is project manager for GAV Associates in Southfield. Patrick is project manager for FSP Architects in Southfield. The couple resides in Lake Orion.

Constanita "Tany" Catarou, BSAr'02, BFAAI'02, of Waterford, was promoted to designer at JPRA Architects in Farmington Hills.



David Giroux, BSAr'02, MAr'05, has joined the architectural design staff of Loebel Schlossman & Hackl in Chicago,

IL. David worked previously for DAS Architects in Sterling Heights.

Scott LaSalle, BSCvE'02, PE, earned his professional engineer license in 2007. Scott is a member of Wade Trim's municipal services group in Detroit and is pursuing an MSCvE at Lawrence Tech.

Anne Kohnke Meda, MBA'02, is director of information technology for Park West Gallery, Southfield. Anne earned her PhD in organizational development from Benedictine University and lives in Grosse Pointe Woods.

Anthony J. Tyll, BSME'02, married Megan Elizabeth Guzman in 2005. Anthony has a graduate degree from Oakland University and is employed at Chrysler LLC. The couple live in Macomb Twp.

Natasha R. Vassallo, MBA'02, made transportation signs for Detroit's Super Bowl XL as a certified minority business enterprise. Natasha opened her store, Sign-A-Rama, in Commerce Twp. in 2004 after working as an energy engineer for ten years.

Jacob W. Beels, BSME'03, and Andrea Miller of Sterling Heights were married in 2005. Jacob works as an engineer for Lear Corp. in Southfield. The couple lives in Chesterfield.

Hajj Flemings, MBA'03, has written a book, "The Brand YU Life," that focuses on personal development and professional positioning. Hajj earned a MSME at Michigan Technological University where he lectures. He lives in Belleville with his wife, Kasandra.

Bethany A. Foldie, BSIA'03, joined the staff of Candlelight Light and Log in Bay City in January 2007, as a lighting consultant.

Christopher J. Lynn, MSIO'03, became sales associate for First Commercial Realty & Development of Plymouth in 2005. Christopher is a Six Sigma black belt and previously managed corporate environmental affairs for Keller Williams Realty and E&E in Plymouth. He is active in numerous community organizations.

Kristine M. (Dickerson) Menzing, BSME'03, and Forrest James Menzing, III, were married in 2006. The couple resides in Dearborn.

Angela Nelle-Pagel, BSAr'03, joined the architectural staff of Bradley J. Butcher & Associates PC of Gaylord in August 2007.

Karen L. Ter Haar, BSIA'03, married Brian Earl Cooper in 2005. Karen works for Modern Mirror and Glass in Roseville.

Steven J. Dedyne, Jr., BSAr'04, works for K4 Architecture in Southfield.

James M. Havlichek, BSAr'04, and Siobhan Williams were married in 2006. James is employed at Soe Architects and the couple resides in Flushing.

Brittani C. (Shell) Buckman, BSCh'04, and Richard Buckman were married in 2006. Brittani works for the Environmental Quality Co. in Detroit. The couple lives in St. Clair Shores.

Darek C. Nytko, BSME'04, and Amy Chamberlain were married in 2006. Darek works for the COE Press Equipment Corp. in Sterling Heights, and the couple lives in Lenox Twp.

Cunessa C. Sanders, MBA'04, was named director of the Flint/Genesee Job Corps Center in January 2007.

Brian R. Dwornick, BSME'05, is a project engineer at Roush Industries in Allen Park. He received the 2005 "Rumbaugh Outstanding Student Leader Award" from SAE during the SAE 2006 World Congress. He was team leader for Lawrence Tech's 2005 Formula SAE. Brian also won Lawrence Tech's "Mechanical Engineering Service Award."

ALUMNI NOTES

Ryan H. Garone, BSAr'05, was winner of "Redesign the Future" from the regional Emerging Green Builders Competition, conducted by the U.S. Green Building Council (USGBC), West Michigan Chapter, in April 2007 at Aquinas College. He received a \$1,000 prize for his sustainable project design. He is employed by Design Plus in Grand Rapids.

Alan Hladis, MSIO'05, was appointed manager of advanced manufacturing at HydroGen Corp., Cleveland, OH, in January 2007. Alan has more than 27 years of chemical engineering and manufacturing experience. His BSME is from Cleveland State University.

Eric Peterson, BSAr'05, has joined the architecture department at BSA LifeStructures in Indianapolis, IN. The firm is a national leader in design of healthcare, higher education, research and technology facilities.

Shaun M. Tate, BSME'05, married Lindsey Todorow in 2006. Shaun works at Mubea Inc. in Auburn Hills and the couple lives in Grand Blanc.



Justin M. Watts, BSAr'05, is sales consultant for Detroit Door & Hardware Co., supplier of commercial and industrial

doors. Justin lives in Royal Oak.

Elizabeth Beck, BSAr'06, is an architectural intern for DSA Architects in Berkley.

David Losinski, BSAr'06, works for DiClemente Siegal Designs in Port Huron.



James P. Petras, BSAr'06, is an architect for SmithGroup Inc. in Detroit. Jim formerly worked for True Designs

Services in Royal Oak. He is active in Habitat for Humanity and lives in Grosse Ile.

Melissa L. Rooker, BSAr'06, and Kyle Raymond were married in 2006.

Sean Simpson, BSME'07, at age 22, became the youngest scholarship benefactor with his \$20,000 pledge to create a fund in March 2007. Sean said he felt he had an obligation to help other Lawrence Tech students because all of his tuition bills were met by Lawrence Tech and Buell Scholarships. He won his first Lawrence Tech scholarship based on academic achievement as second in his class at Warren's Cousino High School in 2003. Sean said, "I really appreciate the opportunity I was given, and I wanted to give someone else an opportunity." He works at General Motors in Ypsilanti.

News For Alumni Notes

Use the space below to tell us about you or your fellow Lawrence Tech or DIT alums. Mail it to the Office of Alumni Relations, or e-mail 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 _____

Mark your 2009 calendars

Alumni Back to Campus Event – Feb. 14
Easter Bunny Brunch – March 29

For more information or to register for these and other events, visit ltu.edu/alumni or lawrencetech.net under Events, or call 248.204.2307.

Use the e-mail address above or mail to:

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

In Memoriam

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

When providing an obituary, please furnish as much information as possible, including the date of death and any Lawrence Tech- or DIT-connected survivors and their graduation dates. If sending a newspaper clipping, please include the date and name of the paper.

Frank B. Streberger, Cert'34, Feb. 20, 2007. He retired from Ford Motor Co. in 1973 where he had been a quality control engineer. As an engineering student at the University of Detroit, Mr. Streberger followed founder Russell Lawrence to the fledgling Lawrence Tech, and helped refurbish the original building. He was predeceased by his wife, Mary, and was survived by four of their five children and four stepchildren.

Stanley M. Walas, BChE'34, of Lawrence, KS, Mar. 13, 2007. He served on the Kansas University faculty for over 40 years and was professor emeritus of chemical and petroleum engineering. He authored books on kinetics and process equipment design.

Phillip A. Muller, BAeE'35, of Portland OR, Nov. 28, 2005. Mr. Muller served a number of firms in plant engineering, HVAC maintenance and installation, and retired in 1974 from Tektronix Inc. He was survived by his wife, Harriet and two children.

Frank R. Cassel, Jr., BSAeE'36, of Flushing, NY, July 31, 2004. His wife noted that "he was proud to be a graduate of Lawrence Tech." Classmate John Speck (see below) recalled a humorous incident about his friend nearly 70 years after the event: Mr. Cassel's onerous fraternity membership requirement was to bring back certified hippo manure – a mission Mr. Cassel enterprisingly accomplished with a visit to the Detroit Zoo. Mr. Cassel was retired from the Federal Aviation Administration and received the University's Alumni Achievement Award in 1952, and earlier had held positions with several aircraft manufacturers and airlines. He was active in many community organizations. He was survived by his wife, Rita, and three children.

John H. Speck, BSChE'36, of Detroit, Aug. 17, 2007. Running under the slogan of "Speck for Sec.," Mr. Speck was elected the first secretary of the Alumni Association when it was founded in 1938. He remained an active alumnus his entire life, and was a generous contributor and frequent visitor to campus. He chaired the 50th reunion celebration for his class in 1986. As a result of his generosity, the John H. Speck Collaborative Learning Lab was created in the Taubman Student Services Center. He was a retired chief engineer of the Amplex division of Chrysler. In a 2005 interview, he recalled a class assignment to create some automobile polish for Professor Harold Boothroyd. When applied to the professor's car, it removed the paint! Mr. Speck was predeceased by his wife, Vivian. Survivors include two daughters.

Alexander P. Gikkas, BSChE'37, of Corte Madera, CA, in 2005. He was survived by his wife, Bette.

James R. Bonnington, BSME'38, of Southfield, Apr. 6, 2006. He served 23 years before retiring as a Lt. Colonel in the Army Corps of Engineers. He held a number of supervisory positions with Chrysler and retired as a specialist in corporate manufacturing engineering, and was survived by his wife, Aleena, and six of their seven children.

John F. Schreiber, BME'39, of Grosse Pointe Farms, May 23, 2005.

Robert A. Johnston, BSChE'40, of Ballwin, MO, Sept. 17, 2005.

Lloyd E. Kamm, BME'40, of Dearborn, April 8, 2005. He was retired from Ford Motor Co. and was survived by his wife, Ann Mary, and three children.

Raymond L. Barth, BSME'41, of Grosse Pointe Park, July 31, 2006. He was retired from General Motors and was survived by his wife, Wanda, and three children.

Philip H. Emrich, BSChE'42, of Ventura, CA, Nov. 13, 2006. Recipient of Lawrence Tech's Alumni Achievement Award in 1953. Mr. Emrich spent 28 years in high tech industries, then led a business development firm, and eventually launched a business travel agency that grew to be one of the largest in Southern California.

Wilfred Clement, BSChE'43, of Detroit, July 31, 1994.



John 'Jack' W. Laister

BAeE'38, of Apple Valley, CA, Nov. 19, 2006.

An aviation pioneer, active alumnus, and retired president of Laister Sailplanes, as a student Mr. Laister helped lead aeronautic glider activities in which Lawrence Tech teams were so consistently successful that the national trophy was retired. During World War II he developed the revolutionary high wing/rear

door cargo plane design still used worldwide today. The huge glider he designed carried the heaviest payload of any plane of its era – up to 60 troops or various combinations of jeeps and artillery pieces, or a 6x6 truck. With one of the highest security clearances of the war, Mr. Laister's firm received the contract to build thousands of the gliders for use in an expected invasion of Japan had the atomic bomb failed to end the conflict. He is survived by three children ▲BJA

Clyde E. Juntunen, BME'43, of Ann Arbor, March 18, 2007. While serving in the Army Air Corps, he graduated from Yale and was flight engineer on B29s. He was retired from Ford Motor Co. Survivors include his wife, Betty, and three sons.

Edward J. Kornas, BSChE'43, of Macomb, Sept. 14, 2006. He was survived by his wife, Virginia, and four of their five children.

Ralph J. Stephenson, BSME'43, PE, of Mount Pleasant, March 11, 2006. A past president of the Michigan Society of Professional Engineers, and former member of Lawrence Tech's adjunct faculty in architecture, Mr. Stephenson was owner and president of Ralph Stephenson PE, PC. Among his early projects was the Burdick Street Mall in Kalamazoo, one of the first downtown malls in America. As vice president of Victor Gruen, his projects included Northland and Eastland. He served in the Army Corps of Engineers in World War II and earned his MSCE from Michigan State University. Among many prestigious awards, he received Lawrence Tech's Alumni Achievement Award in 1969. He served numerous professional associations, was a prolific author on engineering and management topics, and was also past president of the Mid-America Economic Development Council. He was survived by his wife, Elizabeth, and five of their six children.

Reino M. Meining, BEE'46, of Tecumseh, Dec. 20, 2005. He was a senior engineer for DTE Energy and was survived by his wife, Lillian.

Karl P. Sogioan, BSME'46, of Bloomfield Hills, March 11, 2006. He owned K.P. Sogioan Manufacturing Co., and was survived by his wife, Emma.



George W. Sierant, BME'47, of Beverly Hills, Aug. 10, 2007. A former member of the adjunct faculty, Mr. Sierant served 34 years as an

engineer with General Motors, where his accomplishments included development of the first successful rear-facing child safety seat that dramatically improved the likelihood of children surviving vehicle crashes. He also developed GM's Suggestion Program that encouraged and rewarded employees for ideas that improved safety and save energy. Mr. Sierant's Lawrence Tech education was interrupted by service in the Army Corps of Engineers during World War II. In 1997, he chaired the 50th Reunion celebration for his class. Predeceased by his wife, Betty Marie, he was survived by two sons and two daughters who kindly encouraged memorial contributions to the University.

Mario J. DeDonna, BSME'48, of Longboat Key, FL, Feb. 22, 2006. An Army veteran, he worked for General Motors for 32 years. He was preceded in death by his first wife of 38 years, Irene. He was survived by his wife, Lorraine, and three children.



Walter T. Hartung, BSME'48, of St. Clair Shores, July 18, 2007. Retired from Chrysler where he was a design leader in power plant research, he was a World War II Navy veteran, a member of SAE, UAW No. 412, and the Detroit Balsa Bugs, a model airplane club. A long-time active alumnus and generous contributor to Lawrence Tech, he established the Walter T. Hartung Endowed Scholarship.

Andrew Kocela, BSME'48, of Garden Grove, CA, Dec. 1, 2005. He was survived by his wife, Mary.

Gordon A. Price, BSME'48, of Wixom, Oct. 23, 1994.

George J. Studnicka, BSEE'48, of Eastpointe, Jan. 6, 2007. He served in the Army during World War II and was retired from Ford Motor Co. He was predeceased by his wife, Kathryn, and was survived by three sons.

Walter W. Brown, BSME'49, of Kennewick, WA, Apr. 2, 2006. He was founder of W. W. Brown Enterprises and was survived by six children.

Elmer C. Dreim, BSCvE'49, of Ocala, FL, Aug. 5, 2006. He was retired from Sun Company Inc. He was survived by his wife, Lura, two daughters, and two sons.

John Goulasarian, BSME'49, of Allen Park, Nov. 6, 2006. He was a retired engineer from Burroughs (Unisys) Corp., and served in the Army in the Korean War. Mr. Goulasarian earned his MBA from the University of Michigan and was survived by his wife, Louisa, and three children.

Richard E. Jeffers, BSME'49, of Rockford, MN, July 26, 2006. He was retired from General Motors and was predeceased by his wife, Rita.

Max Monheit, BSEE'49, of Commerce Township, May 5, 2007. He was predeceased by his wife, Dorothy. He was survived by his wife, Esther, and four children.

Arthur T. Noellert, BSEE'49, of Cape Coral, FL, Jan. 29, 2005. He was predeceased by his wife, Dorothy. He was survived by his wife, Helen L., and three children.

Orval A. Opperthausser

BSIE'48, BSEE'50, of Ortonville, Feb. 16, 2007.

Orval Opperthausser's college studies were interrupted by service overseas in the U.S. Marine Corps in World War II. On his return, he earned two degrees, pursuing them in the evening after putting in a full day's work and often walking to school to save the streetcar fare.

Showing unusual entrepreneurial savvy and skill, he distinguished himself by solving a perplexing industrial problem with a unique cushioned clamp, and then created an entire market for his product built around his steadfast commitment to quality, reliability, and integrity.

Mr. Opperthausser's firm, Hydra-Zorb Co., which he established in 1973, sets standards for industrial clamping systems serving, especially, the hydraulics, machine tool, and refrigeration industries. His company captured the lion's share of its market through an international network of exclusive distributors and loyal customers.

Mr. Opperthausser never forgot that his alma mater was here for him when he needed it, nor the needs of students who must juggle, by necessity, the demands of career, family, and college studies.

Among Lawrence Tech's most generous benefactors, he created, without desire for self-aggrandizement, the University's largest endowed scholarship – a fund that will ultimately provide the benefits of a Lawrence Tech education to hundreds of deserving students. He and his wife, Ann, also made a commitment to helping students excel in the University's high tech environment by funding the Orval and Ann Opperthausser Laptop Help Desk in the Taubman Student Services Center.

In recognition of his professional career and devoted service to his university, in 2000 Mr. Opperthausser was presented Lawrence Tech's Alumni Achievement Award, and in 2006 he received the Doctor of Engineering *honoris causa*. He was predeceased by his wife, Ruth. He is survived by his wife, Ann, one son, and four stepchildren. His brother was the late **Calvin F. Opperthausser**, BSEE'51. ▲BJA



Marvin J. Penn, BSCvE'49, of Southfield, June 20, 2006. He was survived by his wife, Phyllis, and three children.

Frank M. Schuster, BSEE'49, of Sedona, AZ, Dec. 8, 2006. He retired as owner and president of Schuster-Allen Associates.

Frederick A. Van Skiver, BSEE'49, of Macomb, April 2, 2005. He served in the Air Force during World War II. He was survived by his wife, Doris, and two of his three sons.

Joseph L. Anderson, Jr., BSChE'50, of Whitmore Lake, Jan. 26, 2006. He served in the Army during the Korean War, retired from Chrysler, and was a member of the Chrysler Yacht Club. He was head of the Franciscan Order at Old St. Patrick Catholic Church and caretaker of St. Benedict Monastery in Brighton for 27 years. He was survived by his wife, Margaret, and four children.

Richard V. Bernard, BSCvE'50, of Clinton Township, Feb. 6, 2007. He was a retired civil engineer for the City of Detroit, and a World War II and Korean War veteran. He was predeceased by his wife, Rita.

Robert C. Brunner, BSChE'50, of Detroit, Feb. 9, 2006.

Clifford D. Elkins, BSME'50, of Vicksburg, March 18, 2007. He was retired from Ford Motor Co.

Russell G. Falkenberg, BSME'50, of Monroe, March 24, 2007. He served in the Army during World War II and was a retired engineer for Ford Motor Co. He was survived by his wife, Leia, and three children.

John Gorman, BSEE'50, of St. Paul, MN, Feb. 10, 2007. He was founder of John Gorman Consulting and was survived by his wife, Nancy, and three children.

Leslie "Hale" H. Hamilton, BSBA'50, of Livonia, Oct. 10, 2007. He served in the Army Air Corps in World War II. Mr. Hamilton was retired from Ford Motor Co. and was survived by his wife, Doris, and two children.

Robert E. Huggett, BSME'50, of Rodanthe, NC, Dec. 2006. He was a retired automotive engineer with Houdaille Industries and was survived by his wife, Frances, and nine children.

Raymond F. Jenzen, BSME'50, of Flint, Feb. 10, 2006. He worked for 29 years at the Veterans Administration Hospital. He was predeceased by his wife, Ardis, and was survived by four children.

Robert B. Koskela, BSME'50, of Fenton, Oct. 7, 2007. He served in the Army in World War II and was retired from General Motors. Survivors include his wife, Helen, and two children.

Thomas M. McNichol, BSME'50, of Phoenix, AZ, Nov. 10, 2003. He was survived by four children.

Edward A. Mish, BSME'50, of Dearborn Heights, Sept. 13, 2005. He was retired from Ford Motor Co.

Phillip G. Mulligan, BSME'50, of Hilton Head Island, SC, and LaQuinta, CA, Jan. 7, 2007. He retired after 43 years with Philadelphia Electric Co. as an engineer in the gas division. Survivors included his wife, Elizabeth, four sons, and two daughters.

Joseph L. Terns, BSBA'50, of Livonia, Jan. 17, 2006. He was a retired product engineer for Chrysler and was survived by his wife, Joanne, and six of their seven children.

Stanley F. Bryniarski, BSME'51, of Ft. Myers, FL, Nov. 2, 2005. He was survived by his wife, Margie.

Michael V. Dorian (Asadourian), BSBA'51, of Royal Oak, Oct. 8, 2005. He was survived by his wife, Loucin, and three children.

Lawrence F. Dow, BSBA'51, of Farmington Hills, May 21, 2006. He was survived by his wife, Viola, and two children.

W. Dean Gersell, BSBA'51, of Saginaw, Nov. 1, 2006. He was survived by three children.

I N M E M O R I A M

Russell B. Herbert, BSAAE'51, of Grosse Pointe Woods, Feb. 16, 2007. He was retired from Ford Motor Co. and was survived by his wife, Mary.

Anthony Jakimovich, BSEE'51, of Schenectady, NY, Nov. 3, 2001.

Richard A. Kalata, BSME'51, of Clinton Township, Aug. 30, 2006. He was a Chrysler retiree and a World War II veteran of the Army. He was survived by his wife, Gloria, and two children.



Theodore Milek, BSME'51, of Livonia, Oct. 28, 2007. Mr. Milek was formerly on the board of directors of the Lawrence Tech

Alumni Association. He was retired as general supervisor of engineering, design, and drafting at General Motors Hydramatic Division. He and his wife, Dolores, were among survivors of the tragic sinking of the excursion cruiser *Ethan Allen* in upstate New York in 2005. He was survived by his wife, two daughters and a son.

Calvin F. Opperthaus, BSEE'51, of Farmington Hills, Nov. 12, 2006. Mr. Opperthaus was retired from the Michigan Bell Telephone Co. and was an active and generous alumnus, establishing an endowed scholarship. He was predeceased by his wife, Rosemary, and was survived by three children. His brother was the late **Orval A. Opperthaus** BSIE'48, BSEE'50.

Richard R. Reid, BSArE'51, of Grosse Pointe Woods, Nov. 21, 2004. He was retired from General Motors and was survived by his wife, Erno, and two children.

William K. Pence, BSEE'52, of Sarasota, FL, May 28, 2006. He was a retired vice president of operations for Detroit Edison and was presented Lawrence Tech's Alumni Achievement Award in 1975. He was survived by his wife, Virginia, and three children.

Donald L. Ryder, BSIE'52, of St. Clair Shores, May 21, 2007. He served in the Army during World War II and worked for Chrysler for over 30 years. He was predeceased by his wife, June, and is survived by two sons.

James Saunders, BSIE'52, of Spring, TX, March 11, 2005.

Roy J. Vick, BSIM'52, of Pittsburgh, PA, Aug. 24, 2005. He was retired from General Motors and was survived by his wife, Carol, and three children.

Carl Witt, Jr., BSEE'52, of Camden, SC, Jan. 23, 2007. Rev. Witt attended Eastern Baptist Seminary and was the pastor of Radnor Baptist Church in Radnor, OH, 1955-58, and founder and pastor of Delaware Bible Church in Delaware, OH, 1958-85. He was survived by his wife, Vera Mae, and six children.

Harold J. Boultinghouse, AIST'53, of Roseville, Dec. 30, 2005. He was survived by his wife, Regina, and two daughters.

LeRoy F. Bullock, AIST'53, of Phoenix, AZ, Nov. 2, 2006. He was predeceased by his wife, Dorothy, and was survived by three children.

Robert G. Coldwell, BSME'53, of Allen Park and Cuyahoga Falls, OH, Dec. 25, 2006. He was a retired project engineer for Kelbelco Stuart-Bolling Inc. A veteran, he was survived by his wife, Rose Marie, and five children.

Frank S. Draveski, BSIE'53, of Davison, Feb. 11, 2006. He served in the Air Force as a radio operator on B-17 bombers in World War II and was retired from Chrysler and Oakland University. He was survived by his wife, Doloris, and three children.

Harry F. Locke, BSHu'53, of Bloomfield, Feb. 23, 2006. He served in the Navy during World War II and retired as marketing manager for Detroit Edison, Oakland Division. He was survived by his wife, Virginia, and three children.

Raymond P. Toquigne, APTDT'53, of Detroit, March 16, 2006. He was survived by his wife, Gloria, and two children.

Donald W. Eckert, ARACT'54, of Roseville, Jan. 15, 2007. He was survived by his wife, Ethel, and two children.

William A. Freeborough, BSME'54, of Lexington, MI, Oct. 24, 2005. He served in the Army Air Corps in World War II and was awarded the Distinguished Flying Cross. He was retired from the U.S. Tank Arsenal in Warren. He was survived by his wife, Irene, and four children.

Leigh A. Gentges, BSIE'54, of Clarkston, Feb. 3, 2007. He was retired from General Motors and was survived by his wife, Patricia.

Robert A. Priebe, BSIE'54, of Prescott, AZ, May 4, 2007. A Navy veteran, he worked for Ford Motor Co., Chatham Supermarkets, and J. L. Hudson Department Stores. He was predeceased by his wife, Mary, and was survived by two children.

Matthew J. Oblak, ARACT'54, of Livonia, June 14, 2006. He was survived by four children.

Earle H. Sterling, BSME'54, BSIE'56, of Avon, OH, Aug. 25, 2004. He was a retired engineering manager from RBW Corp. and was survived by his wife, Jenny.

John A. Brown, ARACT'55, of Chesterfield, Dec. 30, 2006. He served in the Army Air Force in World War II, was a retired supervisor for General Motors, and was survived by his wife, Julia, and three children.

Ralph A. Hazen, AEE+T'55, of White Lake, May 8, 2007. He served in the Navy during the Korean War. He was survived by his wife, Doris, and six children.

Walter J. Lishock, BSEE'55, of Detroit, January 16, 2000.

Richard E. Miller, AMT'55, of Mt. Clemens, Nov. 13, 1997. He was retired from General Motors and was survived by his wife, Eleanore, and four children.

Robert C. Moody, BSIE'55, of Wilmington, DE, July 27, 1998.

Donald J. Smith, BSEE'55, of Canadian Lakes, MI, Dec. 29, 2005. He was a World War II veteran and retired from General Motors. He enjoyed a second career in financial planning. He was survived by his wife, Nellie, and two children.

Stanley Korenkiewicz, BSEE'56, PE, of Sterling Heights, May 11, 2007. Mr. Korenkiewicz, a Lawrence Tech adjunct faculty member who taught technology subjects for over 20 years, was a retired supervisor in the Building and Safety Engineering Department of the City of Detroit. A veteran of Navy service for 9 years, including World War II, he was survived by his wife, Leona, a daughter and four sons.

Ronald Kronbach, BSME'56, of Madison Heights, Nov. 5, 2005. He was survived by his wife, Mary "Jo," and three daughters.

Joseph U. Claerhout, BSCvE'57, of Palm Harbor, FL, Oct. 9, 2006. He was the retired owner of Claerhout Brothers Construction Inc., and was survived by his wife, Patricia, and three children.

Homer G. Clements, AEEt'57, of Mauldin, SC, Sept. 7, 2005. He served in the Marine Corps in World War II and in the Navy aboard a submarine during the Korean War. He was retired from the Detroit Edison Co., and was survived by his wife, Betty, a son and daughter.

Robert W. Mead, ARACT'57, of St. Clair Shores, Oct. 2, 2005. He was survived by his wife, Virginia, and three of their four children.

Robert L. Eck, ABCT'58, of Berkley, April 9, 2005. He received Lawrence Tech's Alumni Achievement Award in 1979 and was retired as executive vice president at Albert Kahn Associates. He was survived by his wife, Ruth, and two children.

John C. English, ARACT'58, of Harper Woods, April 18, 2000.

Harold C. Hice, AMT'58, of Dearborn, Oct. 3, 2005. He was retired from Ford Motor Co., and was survived by his wife, Inez, and two children.

Robert Repp, AMT'58, of Eau Claire, WI, April 14, 2007. He was retired as senior design engineer from Walker Manufacturing. He was preceded in death by his wife, Edna Ruth. He was survived by seven children.

Charles W. Ruppenthal, AMT'58, AChT'71, of Farmington Hills, Dec. 7, 2005. Retired from Ford Motor Co., he was survived by his wife, Marlene.

Perley C. Sollman, BSME'58, of Sterling Heights, Oct. 28, 2005. He was survived by his wife, Joan, and two children.

Richard P. Visger, BSCvE'58, of Brighton, March 29, 2002. He was retired from Clark Construction Co. and was survived by his wife, Marlene, and four children.

Jens E. Miller, ARACT'59, of Howell, May 21, 2007. He was a retired application engineer from American Standard. He was survived by his wife, Grace, and three children.

Richard D. Bosworth, BSME'60, of Puerto Rico, Sept. 25, 2003.

Gary E. Bullock, AMT'60, of Ft. Myers, FL, formerly of Akron, OH, Feb. 2, 2006. Survivors include his wife, Sherry, and nine children.

Edward J. Gehart, AMT'60, BSIM'75, of Washington, MI, Nov. 1, 2005. He retired as a plant engineer with Champion Spark Plug Co. He was survived by his wife, Leonor "Lee," and three children.

I N M E M O R I A M

Roger J. Kukkola, AMT'60, of Warren, April 21, 2006. He retired from General Motors in 1985 and later worked for Chrysler where his projects included the Dodge Viper, and for Ford Motor Co. He was survived by his wife, Vauna, and three children.

Owen B. Minch, AMT'60, of Livonia, Sept. 8, 2006. He was retired from General Motors and was survived by his wife, Dorothy, and two children.

Donald F. O'Keefe, AEEt'60, of Birmingham, also of Highland Beach, FL, April 27, 2006. He was survived by his wife, Shirley, and three sons.

Herbert C. Peck, Jr., BSEE'60, of Cherokee Village AK, formerly of Detroit and Madison Heights, March 20, 2007. He was survived by his wife, Carol, and six of their seven children.

Michael W. Sekora, ARACT'60, of Berkley, Feb. 6, 2007. In World War II, he served in the Navy in the South Pacific, Solomon Islands, and Guadalcanal. He retired as an electrical inspector for Berkley and Lathrup Village. He was predeceased by his wife, Mary, and was survived by two children.

Robert Burns, AEET'61, of St. Clair, July 3, 2006. He served in the Army Air Corps in Africa and Italy during World War II. He was a retired engineer from Mueller Brass Co. He was survived by his wife Ellen, and two children.

Raymond F. Prena, BSCvE'61, of West Bloomfield, March 31, 2006. He was survived by his wife, Doris, and two children.

Victor N. Rado, BSME'61, of Palm Springs, CA, Nov. 15, 1989. Mr. Rado was vice president of manufacturing for Mattel Toys.

Kenneth L. Robertson, AEET'61, of Garden City, Oct. 22, 2004.

Harry A. Schwanke, BSIM'61, of Northville, Sept. 12, 2005. He was survived by three children.

Donald R. Taylor, ABCT'61, of Bellaire, TX, March 1, 2006. He served with the Marines in the Korean War. He worked for Earle Equipment Co. in Detroit and Romulus, and was retired general manager for Hi-Way Equipment Co. in Houston. He was survived by his wife, Dorothy "Dottie," and four children.

Albert Kuen Yee, BSEE'61, of Northville, Jan. 5, 1997. He received Lawrence Tech's Alumni Achievement Award in 1975 and was retired from LTV Aerospace & Defense Co. He was survived by his wife, Wai.

Leroy J. Yesh, BSIM'61, of Livonia, Oct. 5, 2006. He was retired from the Ford Motor Co. and was survived by his wife, Kathleen, and three children.

Thomas P. DiPonio, ABCT'62, of Trenton, Dec. 23, 2002. He was president of DiPonio Construction Co.

Thomas I. Grojek, BSIM'62, of Walnut Creek, CA, March 23, 2006. He was survived by his wife, Sara.

Samuel G. Horton, BSEE'62, of Plymouth, Sept. 16, 2006. He traveled overseas for Ford Motor Co. where he worked for 35 years. After his retirement, he worked for 11 years with his son at Horton Plumbing in Plymouth. He was survived by his wife, Karen, and five children.

Robert T. Penny, AIST'62, of South Lyon, Jan. 20, 2007. He was survived by his wife, Barbara, and four children.

Charles R. White, BSEE'62, of Lapeer, April 29, 2006. He was retired from Burroughs Corp. and was survived by his wife, Lorraine (Kushel), and three children.

John M. Floyd, AEET'63, of Bloomfield Hills, April 2, 2005. He was survived by his wife, Marie.

Phillip E. Mendola, BSME'63, of Sterling Heights, Nov. 11, 2006. He was a retired section supervisor for Ford Motor Co. and was survived by his wife, Nancy, and three children.

Ronald C. Milbauer, BSIM'63, of Troy, Oct. 25, 2006. A retiree of General Dynamics, he was survived by his wife Barbara.

Roman J. Pyciak, BSME'63, of Sterling Heights, July 13, 2006. Retired from General Motors, he was survived by his wife, Anne, and one child.

Joseph J. Speth, AMT'63, of Noblesville, IN, July 28, 2006. He was a retired manager for Clark Equipment Co. and was survived by his wife, Yvonne, and four children.

James R. Stark, AIST'63, of Royal Oak, Jan. 15, 2006.

Thomas T. Tuttle, BSME'63, of Highland, CA, Oct. 9, 2005. He was retired from TRW and was survived by his wife, Irene, and four children.

Rodney Dickinson, BSEE'64, of Canton, Dec. 19, 2005. He was survived by his wife, Silvia, and two children.

Frederick A. Michel, Jr., BSME'64, of Alvin, TX, Nov. 10, 2003.

Stanley B. Mikelsavage, AIST'64, of Westland, Nov. 29, 2005. He was retired from Ford Motor Co. and was survived by his wife, Marlene, and three children.

David F. Robinson, BSEE'64, of Farmington, Oct. 17, 2006. He was retired from General Dynamics and was survived by his wife, Marge, and two children, including Michael D., BSCE'84.

Dante H. Santovicca, BSME'64, of Clinton Township, March 14, 2005. He was retired from DTE Energy and was survived by his wife, Nancy.

James W. Walker, BSME'64, of Loudon, TN, Feb. 27, 2006. He was retired chief engineer of base engine design with General Motors and was survived by his wife, Jeanette, and three children.

Walter Martynow, ABCT'65, of Redford, Feb. 16, 2006. He was survived by three children.

Robert C. Moore, BSCvE'65, of Waterford, April 17, 2006. He was predeceased by his wife, Janet, and was survived by three children.

David R. Rosteck, BSIM'65, of Novi, June 14, 2006. He was a retired instructor at Henry Ford Community College and was survived by four children.

Donald J. Zagorski, BSME'66, of Eastpointe, March 25, 2006. He was survived by his wife, Joan, and three children.

Joseph Kawecki, AMT'67, of Farmington Hills, Nov. 10, 2006. He was a retired supervisor from General Motors and was survived by his wife, Josephine, and a daughter.

Lawrence D. Pardington, AMT'67, of Rochester, July 22, 2006. He was survived by his wife, Susan.

Carl E. Ballard, BSME'68, PE, of Sun City West, AZ, Dec. 10, 2006. He served in the Army during World War II. He earned an MBA from the University of Michigan, and worked for a number of companies before retiring as chief engineer from Kelsey-Hayes Co. and later, Allied-Signal. He was survived by his wife, Virginia, and five of their six children.

Danny Bogush, AEET'68, of Troy, Jan. 27, 2006. He was a retired electrical design engineer from Ford Motor Co. He was survived by three children.

James P. DeRonne, AMT'68, of Franklin, June 29, 2005. He was retired from General Motors. He was survived by his wife, Kathy, and eight children.

Harvey A. Wagner, HD'69, of Grosse Pointe, July 30, 2005, at the age of 100. Mr. Wagner retired from Detroit Edison as executive vice president after 42 years of service. He graduated from the University of Michigan in 1927, was past president of the Engineering Society of Detroit, and was a pioneer developer of nuclear power and founder of the Fermi Project in Monroe. He received the Doctor of Engineering, honoris causa, from Lawrence Tech in 1969 and presented the commencement address. Mr. Wagner was predeceased by his wife, Eleanor.

Michael C. Bullion, BSME'70, of Farmington Hills, July 27, 2006. He was a director for Visteon Corp. He was survived by his wife, Karen, and three children.

Martin L. Witkop, BSME'70, of Sanford, Nov. 15, 2006. He built and managed recycling plants and was a senior project engineer for Coastal Gas & Storage Co. in Saginaw. He was survived by his wife, Donna.

Kenneth R. Brosch, BSIM'71, of Hometown, IN, Apr. 10, 2004.

Dean A. Johns, BSAr'71, of Independence, May 11, 2007. He was an architect with Harley Ellis Devereaux, and was survived by his wife, Judy, and two sons.

Eugene J. Krol, BSIM'71, of Northville, Oct. 14, 2006. He retired from the FBI after serving 30 years as a special agent. He was survived by his wife, Marilyn, and three children.

Guy J. Lombardi, BSIM'71, of Troy, Aug. 19, 2006. He retired from the Air National Guard after 21 years and was retired from General Dynamics. He was survived by his wife, Carol, and a son.

Richard A. Nawrocki, BSIM'71, of Northville, April 20, 2007. He was president and CEO of CMI-Management Services Inc. and was survived by his wife, Janet, and six children.

Robert W. Sharp, BSIM'72, of Oscoda, Oct. 18, 2005. He was a Vietnam veteran and recipient of the Purple Heart. He was survived by his wife, Denise, and three children.

Lawrence Bayma, BSIM'73, of Rochester Hills, Feb. 16, 2007. He served in the Air Force in Vietnam.

I N M E M O R I A M

William L. Christo, BSAr'73, of Detroit, May 22, 2007. He was owner of William L. Christo Architect for 25 years. He was survived by his wife, Carol, and a son.

Douglas V. Collins, BSIM'73, of Warren, March 31, 2007. He was a retired engineer from General Motors Saturn Division. He was survived by his wife, Judy, and a stepchild.

Dennis H. Granata, AEET'73, of Livonia, Jan. 24, 2007. He was survived by his wife, Judith, and two children.

William O. Jones, ACmT'73, of Troy, February 2003. He was a retired systems engineer from EDS and was survived by his wife, Sharon, and three children.

Lee E. Naimolski, BSEE'73, of Macomb, 1998. He was retired from Ford Motor Co.

Gene Scholma, BSAr'73, of Troy, formerly of Jenison, Feb. 13, 2007. He was a facilities engineer with Chrysler and was survived by his wife, Diane, and two daughters.

William E. Sey, BSIM'73, ADP'78, of White Lake, Feb. 9, 2006. He was survived by his wife, Ruby, and two children.

Leslie R. Smith, BSIM'73, of Waterford, July 14, 2005.

Robert W. Thiel, BSIM'73, of Bloomfield Hills, Dec. 13, 2006. He was survived by his wife, Christine.

Robert W. Watson, BSIM'73, of Gaylord, Feb. 12, 2007. He was a retired engineer from Ford Motor Co. and was the penalty box keeper for the Detroit Red Wings 1965-80. Survivors include his wife, Judith, and seven children.

Paul L. Busse, AMET'75, of Ferndale, March 29, 2006. He was survived by two sons.

George W. Rotare, BSIM'75, of Royal Oak, April 28, 2007. A veteran of World War II service in the Army Air Corps, he is survived by his wife, Terry.

Robert K. Taylor, BSIM'75, of Livonia, NY, Feb. 17, 2007. He was survived by his wife, Jean, and two children.

Rodney W. Van Kempen, BSCE'76, PE, of Bloomfield Hills, March 26, 2007. He earned his MBA at Central Michigan University and worked both as an engineer and estimator and as a stockbroker and financial planner.

Frederick R. Smith, BSME'76, of Inkster, Nov. 7, 2006. He was survived by his wife, Carole Jean, and two children.

Harold J. Guenther, BSBA'77, of Rochester Hills, June 28, 2007. He was CEO of Devenir Corp., an Army veteran, and was survived by his wife, Joleen, and four of their five children.

Vincent F. Cornacchia, BSIM'79, of Shelby Township, Jan. 20, 2007. He was retired as supervisor of production engineering at Chrysler, and was survived by his wife, Diane, and two sons.

Geri Lynn Forward (nee Tarczynski), BSBA'79, of Superior, CO, Dec. 8, 2005. She was survived by her husband, K.C., and two children.

Gregory S. Mailloux, ABCT'79, of Ann Arbor, April 11, 2006. He was director of facilities for the Detroit Public Library System. He was survived by his wife, Pat Mueller, and three children.

Gary D. Jones, BSIM'81, of Sun Lakes, AZ, May 11, 2006. He was retired from Chrysler and was survived by his wife, Joyce, and one daughter.



John F. Watton, BSME'81, of Rochester Hills, Dec. 2, 2005. Dr. Watton joined Lawrence Tech's faculty in 1988 and was chair of the Department of Mechanical Engineering 1990-91 before returning to private practice. He earned his Lawrence Tech degree in the evening while working for the General Motors Research Labs and later earned master's and doctoral degrees from MIT. He was retired from Corp. Technical Center, Inc., and was survived by his wife, Sharon, and three children.

James F. Weishaar, BSIM'81, of Rochester Hills, Sept. 20, 2005. He was program manager for Collins & Aikman. Survivors include his wife, Joyce, two children and his father William Weishaar, BSME'61.

Douglas C. Logan, BSEE'82, of Livonia, Sept. 9, 2005. He worked for Texas Instruments, and was survived by his wife, Kathy, and three children.

Roger J. Malott, BSIM'82, of Commerce Township, June 14, 2006. He was survived by his wife, Diane, and three children. His father-in-law was Anthony DiGiovanni, AMT'58.

Theodore H. Mecke, Jr., HD'82, of Grosse Pointe Farms, Sept. 21, 2005. He was retired as vice president of public affairs at Ford Motor Co. and later served as president of the Detroit Economic Club. He was survived by his wife, Eleanor, and three sons.

Kurt W. Roskelly, BSCE'82, of Livonia, May 26, 2007. He was president of Camborne Construction. He was survived by two children.

Kenneth B. Brzcinski, BSEE'84, of Livonia, March 20, 2006. He worked for Texas Instruments.

Charles P. Werthman, AIET'84, of Plymouth, April 20, 2006. He retired as a plant manager for plastics manufacturing. He was predeceased by his wife, Doris.

James J. Babiarz, BSME'85, of Troy, MI, Sept. 24, 2007. He worked at S. Himmelstein & Co. as a sales engineer. Survivors include his fiancée, Jacqueline Femminio.

Michael L. Stewart, BSIM'85, of Detroit, Aug. 11, 2005. He worked at Ford Motor Co., and was survived by his wife, Marietha, and two children.

Timothy L. Wright, BSME'85, of Saline, July 13, 2006. He worked for Ford Motor Co. and was survived by his wife, Anne.

Ellen D. Friedman, BSBA'86, of Farmington, May 17, 2007. She was secretary/treasurer of SignText Inc. Survivors include a son.

Terrence C. Garmen, BSCE'86, of Harrison, June 30, 2007. He owned the Quick & Clean Carwashes in Roseville, Shelby Township, and Romeo. He was survived by his wife, Cindy, three children, and two stepchildren.

Carole E. Russell, BSBA'86, of Farmington Hills, Aug. 8, 2006. She was retired from Eaton Corp. and was survived by four children.

Joseph M. Tata, BSME'87, of Troy, Sept. 4, 2006. He was survived by his wife, Reena, and one child.

Tracy K. Kohls, BSEE'88, of Canton, Nov. 17, 2006. She was a supervisor at Ford Motor Co. and was survived by her husband, Dan, and one son.

Michael J. Velez, BSEE'88, of Madison Heights, Feb. 21, 2007. He was survived by his wife, Lilibeth.

Panayotis Souvatzidis, AMET'90, BSET'92, of Troy, March 14, 2006. A diagnostic technician for Estate Motors, Ltd., he was survived by his wife, Veryll, and a daughter.

David J. Zinner, BSAr'91, of Monroe, July 23, 2006. A licensed builder, he and his father operated Zinner Builders in Monroe. He also operated the David Zinner Co. and served as secretary and chairman of the Monroe Historical Commission. He leaves his wife, Pamela and three children.

Janet (Bell) Heleski, BSHU'93, of Madison Heights, Nov. 22, 2006. A popular campus personality, Ms. Heleski joined Lawrence Tech as a student employee, served as secretary in the College of Management, and advanced to applications analyst in the IT Service Delivery Department. Survivors include her husband, Steven, BSEE'86, who provides service delivery in the University's Edward Donley Computer Center, and a son.

Matthew S. Schneider, BET'93, of Troy, May 3, 2006. He leaves his wife, Deborah.

Christopher E. Lindberg, BSET'94, MSIO'96, of Farmington Hills, Oct. 14, 2004. He worked as a manufacturing engineer for Ford Motor Co. He leaves his wife, Eileen, and two daughters.

Gregory H. Amey, BSEE'95, of Canton, Dec. 27, 2005. He worked as an electrical engineer for Borg-Warner and General Motors. Survivors include his wife, Sharon, and two children.

Zygmunt Novak, AIMET'96, of St. Clair Shores, Apr. 2, 2007. He leaves his wife, Teresa, and two children.

Irene Atento Cedro, BSBA'97, of Farmington, April 25, 2007. She was employed at Bosch Corp. Survivors include her husband, Manuel, BSEE'98, and three children.

Charles W. Hays, BSEE'98, of Farmington Hills, Dec. 14, 2005. He was survived by his wife, Carol.

Frank T. Belyk, Jr., BSEE'01, of Redford, April 11, 2007.

Yueh-Lin E. Chang, MSIS'01, of Barnaby, British Columbia, in 2006.

Daniel J. Wilber, BSCvE'04, of Farmington Hills and Rose City, Sept. 13, 2005. He was the victim of an automobile/tanker crash. He was employed by Orchard, Hiltz & McCliment Inc. Survivors include his parents and three sisters. A scholarship fund was established in his memory.

THE LAWRENCE TECH FAMILY

DIT IN MEMORIAM

Robert D. Champlin, AIA, APA, Dec. 21, 2007. He retired in 1996 as a professor of architecture and had served on the faculty since 1961.

Professor Champlin was a strong proponent of student projects that solved real world planning problems in surrounding communities and introduced students to working with neighborhood residents, business, and governmental leaders. Over the years his classes in architecture and urban planning involved thousands of students in dozens of redevelopment projects in Detroit, Windsor, and in Milford, Rochester, Troy, Southfield, and other suburbs. A number of the student proposals sparked subsequent development.

Professor Champlin also advocated that good design should be applied to low cost housing as readily as to high end housing. In 1979 he led a group of senior students to research construction using sisal, a fiber native to many parts of the world. His work with Lawrence Tech's Ssesse Island project in Africa incorporated sisal as the primary building material.

Professor Champlin held degrees from the University of Cincinnati and Wayne State University and served with several architectural firms before joining Lawrence Tech. Survivors include his wife, Betty and three children.

Frances Corbell, Dec. 11, 2005. She served as a secretary in the Department of Mechanical Engineering from 1993 to 2005. Survivors include a son and daughter who kindly established a scholarship in memory of their mother.



Kevin A. Kelch, a professor in the Department of Humanities, Social Sciences and Communication, April 8, 2008.

He taught "Technical and Personal Communication" and many other communication-related classes. He served as director of the Lawrence Tech Scholars, Arts and Sciences Undeclared Students, and General Studies programs. Professor Kelch founded the Lawrence Tech Scholars program, which was funded by a multi-year grant from the King-Chavez-Parks initiative of the state's Department of Labor and Economic Growth.

For several years he was director of the Diversity Seminar Series. He chaired the committee that developed and implemented the Assessment of Oral Communication. He developed the initial proposal and recruited the advisory board for the Media Communication degree program.

Mr. Kelch was widely recognized as an excellent and caring instructor and was the faculty winner of the 2000 Marburger Award for Excellence in Achievement.

Mr. Kelch came to Lawrence Tech in 1991 after teaching at Wayne State University and Eastern Montana College. He earned degrees from Southern Illinois University and Eastern Michigan University.

Keith K. Kesling, May 16, 2005. He served on Lawrence Tech's mechanical engineering faculty 1976-93, originally with the adjunct faculty, and was an associate professor at the time of his retirement.

Before joining Lawrence Tech, Professor Kesling had a 36-year career with the design staff of General Motors, and acquired over 70 U.S. and foreign patents. He held degrees from the University of Dayton and the College of the Dayton Art Institute.

He was survived by his wife, Mary, four daughters, including **Gayle Schaeff**, who works in the College of Architecture and Design, and a grandson, **Ron Schaeff**, BSBA'93.

Hugh Thompson, former president of Detroit Institute of Technology, of Florida, Mar. 15, 2006. After leaving DIT he was named chancellor of Indiana University-Kokomo and in 1990 became president of Washburn University and later, academic vice president of Clarke College and Meyers University. He was survived by his wife, Patricia, and four daughters.

Alex J. Etkin, BSArE'40, of Longboat Key, FL, and Orchard Lake, Nov. 22, 2005. Former owner of A. J. Etkin Construction Co., his favorite construction project was Temple Beth El in Bloomfield Twp., designed by architect Minoru Yamasaki. He served in the Army Corps of Engineers during World War II and was wounded during the D-Day invasion. Survivors include his wife, Toby, and three children.

Arthur W. Buttery, BSME'42, of Clinton Township, July 13, 2006. He was survived by his wife, Kaija, and four children.

John Patterson, BSCvE'44, of Chicago, IL, Dec. 23, 2005.

Carl Kalitta, BSME'45, of Horse Shoe, NC, Jan. 31, 2007. He was survived by two children.

Arnold J. Benes, BSIM'47, of Port Huron, April 27, 2007. He served DTE Energy Co. for 45 years, and had advanced to auditor general at the time of his retirement. During World War II, he served in the Army Air Corps in North Africa, Italy, and Germany. After Detroit Institute of Technology closed in 1981, he aided Lawrence Tech's Alumni Office in developing new service programs for DIT alumni at Lawrence Tech. He was survived by his wife, Nancy, and five children.

Ralph Marinelli, BSME'48, of Royal Oak, Sept. 8, 2006. He retired from Rudolph Steiner Research Center as director of research. He was survived by his wife, Phyllis.

Arnold W. Knopp, BSAS'50, of Trenton, October 2003. He was survived by his wife, Colleen.

John L. Belko, BSAr'54, of Livonia, Aug. 1, 2006. He was a retired architect from DTE Energy and was survived by his wife, Ellie, and one daughter.

Kenneth J. Kiihr, BBA'65, of Taylor, Aug. 15, 2006. He was a longtime HUD employee and retired from the City of Taylor. He was survived by his wife, Janet.

James S. Gaffke, BSBA'67, of Sterling Heights, Oct. 25, 2006. He was retired as director of accounting from RDA Group and was survived by his wife, Marlene, and three children.

Report to Investors | INVESTORS



REPORT TO INVESTORS

PRESIDENT'S MESSAGE

President Walker joins Janielle Tchakerian of University Housing and members of the Sigma Pi fraternity in christening the Spirit Rock on campus.



President Walker welcomes freshmen and transfer students to Lawrence Tech at the annual Convocation held at the Ridler Field House in August.



Sir Isaac Newton once acknowledged his extraordinary accomplishments in science by saying that he was able to stand on the shoulders of leaders who had gone before. So it is with us as we labor,

together, to lead Lawrence Technological University to ever higher levels of success and accomplishment.

The Lawrence Tech community can – and should – take great pride in all that has been accomplished over the past 75 years. The litany of achievements is remarkable. Most noticeably, in recent years and with the help of many, we've made tremendous strides improving the campus learning environment.

And yet, as beautiful and as useful as the new buildings and facilities are, they do not define the University – who we are, what we stand for, and our strength as a university. Lawrence Tech's soul is made

up of our people, our commitment, our will to serve our students, our talented faculty and staff, our remarkable alumni, generous donors, and our larger community of corporate and governmental partners.

Over the past two years, representatives from all parts of this community were called upon to chart a realistic vision for the future of the University. They took into account the needs of the region's industries and professions, emerging economic sectors, the challenges of the global economy, and the University's historic strengths and reputation in architecture, engineering, and science education. They identified new or expanded opportunities for a pre-eminent private university producing leaders with an entrepreneurial spirit and a global view.

REPORT TO INVESTORS



President Walker talks to faculty and staff about new initiatives during a reception in the UTLC gallery.

What resulted were revolutionary new editions of the University's strategic and master plans. It is important to stress that these were not exercises in developing "wish lists" aimed at fulfilling every whim. Rather, this was a calculated study of how best the University could achieve pre-eminence by building upon its strengths, capitalizing on its competitive advantages, and leveraging its reputation and other assets to improve

or build new programs that are unique and distinctive. The strategic plan guides and applies benchmarks and achievement criteria to operations and goals over the next several years, and the master plan charts the physical evolution of the University over the next 25 years.

During today's challenging and increasingly competitive times, we are witnessing corporate failure, bankruptcy, and even scandal at rates

unparalleled in our lifetimes. Many high-profile companies have gone out of business, leaving investors and retirees with huge losses. Many leaders betrayed the trust of their shareholders and investors. Michigan manufacturers, long among the cornerstones of America's economic might, are undergoing fundamental changes as they struggle to adjust to changing markets.

Fortunately, through all of this, we have been able to take advantage of Lawrence Tech's historic and distinctive strength as an agile university, one that can quickly anticipate changing needs and evolve new programs that address the rapidly changing economy. We have been aggressive in developing innovative new programs in emerging sectors such as the life sciences, alternative energy, sustainable architecture, mechatronics, international management, transportation design, and media communications, to name but a few. We are also developing programs and partnerships internationally, and have added new doctoral programs.

While we pride ourselves on theory and practice – our motto and educational philosophy since our founding, we offer much more. We also pride ourselves on educating

President Walker had made communicating with alumni one of his top priorities. Here he discusses the University's future plans with Ray Moy, BSCHE'43, during a trip to Atlanta. Lawrence Tech's Volunteer of the Year Award is named in Moy's honor. Moy passed away Feb. 8, 2008.



REPORT TO INVESTORS

the whole person with a strong core curriculum that provides a foundation for a well-educated person. We take pride in developing good communicators. One of the keystones of my administration is a new focus on programs that develop leadership and entrepreneurship in our students.

Leadership and integrity are key to future achievement. And yet, great leaders are in short supply. This is why I'm making sure that Lawrence Tech emphasizes leadership as a fundamental ingredient in the education that we offer to all of our undergraduate students – that here our focus is, "Leaders in the Making."

The planning process for this started when I was provost. For two years now we have been phasing in strong leadership development components for all undergrads. This program will ultimately provide leadership development activities in each of the four years of undergraduate study, in all programs and majors.

The aim is 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. "Leadership," as Peter Drucker said, "is lifting a person's vision to higher sights, the raising of a person's performance to a higher standard, and the building of a personality beyond its normal limitations."



During one of my visits with our partner schools in Asia, I happened to read a Chinese proverb that said, "An army of a thousand is easy to find but, ah, how difficult to find a general." The types of educational programs we're adding will create more "generals," more great leaders – and that's good for our graduates, good for our corporate partners, our community, and our country.

In recent years, the dedication and teamwork of Lawrence Tech students, faculty, staff, our trustees, alumni, donors, and other friends have led to great progress on many fronts – in our agility to develop and offer new programs that meet the needs of changing markets, and the success of our graduates and their organizations competing in the global economy. New delivery methods like LTU Online are bringing the opportunities of a Lawrence Tech education to

an ever greater audience, and we continue to look to package our offerings in ways that are even more effective and convenient.

Lawrence Tech has a great future, and we are well on our way to becoming the educational leader that so many have envisioned. To sustain this momentum we need your involvement, ideas, counsel, and support as we continue to improve facilities, increase the endowment, add vital new scholarship and financial aid options, and do all those things that will advance this great university to ever greater prominence and success in serving students.

Thank you!

Lewis N. Walker, PhD
President and CEO

Every new student shakes hands with President Walker and Provost Vaz as part of the Convocation ceremony.

REPORT TO INVESTORS

BOARD OF TRUSTEES

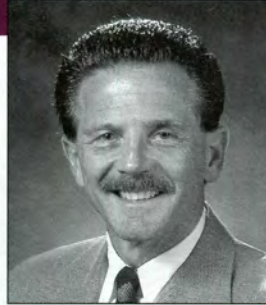
CLASS OF 2011



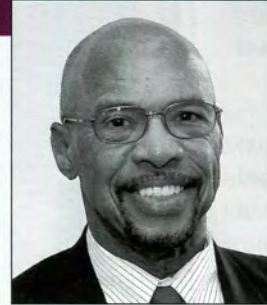
Douglas E. Ebert
Former Chief Operating
Officer
Cranbrook Educational
Community



John E. Elliott, II, BSBA'80
Chairman
AMI Holding
Corporation, Inc.



Larry D. Lyons
Vice President
Small Vehicle Production
Team
Chrysler LLC



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



James E. Queen
Group Vice President,
Global Engineering
General Motors Corp.

CLASS OF 2010



Lloyd E. Reuss
Chairman of the Board
Lawrence Technological
University
Former President
General Motors Corp.



Lauren L. Bowler
Former Vehicle Line
Executive
Midsize/Large Cars Int'l
Adams Opel AG
General Motors Corp.



Douglas DelGrosso,
BSME'84
Vice President, Operations
North American Braking &
Suspension
TRW Automotive



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



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

CLASS OF 2009



Joseph E. Champagne
Chairman, Board of Directors
Ross Controls
Former President
Oakland University



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



Barbara Samardzich
Vice President, Power Train
Operations
Ford Motor Co.



David B. Wohleen
Former Vice Chairman
Delphi Corp.



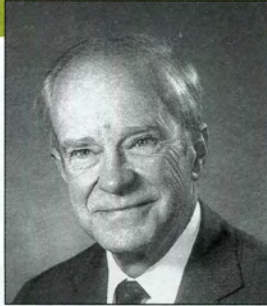
Ex officio
Lewis N. Walker
President and CEO
Lawrence Technological
University

REPORT TO INVESTORS

ADVISORY MEMBERS OF THE CORPORATION



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



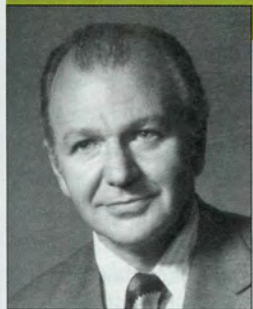
Edward Donley, BME'43
Former Chairman, Air
Products and Chemicals,
Inc.



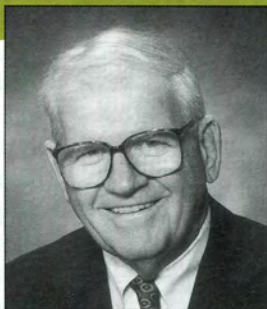
Esther G. Edwards
Chairman and CEO,
Motown Historical
Museum, Inc.



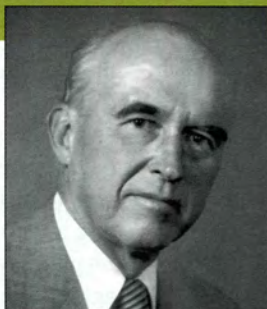
William D. Innes, BSME'53,
Former Executive Vice
President, Ford Motor Co.



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



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



Sydney L. Terry
Consultant to Business,
Government, Industry;
Former Vice President, Public
Responsibility and Consumer
Affairs, Chrysler LLC

REPORT TO INVESTORS

PROVOST'S REPORT



Harold Friedman, an adjunct professor who teaches physics, received congratulations for 45 years of service at Lawrence Tech from President Walker, Provost Vaz and Dean Louis DeGennaro of the College of Management at the 2007 Employee Recognition luncheon.

Your Lawrence Tech community accomplished much during the 2007-2008 academic year and there are exciting plans to come. We are proud of the many awards that students, faculty, and the University itself were accorded. They are apt recognition of the contribution this university makes to the world-at-large.

Michigan Gov. Jennifer Granholm, U.S. Sen. Carl Levin, several representatives of Congress, and scores of industry executives have visited campus recently to witness the work students and faculty are doing in alternative energy, sustainability, and finding new uses for new materials. Campus visitors, as detailed elsewhere in this magazine, also included Dr. Shirin Ebadi, recipient of the 2003 Nobel Peace Prize, who addressed the campus as part of the celebration establishing

the College of Management's Center for Global Leadership and Understanding. Honorary degrees were awarded this past year to distinguished architecture alumnus Victor Saroki; Sharad Pawar, the minister of agriculture of India, for his accomplishments benefitting the people of his nation; and His Highness Shaikh Khalifa bin Salman Al-Khalifa, prime minister of the Kingdom of Bahrain, for his accomplishments in advancing education and other progress for citizens of his nation.

We seek to continue to build a campus environment that broadens the professional and personal goals of our students to lead and contribute to society as learned citizens. Among the initiatives this past year:

■ **Proud Heritage, Bold Future:** As Lawrence Tech celebrated its 75th anniversary this year, the dreams of the founders, the Lawrence brothers, have become a real-

ity that even they would have had difficulty imagining. We have over 30,000 graduates. Some 4,600 students represent 25 states and 38 nations and pursue over 80 undergraduate, masters, and doctoral programs. The University is cited among *U.S. News & World Report's* Best Colleges and Intel's "Top 50 Unwired Campuses."

■ **Leadership Program:** The new Leadership Curriculum for all undergraduates is now in its second year of phase-in. The curriculum started with freshmen in 2007. This fall the sophomore course, "Leadership: Models and Practices" was implemented. Ultimately, all Lawrence Tech undergraduate students through their senior year will be exposed to what leadership entails and the rewards it provides. As the program is integrated into all curricula, undergrads will gain experiences that allow them to practice and develop leadership skills and ultimately enhance their contributions to society and their professions.

■ **Sustainability Focus:** Lawrence Tech has emerged as a leader in sustainable design and energy efficiency through its Colleges of Engineering and Architecture and Design. Several students won awards for outstanding sustainable solutions in architecture. The Element One student team took first place in design for the Formula Zero hydrogen fuel-cell-powered racer competition that began this summer.

■ **Applied Research En-**

REPORT TO INVESTORS



Lawrence Tech freshmen team up to form the numbers of the year they have embarked on their college careers. Campus enrichment programs like Discovery Days that aid the transition to university life for incoming students are made possible by the contributions of alumni and other friends of Lawrence Tech.

ties to develop entrepreneurial skills. The Quest program differentiates Lawrence Tech's College of Arts and Sciences from any other liberal arts program, and aligns with the professional mission of the University.

Enhancing the Academic

Experience: The University is making a concerted effort to form government, corporate, and industry partnerships to advance research in leap-ahead technologies, provide applied research opportunities for students and faculty, and contribute to diversifying Michigan's economy. One recent partnership includes Michigan's 21st Century Job Fund to develop, implement, and commercialize new materials and engineering practices to double the lifespan of Michigan's box beam highway bridges. In addition, projects in automotive, robotics, and energy have been awarded grants and contracts allowing faculty and students to contribute to development and research in these industries.

identify their career paths. The five categories are: Service Expedition, in which students provide service to Lawrence Tech or the community; Leadership Adventure, in which students participate in projects that develop their leadership skills; Arts Journey, in which students are involved in artistic projects; Research Discovery, in which students participate in a research project; and Entrepreneurial Venture, in which students get involved in activi-

■ The Center for Global Leadership and Understanding:

The College of Management established this new center with the goal to develop and encourage students, faculty, and the community to understand the global environment in which we live. The new MBA International focuses on developing students as global leaders and strategic thinkers.

■ New Dean in the College

Provost Maria Vaz addresses the annual High Tea for women graduates, students, faculty, and staff. Alumnae participating in the panel discussion are (L-R) Carolyn Dwyer, BSAr'87, Rosemary Bayer, MBA'03, Laura Slenzak, BSMCS'84, BSEE'85, Karen Mitchell, BSCE'83, BSEE'86, and Laura Clary, BSAr'95.

■ The Quest Program in the College of Arts and Sciences:

This new co-curricular program for majors in the College of Arts and Sciences allows students to choose three projects from five categories to pursue their interests at a deeper level and to help



REPORT TO INVESTORS



U.S. Sen. Carl Levin meets with students during a tour of Lawrence Tech's Center for Innovative Materials Research (CIMR), where government grants are funding research on new materials with both military and high-way construction applications.

of Engineering: In January Devdas Shetty was welcomed as new dean of the College of Engineering. Shetty joins us from the University of Hartford where he held a number of leadership positions as well as the Vernon D. Roosa Chair in manufacturing engineering. Dr. Shetty's vision is to increase the recognition and reputation of the College nationally by strengthening the engineering curriculum with industry-sponsored student projects, to develop additional laboratories for mechatronics and biomedical engineering, and to work with the faculty on adding new programs in energy, product design, and audio technology.

College of Architecture and Design Advances: The Master of Architecture was reaccredited by the National Accreditation Association Board, and the Interior Architecture program was reaccredited by the Council for Interior Design Accreditation – both for six years. The accreditation boards recognized the superior nature of the programs as well as the focus on sustainability. Students continue to receive numerous awards in compe-

titions. Already one of the nation's largest programs, the vision of the College is to increase its national recognition, and Dean Glen LeRoy and the faculty are developing new strategies to attract undergrad and graduate students nationwide.

New and Innovative Degree Offerings: New programs launched this past year at Lawrence Tech reflect agility and a flexible, interdisciplinary approach that prepares students for new economic opportunities.

- Bachelor of Science in Transportation Design (A College of Architecture and Design program, development of which was funded in part by Ford Motor Co.)
- Bachelor of Arts in English and Communication Arts
- Bachelor of Science in Industrial Operations Engineering
- Master of Science in Architectural Engineering (A 5-year combined undergrad/graduate program offered in collaboration between the Colleges of

Engineering and Architecture and Design.)

New and Improved Campus Activities: Members of Lawrence Tech's group of social event planners, Students Planning Activities Monthly, returned from their annual national conference and developed another terrific year of activities. Students participated in a welcome back concert with nationally recognized recording artists. Club sports in volleyball and cricket were added to augment the successful hockey and soccer programs. Lawrence Tech hockey games have made Friday and Saturday nights very special. Our revived Blue Devil mascot, Blue, leads fans in cheering, and adds spirit to campus events. We closed the hockey season with a hard fought game against Detroit Red Wings alumni. Other new programming aims to increase student awareness of diversity and social responsibility.

We continue to strive to develop the University as one of the premier private universities in the country. We want to enhance and improve student opportunities for success by providing learning experiences and opportunities and greater access to the most updated technology. We are committed to our mission of developing leaders through innovative and agile programs embracing theory and practice, and we appreciate your continued support.

Maria J. Vaz

Maria J. Vaz, PhD
Provost

REPORT TO INVESTORS

REPORT OF VICE PRESIDENT FOR UNIVERSITY ADVANCEMENT

In the fall of 2007, the University community completed its "Commitment to Achieve" Strategic Plan that outlines the strategic initiatives of Lawrence Technological University for the next several years.

In broad brush, the earlier Lawrence Tech strategic plans looked inward and addressed fundamental issues and operations. In this new plan, the University increasingly looks outward and calls for playing an expanded role in the economic vitality of the region and state. The University will continue to develop partnerships with educational institutions, government, and industry, all aimed at extending the reach, reputation, and impact of Lawrence Tech.

Past strategic plans brought into focus the importance of



marketing. This plan builds on the increasing public recognition and appreciation of the University's role in the region, state, and the professions it serves. This plan benefits from innovative research that helped

Lawrence Tech identify its most motivating brand positioning, which combines the University's historical values and strengths with its vision and distinguishes the Lawrence Tech brand from competitors. This research sought the views of a wide range of constituents, including current and prospective students, faculty, donors (including employers), parents, and the general public. *Leadership through Theory and Practice* emerged as the strongest position statement for the Lawrence Tech brand. The positioning research and position statement is now being used to create an integrated umbrella strategy to brand and promote the University and each college.

The marketing and public affairs team, working closely with the enrollment man-

Vice President Steve Brown and the University Advancement team have worked closely with many government officials, including Oakland County Executive L. Brooks Patterson (L).



Alumnus A. Alfred Taubman stresses the importance of supporting the arts and education during Lawrence Tech's annual Winterlude donor recognition event at the Detroit Institute of Arts in March.

REPORT TO INVESTORS

Troy Chamber President Michele Hodges and Lawrence Tech Vice President Steve Brown listen to ALDeTERRA team member Jim Lutzke during the Solar Decathlon competition in Washington, D.C., in 2007.



agement office, is actively engaged in refining our image and reputation through the “Leaders in the Making” campaign utilizing radio, selective print, and outdoor advertising

in the greater southeastern Michigan market. In addition, as part of our strategic initiative to grow our traditional student base, both offices are aggressively pursuing opportu-

nities in outstate and out-of-state regions, as we need to “cast a wide net” to attract top students.

In fiscal year 2006, the University completed its major comprehensive campaign, the *Campaign for Lawrence Tech*, which raised \$46 million for new facilities, new programs, and increased services for students and alumni. Needs, however, continue, and as part of the new strategic plan, a new *Proud Heritage, Bold Future* comprehensive capital campaign has been established. A major campaign feasibility study was conducted in spring 2007 among donors and alumni to determine whether Lawrence Tech’s constituents would be supportive of another significant fund-raising campaign and where the funds raised should be applied. The result is a detailed campaign case statement which identifies the following:

Donley Scholars Program seeks minority applicants

The largest endowed scholarship in the history of Lawrence Tech, the Ed and Inez Donley Scholars Program, is part of a \$5 million gift from long-time benefactor and alum Ed Donley, BME’43, and his wife, Inez. Lawrence Tech admissions officials are actively pursuing qualified candidates for the fall 2009 semester, according to Jerry Crist, professor of chemistry who chairs the scholarship committee.

“The funds are approved and waiting,” Crist said. “But the type of student we are seeking is in very high demand. We hope alumni, students, parents, and friends will encourage qualified candidates to go to www.ltu.edu and fill out the online scholarship application.”

This comprehensive scholarship, which will cover tuition, housing, technology fees, wireless laptop, and a book stipend for all four years, is open to the “most promising,” underprivileged minority student entering as a freshman in the College of Engineering.

“Beyond the monetary support, this scholarship is unique in the level of personal support and mentoring it will offer the winning candidate,” Crist said. “Throughout his or her academic career, the student will meet one-on-one with President Lewis Walker and Board of Trustees Chairman Lloyd Reuss, as well as senior members of the selection team.”

Students also would participate in a summer internship/technically focused travel experience that would help them gain an appreciation and understanding of the global marketplace as related to their chosen field of study.

For more information on the Donley Scholars Program, contact Crist at jerry@ltu.edu. ▲DJ



Inez and Ed Donley

I. State-of-the-Art Facilities

The College of Engineering, our legacy program, is currently headquartered in the oldest structure on campus. A planned new, state-of-the-art facility will provide much needed classroom, laboratory, and meeting space and serve as a symbol of Lawrence Tech's leadership in the engineering field.

The new building also will provide laboratories for collaborative efforts between engineering and the College of Arts and Sciences. It will also include lab facilities for applied research projects and emerging technologies.

The original Engineering Building will be renovated and continue to provide space for the College of Engineer-

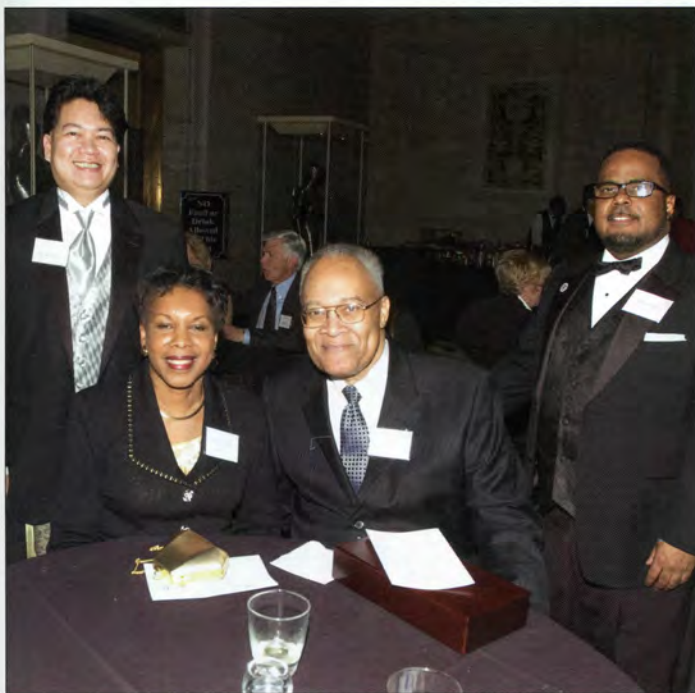
ing while offering additional facilities for students in interdisciplinary programs with the College of Architecture and Design.

II. Robust Endowment

Endowed scholarships will help ensure that no qualified student is denied admission for financial reasons and will help attract and retain the best and brightest academic talent.

The lifeblood of a private institution like Lawrence Tech is its endowment. Our commitment to providing an exceptional educational experience for students is tied directly to our ability to grow this endowment.

As the underpinning of our financial future, endowment support must be a prime im-



Dino Hernandez, assistant vice president for major gifts and campaign director, and Howard Davis, director of corporate and foundation relations, visit with Evelyn Tucker, BSMedTech '71 (DIT), and Paul Tucker, BSCvE '71 (DIT), who were inducted into the 1932 Society at this year's Winterlude. Mr. and Mrs. Tucker recently funded a new \$150,000 endowed scholarship at Lawrence Tech.

Key members of University Advancement team receive promotions

Vice President Stephen Brown is able to set high goals for the Office of University Advancement because he knows he can rely on the hard work and dedication of a strong team of experienced professionals.

Brown recently announced several promotions that recognize the achievements and future potential of several key players in the offices of University Advancement and Marketing and Public Affairs.

Mark Brucki, formerly director of technology partnerships, has been promoted to executive director of economic development and government relations. In this role, he continues to work with faculty to take advantage of grant opportunities, strengthen the University's ties to the business community, and expand outreach efforts with commercial enterprises and governments.

Howard Davis, director of corporate and foundation relations, will now report to Brucki as Lawrence Tech seeks to further engage philanthropic organizations with applied research and other program initiatives.

Robin Leclerc has been promoted from manager of special events to director of university special events and conference services. Leclerc now manages conference services with the support of Diana Richard, who has moved from the Office of Student Affairs to join the University Advancement team.

In Marketing and Public Affairs, Anne Adamus, who works closely with the University Advancement team, has been promoted from manager of university communications and academic editor to director.

Sofia Lulgjuraj, who joined the department as a graphic designer, has been elevated to art director.

Last year Dennis Howie was named associate vice president for advancement and chief development officer, while Dino Hernandez moved up to assistant vice president for major gifts and campaign director. ▲EP



Mark Brucki



Robin Leclerc



Anne Adamus

Elliott joins board of trustees

John E. Elliott, II, BSBA'80, has been named to Lawrence Technological University's board of trustees.

Elliott is chairman of AMI Holdings, Inc., and a major shareholder in Fidler Doubleday, Inc., Neogenomics, Inc., and Arcadia Resources, Inc., which trades on the American Stock Exchange. He has been involved in the healthcare industry since 1978.



In 1983, Elliott founded Allied Medical, Inc., which became a national supplier of wheelchairs and patient products for the homecare market. In 2004, he led a group of investors that acquired Arcadia Services, Inc., a national provider of staffing professionals and homecare products that was subsequently taken public as Arcadia Resources.

As part of the fund-raising efforts for redesigning Lawrence Tech's academic quadrangle, he and his wife funded the John E. Elliott, II, and Patricia Jane Elliott University Fountain outside the main entrance of the Taubman Student Services Center.

Elliott received Lawrence Tech's Alumni Achievement Award in 2005. In addition to his degree from Lawrence Tech, he has completed the Executive Studies Program at Harvard Business School.

a new strategic plan, a new positioning, new programs, new branding, new capital campaign initiatives, and a newer, more vibrant campus.

With your support, Lawrence Tech is poised to be the leading private university in Michigan. Your participation

is vital as we build upon a rich 75-year history of theory and practice.

Stephen E. Brown
Vice President, University Advancement

Southfield Chrysler Jeep provides lease car to president

Thanks to a lease car gift from Southfield Chrysler Jeep, Lawrence Tech President Lewis N. Walker can attend to University business in a Chrysler 300C full-size, four-door sedan.

"We like to show our support for the community by donating a car to Lawrence Tech and to the City of Southfield," said General Manager Paul Steel. "When you think of Southfield, Lawrence Tech is an important part of it."

"The Chrysler 300 is a top seller. It's our flagship car with state-of-the-art technology."

According to Steel, Lawrence Tech students, faculty, staff, and alumni are eligible for the "friends and family" program and can get a special discount at Southfield Chrysler Jeep. Furthermore, for new college graduates, there is a \$400 rebate.

The Southfield Chrysler Jeep superstore, located on the south side of Tel-Twelve Mall, is the nation's top Chrysler Jeep dealership in retail sales. Also part of the dealership group are Telegraph Chrysler Jeep in Taylor, Hummer of Novi, and Hummer of Detroit.



perative of the Proud Heritage, Bold Future campaign. We owe it to today's – and tomorrow's – students.

Endowment monies are critical to every facet of the University. They support our goal to become a top partner for applied research by the year 2012 and to develop centers of excellence based on noteworthy scholarship.

III. Advanced Academics

Each of Lawrence Tech's four colleges is focused on offering students the deepest, broadest, most technologically advanced academic programs in the world, while providing opportunities for hands-on learning in real-life situations.

With 93 percent of our students finding employment within a month of graduating,

our reputation is strong, but we must continue to be at the forefront of innovative education.

As we celebrate the accomplishments of the last 75 years, we must position ourselves for progress in the next 75 years. Our vision is to be a pre-eminent, private university producing leaders with an entrepreneurial spirit and a global view. *The Proud Heritage, Bold Future* comprehensive capital campaign will be the foundation for helping us achieve this vision.

These are exciting times at Lawrence Technological University; we have a new vision,

REPORT TO INVESTORS

REPORT OF VICE PRESIDENT FOR FINANCE AND ADMINISTRATION



Linda L. Height

The financial condition of Lawrence Technological University continues to be sound. Despite some extraordinary expenses in 2007 to strengthen computer network security and system upgrades, Lawrence Tech exceeded budget expectations for the fifth year in a row. Because of a strong enrollment, we were able to fund almost \$8 million in scholarships for undergraduate and graduate students. In addition, we have reduced the University's debt by approximately \$3 million.

Lawrence Tech implemented an Emergency Communication System that was put into operation in the fall semester. This system allows us to communicate with all students, faculty, staff, and parents who register their email address and their cell phone. If an emergency situation should occur, we have the ability to broadcast a message to all parties within a very short period of time.

The University's Campus Master Plan was completed

this year. This five-year plan incorporates the Strategic Plan initiatives as well as the president's vision for leadership.

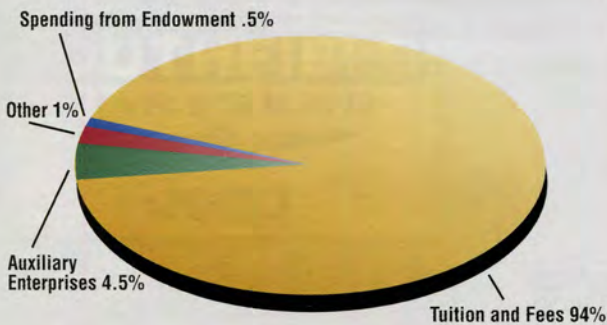
The plan was developed through a collaborative process that included input from the entire University community, including faculty, students, staff, board members, and community leaders.

Linda L. Height
Interim Vice President
Finance and Administration

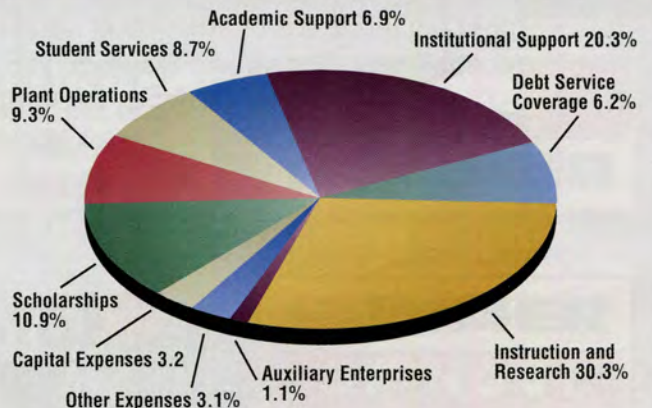
Grasses, "champion" trees and other plantings have helped transform the appearance of Lawrence Tech's campus in the past few years.



Revenue: \$61,973,805



Expenses: \$61,415,120



The University's unrestricted assets increased by \$558,685, based on unaudited results from the fiscal year ending June 30, 2008.

Four Reasons To Put Off Creating Your Will

Looking For A Good Excuse? Here Are Four.



Estate Is Too Small.

This is a popular reason for not preparing a *Last Will & Testament*. But be careful! It's easy to forget how quickly the value of a home can escalate.

Combine this with even minimal inflation, and what was once a modest estate may have enjoyed significant growth.



A Will Is Too Costly.

Sure...it will cost something to have a qualified professional prepare your will; but too costly? Consider what an investment of \$300 or \$400 today

will save when it comes to estate taxes and probate costs...not to mention the time and stress you'll save family and friends.



A Distaste For Legal Documents.

This reason is easy to understand! After all, who wants to go to school just to be able to understand what is a statement of your will in the first

place? But it's just as easily dealt with. Your attorney should happily answer questions and alleviate any misgivings.



Too Busy Living.

The truth is, when you're busy dealing with the realities of living each day – with family and work, friends and play – taking time to think about

dying is easy to put off. But your Will is your lasting voice – and your attorney will be happy to answer any questions about the creation of a valid will.

Creating a will also provides an opportunity to ensure that organizations you care about, such as Lawrence Tech, are appropriately remembered through a charitable bequest. And notifying those organizations of your intent allows them to recognize you now for your significant commitment. For sample language you can use to include Lawrence Tech in your will, please contact the Office of University Advancement.





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THE BACK PAGE

Alumnus fulfills a longstanding goal to aid new generations of students

The Office of Admissions at Lawrence Technological University has been named in honor of the late Natale “Nat” Bifano, BAeE’37, a man whose life was filled with success, including fulfillment of a personal goal to leave his alma mater a substantial legacy.

Following Bifano’s death in December 2006, the University received a gift of nearly \$1 million. This October Lawrence Tech faculty, staff, and students gathered in the lobby of the Office of Admissions in the A. Alfred Taubman Student Services Center to join brother Albert Bifano and sister Carmela Bifano Smith in honoring their older brother’s memory.

Like many early Lawrence Tech graduates, Bifano was an immigrant. With his mother, brother, and sister, he arrived in the United States in 1921 from the Calabria region of Italy to join his father who had come to Detroit to work in the auto industry. Bifano graduated from Detroit’s Northwestern High School and with his brother, Michael, BAeE’35, was among Lawrence Tech’s first students. He made his first tuition payment with cash he’d earned by carrying heavy baskets of fruit and vegetables for a dollar per day.

During World War II, Bifano used his engineering skills in support of the production of bombers and then the first nuclear bomb as a member of the Manhattan Project. After the war, he worked on aircraft-borne rockets, the original “Flying Wing” aircraft, and GE’s nuclear-powered bomber. He collaborated with some of the greatest minds of the 20th century – Enrico Fermi, Niels Bohr, and Robert Oppenheimer among them.

After moving to Westinghouse in Pittsburgh, Bifano received a patent for the design of an artificial human heart. He retired in 1977. His wife of 63 years, Ursula, passed away in 2002.

As his daughter Carolyn Bifano observed, “My father



Natale Bifano

was gifted with a mind and spirit that was both analytical and highly creative. I am so grateful to have been a child of my two wonderful parents. They demonstrated their love to me every day and showed their commitment to the future with this generous gift to the University.”

At the dedication ceremony, President Lewis N. Walker praised Bifano for the admirable commitment he made to his alma mater and his ability to make good on that promise.

Bifano’s sister said at the dedication ceremony that her brother succeeded in life despite growing up in humble circumstances in a new country during the Great Depression.

“Even though we might have been classified as poor Italian immigrants, we were a family rich in love, hopes, and dreams. Within this loving household, Nat and our brother Mike were the oldest of 10 children and by default the role models for the rest of us,” Smith said. “As fate would have it, they were both extremely industrious and very dedicated to their studies.”

She said her parents placed tremendous emphasis on the value of a good education, and her brother always gave Lawrence Tech credit for providing him with indispensable skills and a direction on which to focus his efforts. He was always generous to the ones he loved, and so it was fitting that he set a personal goal to leave a substantial gift to his beloved alma mater.

“While he was a brilliant and accomplished aerospace engineer with many contributions to our society throughout his prolific career, it is my sincere hope that his real legacy be measured

more by what he gave as a son, a brother, a husband, a father, and a philanthropist,” Smith said. “He truly cared about those nearest to his heart, and his contribution to Lawrence Tech reflects in a very real and tangible way the depth and sincerity of his devotion to those that he loved.” ▲EP



Albert Bifano, Carmela Bifano Smith and President Lewis N. Walker pause in front of the newly named Natale Bifano Office of Admissions at Lawrence Tech.