

# Lawrence Tech<sup>®</sup>

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE | Fall/Winter 2009



**Practicing what we teach: Campus improvements reflect commitment to sustainability and environmental stewardship**

University mourns President Emeritus Charles M. Chambers | Alumni Association charts new course

Adding more entrepreneurship to engineering | Retooling for new careers

Alumni News & Notes | Report to Investors, and more!



# Lawrence Tech<sup>®</sup>

LAWRENCE TECHNOLOGICAL UNIVERSITY MAGAZINE

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**CORRECTION:** Contrary to the impression left by a misplaced asterisk in the Donor Honor Roll in the spring/summer issue, Donald and Patricia McClure are not deceased.

**On the cover:** The John E. Elliott II and Patricia J. Elliott University Fountain and the Ockham's Wedge sculpture in the background are two landmarks that have been added as part of the dramatic campus transformation in recent years. The student-friendly quadrangle also incorporates many features and best practices of sustainability and low-impact development that are taught in Lawrence Tech's classrooms.

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# Practicing *what we teach*

*The Kado Amphitheater on the west side of the Taubman Center is a convenient place for students to meet or work. It is a gift of Joe Kado, BSEE'75, and his wife, Beverly.*

**Recent improvements  
have made  
Lawrence Tech's  
campus much more  
student-friendly  
while also applying  
classroom principles  
of sustainability  
and environmental  
stewardship to the  
real world.**

**L**awrence Tech alumni visiting campus for the first time in several years are expressing pleasant surprise when they retrace the steps they took during their college days. Many have described the new, lushly landscaped quadrangle as beautiful. But in this case beauty is not just skin deep – the physical changes have improved student life and made sustainability education an integral part of the University's identity and mission.

University planners went beyond the need for more classroom and office space when two new buildings were added around the quad's perimeter in recent years. The new construction and landscaping reflect some of the best practices taught to architecture and engineering students at Lawrence Tech. The result is a marriage of form and function that reflects the University's goal to inculcate a new generation of architects and engineers with the best practices of sustainability and environmental responsibility.

"We really do try to practice what we teach," said Joseph Veryser, BSAr'76, the university architect who is also associate dean of the College of Architecture and Design.

Returning alumni will have no trouble remembering the Engineering Building and the Science Building, but the Buell Management Building and the Architecture Building have been transformed by the additions of the University Technology and Learning Center (UTLC) and the A. Alfred Taubman Student Services Center.

What used to be a "desert" of sparse grass – virtually unused open space – has been transformed into a manicured quad built around an ellipse punctuated with lush grasses, "champion" trees, lighting, and polished marble benches. The Elliott Fountain with its split-rock sculpture emitting mist provides a focal point at



one end of the Taubman Center, while the Kado Amphitheater is tucked into the small hill at the other end. "The grasses aren't just for aesthetics. They play an integral role in cleaning up the storm water runoff as part of our sustainability efforts," Veryser said.

Improving the landscaping around the University's main buildings is an ongoing process, thanks to continued support from alumni and friends of the University. The Alexander and Patricia Hossack Outdoor Dining Plaza and Terrace Garden outside the Café Lawrence dining commons was completed last year, and the "Ockham's Wedge" sculpture, a gift from A. Alfred Taubman, in the center of the quad was unveiled in the spring.

Even bigger changes are out of sight. There's a 10,000-square-foot green roof on the Taubman Center that reduces runoff and provides better insulation. A 12,000-gallon cistern provides gray water for toilets in the building, and a bioswale circling one end of the quad absorbs most of the surface water through a series of stepped and landscaped weirs. Eighty-eight geothermal wells that extend nearly 300 feet below the quad were installed to provide heating and cooling for the Taubman Center. This fall more than 30 additional wells will be installed to increase climate control capability in the building.

"The added wells are of a newer concentric pipe design patented by Hardin Geotechnologies, the firm that installed the original wells and now the additional wells. Once again we are leading the way with the latest in technology," Veryser said.

## Building a brighter future

The transformation of the quad got started when President Lewis N. Walker, his predecessor Charles Chambers, and other



*More than 60 percent of rain water is absorbed by the plants on the Taubman Center's green roof, and the remaining runoff is used as non-potable water in the building. Excess water is filtered through the quadrangle's bioswale before entering a Rouge River tributary cleaner than when it fell from the sky.*

**Improving the landscaping around the University's main buildings is an ongoing process, thanks to continued support from alumni and friends of the University.**

campus leaders confronted the need for more teaching facilities and offices for faculty and staff as curricula expanded to meet the aspirations of a growing student body. But as the planning process progressed, these leaders found opportunities to make changes that reflected Lawrence Tech's mission as an educational institution.

When Veryser became campus architect in 1998, preliminary plans for the UTLC were already on the drawing board and construction of a student services center was the top priority in the recently updated campus master plan.

The immediate goal for the University's fund-raising efforts for what became the UTLC was a practical one. The Architecture Building, opened in 1962, had become too small for expanding programs in the College of Architecture and Design. Much more space was needed for dedicated studios for architecture students.

The College of Engineering also needed additional classrooms, the University's growing audiovisual activities and media communications programs needed production studios, and the University needed better facilities for public events and meetings.

Plans for an addition to the Architecture Building were extended all the way to the Engineering Building. The physical connection enhanced cooperation between the two colleges, and the third-floor bridge to the Engineering Building now stands as a symbol of the increased interdisciplinary activity on the Lawrence Tech campus.

The UTLC designed by the late Charles Gwathmey also became the University's front door. The distinctive bridge draws the attention of drivers turning into the campus from Ten Mile Road, and the frequent public events in the UTLC gallery and its meeting rooms draw thousands of people to the University every year.

## Coordinating student services

Construction of the Taubman Center was in response to the growth of student services during the 1980s and '90s. The Office of Admissions had outgrown its space on the top floor of the Buell Building, while the Office of the Registrar – the next stop for incoming students – was shoehorned into offices across the quad in the Engineering Building. The Office of the Dean of Students was on the lower level of the Buell Building. Most of these offices were carved out of former classrooms.

The Computer Help Desk, which had greatly increased in importance after the University issued laptop computers to all undergraduates in 2001, was at the other end of the quad in the new UTLC. Even after North Housing opened in 2002, the residential housing administrative offices remained in South Housing, far removed from other student services.



*“Ockham’s Wedge,” a sculpture by Beverly Pepper, was unveiled April 22 and has quickly become a campus landmark. It was donated by A. Alfred Taubman, who attended the University in the 1940s and is among Lawrence Tech’s most generous contributors.*



A coalition of staff from all departments serving students developed the “U Serving You” concept that would bring all student services together in one building at the center of the campus. That “one stop shop” approach has made life much easier for students and has greatly improved coordination between administrators and staff who provide student services.

The Admissions, Registrar, Financial Aid, and student accounting offices are now together on the main floor of the Taubman Center. The DTE Energy One-Stop Center desk makes it easy for students to handle their business with all those offices. Housing, Student Activities, International Programs, and Career Services have been brought together with the Office of the Dean of Students on the top floor. The Academic Achievement Center and the Computer Help Desk are also in the building, along with the new office for leadership programs.

“The goal was to create a more integrated approach that puts student services right in the middle of the University,” said Lisa Kujawa, assistant provost for enrollment management. “We went beyond the task of relocating existing services to create a services delivery system that is even better than before.”

Kujawa and other University leaders knew they had been successful when usage of student services increased by 50 percent in the first few months after the One-Stop Center desk opened.

During the first two years after the Taubman Center opened in 2006, more than 20 colleges – including two from Texas – made benchmarking visits to campus.

### Helping the environment

The decision to place the new Taubman Student Services Center at the center of the campus was not without its problems. For nearly two years virtually everyone was inconvenienced by the construction that seemed to block paths to almost everywhere else on campus. But what was originally viewed as a major headache turned out to be a tremendous opportunity, according to Veryser.

“The master plan called for landscaping the quad sometime in the future, but we realized it made more sense to make those changes when it was already torn up, rather than put it back the way it used to be,” Veryser said.

Lawrence Tech also faced new and higher standards adopted by the city of Southfield for storm water management. The “do no harm” approach was no longer good enough, and improvements would have to be made before any additional construction

could proceed. Lawrence Tech fully embraced the concept, and the campus is now a destination for planners and developers throughout the region who are interested in seeing environmental practices in action.

Sustainability and environmental stewardship became guiding principles for designing both the quad and the Taubman Center, where the green roof and gray-water cistern were added. Now more than 60 percent of rain water is absorbed by the plants on the roof. The remaining runoff, which has been cleaned up by the rooftop plants, is then used to supply the building with non-potable water. The green roof provides more effective insulation than traditional roofs and is expected to last twice as long, about 40 years.

Surface water from the quad now passes through the bioswale, a series of stepped weirs, which are tile fields composed of materials made of volcanic ash. About 60 percent of the runoff is retained by slowing down the water flow, and nutrients and pollutants are filtered out before the remaining runoff reaches the piped drainage system discharging into a tributary of the Rouge River. The improvements have been documented in several research projects. (See page 4.)

### Creating a sense of place

The quadrangle improvements provided the opportunity to upgrade pedestrian circulation, add focal points, and create a green, leafy perimeter to help unify the campus. Interspersed in the circular pattern are black granite benches carved with inspirational quotes and bollards with blue LED lights powered by photovoltaic panels located atop the Engineering Building.

Landscape architect Mark Hieber of Harley Ellis Devereaux said the project provided the opportunity to create a variety of interesting settings for students to gather and exchange ideas. In addition to making it more pleasant to get from one building to another, the quad has become an attraction in its own right.

“The center of the campus has become a place of interest and inspiration. It’s a jewel-like crown set in a lush environment,” Hieber said.

### Teaching by example

According to Harley Ellis Devereaux architect Arthur Smith, BSAr’78, BA’81, lead designer of the Taubman Center, the environmental focus for the quad has been mirrored in the building. “Lawrence Tech officials realized they had an opportunity to create a building that went beyond a rudimentary enclosure and practical needs to become a learning and research ‘lab’ reflecting the University’s mission,” he said.

The Taubman Center has earned the prestigious Silver certification for meeting the Leadership in Energy and Environmental Design (LEED) specifications of the U.S. Green Building Council. The design addressed the criteria of sustainable site development and construction, water and energy efficiency, recycled materials selection, and indoor environmental quality. Oriented to



promote natural lighting and take advantage of site elements, the building has an expanse of low-e glass designed to reduce heat loss.

A system of rigid polyethylene piping, pumps, heat pumps, and fans connected to the geothermal wells heat and cool the Taubman Center, which has no boiler, furnace, or even a gas meter. The heating, ventilating and air conditioning (HVAC) systems contain no CFC-based refrigerants, HCFCs, or halons. Lighting is controlled by sensors and astronomically synchronized timers that make adjustments three times a day.

The building's many sustainable design components create a perpetual field trip, a visible "living laboratory" that provides students an up-close view of real-world applications of sustainable design and engineering. Many HVAC controls and mechanisms are visible for study by students. The concrete flooring tiles throughout the building are elevated 18 inches, making all wiring and piping easily accessible by lifting panels of the modular floor.

The building was constructed in such a way that students can study and conduct research on the electrical and mechanical systems. They can observe through this scientific method the tangible results of sustainable design, according to Veryser.

"If we want our students and communities to be successful advocates of sustainable design, then we need to not only educate but also lead by example," Veryser said. "Our University and colleges are all strong advocates of sustainability. Here, we not only teach it but make it visible and known to the students and community."

Sustainability and environmental stewardship are no longer just words in a textbook, but principles that Lawrence Tech students experience daily as they walk around the revitalized campus. ▲EP



*A glorious display of fireworks was the finale of the dedication ceremony for the environmentally friendly academic quadrangle in September 2006. The event also marked the conclusion of Lawrence Tech's capital campaign launched in 2001 that raised \$46.6 million, far exceeding the initial \$20 million goal.*

## Lawrence Tech campus becomes an outdoor research lab

Associate Professor Don Carpenter of the Department of Civil Engineering is a recognized advocate of sound stormwater management who puts into practice what he teaches right where he works. He has used the Lawrence Tech campus for several low-impact development (LID) research projects involving the management of stormwater runoff.

Carpenter has collected extensive data on the Taubman Center's green roof and compared its performance with the black asphalt roof of the Science Building power house and the rock-ballasted roof of the bridge connecting the Science Building with the Taubman Center.

During a year with less than average rainfall, the green roof exceeded expectations by absorbing more than 70 percent of rainfall. On hot days in August, the surface temperature on the green roof was 50 degrees lower than on the asphalt roof of the nearby power house.

Carpenter also studied the performance of two rain gardens he and students installed near the UTLC. When precipitation was less than half an inch – which happens 90 percent of the time when it rains in the Detroit area – the rain gardens had no runoff at all. When there was runoff, the rain gardens filtered out most of the nitrogen, phosphorous, and suspended solids that would have drained into a nearby Rouge River tributary.

This summer Carpenter started a new research project by planting 1.5 acres with a wildflower mix to create a riparian buffer zone along a small Rouge River tributary northwest of the Architecture Building. The land planted with a mixture of indigenous plants is expected to retain more runoff than the grass lawn that was there before, while also acting as a filter for pollutants. The project also reduced Lawrence Tech's carbon footprint by eliminating the need for mowing and fertilizing the lawn that was replaced.

A second riparian buffer zone is scheduled to be planted behind South Housing this fall as part of the riparian grow zone demonstration project funded by a green infrastructure mini-grant from the Alliance of Rouge Communities.

*Lawrence Tech students Andrew Card, Matthew McClerren, and Preethi Kaluvakolanu joined Campus Facilities staff members in June to plant a riparian buffer zone of indigenous plants near a small Rouge River tributary northwest of the Architecture Building. At right, Associate Professor Don Carpenter shows off the results two months later.*





# Campus mourns President Emeritus *Charles M. Chambers*

Lawrence Tech's  
fifth president  
left a legacy of  
accomplishment that  
transformed the  
University.



*At the 2003 Commencement, Chambers led applause as graduates honored the love and sacrifice of family and friends during the pursuit of their degrees.*

Charles M. Chambers, who presided over the largest facility expansion and most extensive campus improvements in Lawrence Tech's history, was more proud of his efforts to engage alumni and work toward building a supportive and embracing campus community.

"Bringing alumni 'home' metaphorically and physically was most important," Chambers said in a 2007 interview some 17 months after his presidency concluded.

Citing a growing student life, expanded campus housing, labs, degree programs, and faculty that embrace a culture of academic excellence, Chambers said, "With support and involvement of people on and outside the campus, I think we now have that community sense. We have all the ingredients of a campus community that celebrates students.... I don't think Lawrence Tech is the 'best kept secret' anymore, but we can never let up on marketing and building the brand.... The bar is constantly being raised."

Chambers' life and legacy were remembered June 18 at a campus memorial service attended by some 300 alumni, faculty, staff, business and government leaders, and other friends of the University.

Chambers, 67, who served from 1993 to 2006 as Lawrence Tech's fifth president, died May 20 near his home in Alexandria, Va., of complications from a brain tumor.

Nearly a dozen of Chambers' former colleagues, staff, and friends, including Southfield Mayor Brenda Lawrence and Alumni Association President Michael Zulinski, BSIM'74, eulogized Chambers during the service led by Lawrence Tech President Lewis N. Walker, who served as provost and then executive vice president during Chambers' tenure.

Chambers' wife, Barbara, traveled from Virginia to attend, joined by two of their four children – son, Carleton, and daughter, Cathy, her husband, Patrick, and their son, Andrew.

"University presidents wear many hats – they're administrators, policymakers, spokespeople, advocates, and fund raisers. They must comfort, lead, and inspire. Charles did all that and more," Walker said, introducing a video that captured some of Chambers'

*'University presidents wear many hats – they're administrators, policymakers, spokespeople, advocates, and fund raisers.'*

successes, character, and humor.

Walker also related the story of Christopher Wren, architect of London's historic, domed St. Paul's Cathedral. "The words inscribed on Wren's tomb seem particularly appropriate to a university president such as Charles. Translated from Latin, they are, 'If you seek his monument, look about you.' As you walk this campus this morning, it is impossible not to encounter



Charles' monument – facilities, buildings, and programs that came about through his inspiration and leadership.” The Chambers era was one of remarkable progress at Lawrence Tech.”

As he retired, the University successfully concluded a \$46 million capital campaign that had twice been expanded beyond its original goal. During his presidency, Lawrence Tech became Michigan's first wireless laptop campus. The \$20 million University Technology and Learning Center, \$12 million Student Housing Center-North, \$14.9 million A. Alfred Taubman Student Services Center, and \$3.2 million Center for Innovative Materials Research transformed the campus. Other initiatives included the extensive redevelopment of the campus quadrangle incorporating numerous “green” environmental features. Millions of dollars more were invested in upgrading older facilities throughout the 102-acre campus.

Student scholarships, community outreach, and the growth and expansion of applied research and academic offerings also accelerated, including the launch of Lawrence Tech's first doctoral programs and the establishment of learning centers and higher education partnerships in Canada, Germany, Mexico, Asia, and elsewhere in Michigan. The number of master's programs at the University jumped from three to 23.



*Chambers made alumni outreach a priority, launching annual visits with alumni throughout Michigan and nationally coast to coast. At the 1994 alumni reunion, he and his wife, Barbara, met several early graduates. Lawrence Tech's alumni ranks swelled by over 10,000 graduates during his presidency, reaching over 30,000.*

For the 10 years prior to joining Lawrence Tech, Chambers was president of the American Foundation for Biological Sciences, a consortium of over 50 scientific laboratories, museums, and societies headquartered in Washington, D.C. Earlier, he served on the faculties of Harvard University, the University of Alabama, and George Washington University, where he was also dean of graduate evening programs.

An expert in accreditation, he was a past president of the American Association of University Administrators, and led numerous accrediting teams visiting university campuses for the North Central Association. He also served as a consultant to the Congress and to government agencies.

As a young aerospace engineer with NASA in the 1960s, he participated in the Apollo program that landed men on the moon. Chambers held three degrees, including the PhD in physics from the University of Alabama and earned a law degree, with honors, from George Washington University.

In 1992 he was elected a fellow of the American Association for the Advancement of Science, and in 2006, a fellow of the Engineering Society of Detroit (ESD). In recognition of his accomplishments and service to higher education and the University, he was awarded a doctor of science degree, *honoris causa*, from Lawrence Tech. In 2007 he was recognized as a life member of the Detroit Economic Club (DEC).

A founding director of Automation Alley, he also served as a director of ESD, DEC, the Detroit Area Council of the Boy Scouts of America, the WIRED (Workforce Investment for Regional Economic Development) advisory board of the Detroit Regional Chamber, the Detroit Renaissance Steering Committee, the Oakland County Workforce Development Board, and the Education Foundation of the Society of Manufacturing Engineers, where he chaired the nominating committee. He was a member of the Oakland County Business Roundtable.

Following his presidency at Lawrence Tech, Chambers served as the University's first chancellor, from February 1 to July 1, 2006, when he was named president emeritus.



*As prelude to new building construction, the main campus road was relocated in 1998. Commemorating the opening, Chambers, then-Southfield Mayor Donald Fracassi, and board member Ben Maibach, Jr., wield hefty scissors.*



*Following his presidency at Lawrence Tech, Chambers served as the University's first chancellor, from February 1 to July 1, 2006, when he was named president emeritus.*

Most recently, he was co-chair of the Coalition Fueling Michigan's Future.

In her eulogy, Provost Maria Vaz described Chambers as being very down to earth. "He would roll up his sleeves and help without thinking about his position. I remember the first time I was so impressed with him. We had to send a report to the Higher Learning Commission, and were against a deadline.

"When he saw that I was trying to finish the report and put it together, he got the spiral binding machine and helped me bind the reports, working into the evening. Little things like that showed his generous nature. I also remember how Dr. Chambers consoled me and helped me to cope when my father died in Portugal. Before I left for Lisbon, he came to my office and talked about his experience when his own father died. I still remember how he helped me; I did not feel alone."

Bruce Annett, executive director of marketing and public affairs, recounted crisscrossing the country over seven years with Chambers on alumni visits, and recalled the first time he interviewed the then-new president in 1993.

"He told a story about how, when he was perhaps six years old, he took off from home with his brother, who was about four. They were finally found a mile or so away, alongside a busy highway on their way to the house of family friends. Acknowledging that his parents must have been frantic, he nodded, laughed, and said, 'Well, I knew where I wanted to go and I knew how to get there.'"

"Perhaps," Annett said, "those are the words that best describe President Chambers and the progress he made at Lawrence Tech – he knew where he wanted to go and he knew how to get there. All of us who knew Charles Chambers are better off for it and for his influence on our lives and the continued progress of this great university."

The family has designated that memorial gifts may be made to the Charles M. Chambers Endowed Scholarship Fund, Lawrence Technological University, 21000 West Ten Mile Road, Southfield, MI 48075-1058, or online to giving.ltu.edu. ▲BA



## The Dynamic Chambers Presidency 1993–2006

- In 1993 Lawrence Tech had 25 degree programs and in 2006 more than 60.
- Graduate degree programs grew in number from three to 23.
- The first three doctoral programs were launched in 2004–05.
- Lawrence Tech had seven major buildings in 1993 and 11 in 2006. The amount of classroom, laboratory, and studio space nearly doubled.
- The capacity of on-campus student housing doubled to more than 500.
- Lawrence Tech was among the first technological universities to launch a laptop computer program and became Michigan's first wireless laptop campus.
- The University was named among Intel's "Top 50 unwired" campuses in 2005.
- Lawrence Tech was named among *U.S. News and World Reports* "America's Best College Values" in 2003–04. It has been named among "America's Best Colleges and Universities" numerous times and every year since.
- Over \$46 million was raised – the most successful fund-raising campaign to that time in Lawrence Tech's history.
- The number of endowed scholarships more than doubled.
- Lawrence Tech students and faculty won numerous awards for academic achievement and in intercollegiate competition.
- Government leaders hailed Lawrence Tech as "Michigan's pre-eminent private research university."
- Applied research projects in new materials and emerging energy received state, national, and international acclaim and attracted millions of dollars of support, including Lawrence Tech's first government grants.
- Lawrence Tech received top awards from the Council for Advancement and Support of Education (CASE) for fund-raising improvement and for innovative advertising.
- Lawrence Tech was a founding member of Automation Alley and the Great Lakes Interchange SmartZone, both of which aim to serve and expand the area's role as a global center of technology and research.

*Chambers shared news of Lawrence Tech's progress while appearing with popular WJR morning host Paul W. Smith during a live broadcast from the campus for the University's 70th anniversary celebration in 2002.*





# Alumni Association charts a new course

*The Alumni Association board approved new bylaws at its August meeting attended by (L-R) Michael Leese, Mike Zulinski, Jim Ryan, Frank Marcum, Hurst Wulf, Tom Kakkavas, Kim Lapinski, Roger Avie, Laura Clary, and Ron Muccioli.*

*The Lawrence Tech Alumni Association is making changes to better serve its members and enhance its longstanding support of the University and students.*

Change is the order of the day for the Lawrence Tech Alumni Association. As the Internet and the global economy change the ways its members interact with each other both personally and professionally, the Alumni Association board is keeping pace. President Michael Zulinski, BSIM'74, believes the best way to do that is to take a cue from the University's vision of "producing leaders with an entrepreneurial spirit and a global view."

That approach is leading to several initiatives for the venerable organization founded in the 1930s and formally incorporated in 1956.

"We are excited by the new directions that the University is taking, and we need to respond by keeping our association relevant and dynamic," he said. "We have a strong tradition of service and philanthropy that we want to make even stronger through effective outreach and communication."

A comprehensive review of the organization's direction got started when the board of directors hired a consultant from Villanova University to work with a new strategic planning committee comprised of board members who represented all points of view. They came up with a new mission statement:

"The Lawrence Tech Alumni Association sustains a lifelong bond with alumni by promoting the University's commitment to



innovate, transform, and lead through technical achievement, entrepreneurship, and professional excellence.”

The committee tackled the task of rewriting the bylaws that hadn't been changed much for more than half a century.

Enacting new bylaws in August was a major accomplishment, but that was just the start. The strategic planning committee found that the real challenge is to identify and implement ways to get more alumni connected with each other and with the University. Many can benefit from increased interaction with fellow alumni and the University community, while the University stands to gain from increased alumni participation.

Zulinski said the Alumni Association is embarking on a bold agenda to reach out to alumni. Better networking can help alumni advance their careers and perhaps develop new products or start a new company. Nearly everyone enjoys getting involved with fellow alumni and current students, and some alumni have also found that re-establishing their connection with the University has helped them professionally.

### Building on a strong foundation

The underlying strength of the Alumni Association comes from the innumerable success stories that its members have written for themselves since graduation. They have much more to share with each other than just memories of college days.

Lawrence Tech alumni are taking leadership roles in business throughout the country and world, and Zulinski believes that they can help each other in many ways. Alumni with expertise in management may have insights on how to turn intellectual property developed by another graduate into a commercial product. Or they may have contacts that can help a friend break into a new market or even build business relationships in a new country.

**'We have a strong tradition of service and philanthropy that we want to make even stronger through effective outreach and communication.'**

“Our alumni have achieved many incredible accomplishments and we have much to be proud of as graduates of Lawrence Tech,” Zulinski said.

He believes that the best way to reinforce the pride that Lawrence Tech alumni feel

is to encourage them to return to campus – something that large numbers of alumni haven't done since graduation. “We're finding that once they see the pace of change that is taking place, they become much more enthusiastic and eager to get involved again,” he said.

Zulinski continues to be amazed by the projects developed by Lawrence Tech students, and he is confident other alumni will enjoy seeing more of what students are doing. Some will want to help out by lending their own expertise to student projects.

Students would also benefit from learning more about what alumni have accomplished. The alumni board is considering the creation of a Hall of Pride that could display copyrights and patents earned by alums and disseminate information about companies they have founded.

### Expanding the Association's scope

The Alumni Association has been an integral part of the Lawrence Tech community ever since it was founded in 1933 shortly after the first graduates received diplomas. The association has remained independent of the University with a board comprised entirely of alumni, but it also has benefited from University staff support. Since 2007, Mary Randazzo has been the manager of alumni relations and alumni giving.

The Alumni Association has always put a premium on providing support for the students who will become future members. It has been generous with scholarships and has recognized outstanding academic achievement.



*The Alumni Association supports students and recognizes their achievements in many ways, including the annual presentation of the Alumni Association Edward Donley Distinguished Graduates Award to two outstanding seniors. In May, Lawrence Tech President Lewis N. Walker and Alumni Association President Michael Zulinski, BSIM'74, (R) presented this year's awards to Lauren Meganck, BSCvE'09, and Nathan Shobe, BSAr'09.*



## Alumni Association

C O N T I N U E D

Now more alumni are sharing their knowledge and experience with current students. This approach is exemplified by The LEGENDS, a group created by the Alumni Association to both recognize the business achievements of alumni and share the knowledge they have gained. These alumni can help instill the entrepreneurial mindset in today's students and personally demonstrate the importance of leadership skills in today's global economy.

In addition, each academic year the Entrepreneurial Lecture Series brings back five or six alumni to give students an inside view of what it takes to found and manage a successful business.

Other alumni can benefit from these lessons as well, and so the Association has put increased emphasis on outreach efforts that bring alumni together. New forms of social media like Facebook have made that task of staying in touch much easier, and the Alumni Association continues to explore new avenues of communication with its members. The LinkedIn site that was started last year now has 1,300 participants. (See article at right for ways to become involved.)

Zulinski said this mutually beneficial interaction is no longer restricted to southeast Michigan where the majority of alumni live and work. The Alumni Association is working to establish a strong presence in cities around the country and eventually around the world.

As president of the Alumni Association, he has joined President Lewis N. Walker on alumni visits in Miami, Orlando, and Washington, D.C. He envisions active alumni chapters in Atlanta, Phoenix, Los Angeles, and even as far away as Saudi Arabia.

"The University sees its mission in global terms, and the Alumni Association should do the same," Zulinski said. "When President Walker goes out on the road, he raises the visibility of Lawrence Tech all around the world. We want to do that as well."

▲EP



President Mike Zulinski (second from right) is providing a higher profile for the Alumni Association outside Michigan. In March he joined Lawrence Tech President Lewis Walker and members of the Advancement team at a reception for Florida alumni at EPCOT Center.

## Becoming involved

There are many ways to get involved or stay in touch with the Alumni Association at Lawrence Tech.

Go to [ltu.edu/alumni](http://ltu.edu/alumni) as the starting point for finding information about a variety of alumni programs and activities. The Alumni Association has its own page where the newly updated bylaws can be viewed and downloaded.

The Lawrence Tech Alumni Association also has a group on [linkedin.com](http://linkedin.com). It's easy to sign up and read what your fellow alums are writing about.

In the coming months, the Alumni Association also will add a Facebook page and explore other ways to connect with its members.

Of course, there are more traditional methods for keeping in touch. Call Mary Randazzo, manager of alumni relations and alumni giving, at 248.204.2309, or email her at [mrandazzo@ltu.edu](mailto:mrandazzo@ltu.edu). Administrative Assistant Debbie Farina can be reached at 248.204.2307 or [dfarina@ltu.edu](mailto:dfarina@ltu.edu). ▲EP



Mary Randazzo



Debbie Farina



# Adding more entrepreneurship to engineering education



Grants may be the lifeblood of academic research, but it is unusual for a grant to take a university exactly where the faculty and leadership already want to go. That's what happened earlier this year when the Kern Family Foundation awarded a five-year, \$1.1 million grant to Lawrence Technological University to further integrate the entrepreneurial mindset in the education of engineering students.

It's rare for university administrators to allow grant providers to set guidelines for the curriculum, which is normally the carefully guarded domain of the faculty and the deans. Provost Maria Vaz, Engineering Dean Devdas Shetty, and the faculty at Lawrence Tech have been willing to make that commitment because they all believe in the importance of graduating leaders with an entrepreneurial spirit and a global view.

Shetty said the University is embracing the major changes that the grant will bring because they fit so well with the university's academic goals.

*A five-year, \$1.1 million grant from the Kern Family Foundation will help integrate the entrepreneurial mindset into undergraduate engineering education at Lawrence Tech.*

*Over the summer a faculty committee worked with a facilitator from the University of Delaware on adding problem-based learning to the curriculum for engineering students. During one of the sessions, Associate Professor Andy Gerhart makes a point to Professor Ron Foster while Associate Professor Chris Cartwright listens.*

"It is our mission to educate engineering professionals who are not only good in their field but also have leadership ca-

pabilities," the dean said. "The entrepreneurial mindset is a very important component of leadership, and we welcome the opportunity to strengthen that aspect of our curriculum."

Over the next five years the Kern grant will fund a variety of entrepreneurial programs at Lawrence Tech. The centerpiece will be the addition of entrepreneurial components in 30 courses of the engineering curriculum, including a number of College of Arts and Sciences courses required for engineering students.

Vaz, who is the principal investigator for the Kern grant, explained that the entrepreneurial mindset starts with critical



thinking, creativity, and innovation. Entrepreneurs also must know how to take measured risks, understand basic business practices, have experience working in and leading interdisciplinary and multidisciplinary teams, be able to listen and communicate effectively, and have the ability to incorporate input and feedback from diverse perspectives and cultures. Entrepreneurs must understand how to develop and bring products to market as well.

“We will achieve our vision of graduating engineers with an entrepreneurial mindset by changing the methodologies and pedagogy in the classroom and through co-curricular activities,” Vaz said.

## Multi-faceted approach

Lawrence Tech put together a successful grant proposal that approaches that goal from several directions. The agenda includes:

- A new Student Entrepreneurial Studio where students will construct products as part of the process of taking a new concept through the steps leading to commercialization.
- An entrepreneur-in-residence program that will bring a successful entrepreneur to campus to interact with students and faculty in a variety of settings.
- An entrepreneurial co-op and internship program that will give students the opportunity to work on product development and implementation in new and entrepreneurial companies.
- Creation of a regional competition that will promote the use of creativity and innovation in problem solving. Teams from other universities in the Kern Entrepreneurship Education Network (KEEN) in this region will be invited to the competition to be hosted by Lawrence Tech in fall 2010.

At the heart of the entrepreneurial education program is the daunting task of modifying 30 courses. Lawrence Tech plans to accomplish that over five years, and each year a faculty committee will rewrite the curricula for approximately six courses. The process began this

*Students Jason Hammond and Steven Charles show off their prototype product, “The Time Trap,” a portable laser timing system with multiple functions for hobbyists. They developed a detailed business plan for bringing their product to market as part of their senior project in industrial technology.*

**In an independent study project, students will explore what would be needed to make a product commercially successful or how to raise capital for development of a specific product.**

summer with courses in soil mechanics and engineering materials and the introductory courses in engineering, economics, calculus, physics, and chemistry.

The first step was to get the faculty thinking about the transition, and a series of workshops and training sessions were held over the summer. Then the members of the first faculty cohort took a week-long course in problem-based learning (PBL), a major part of entrepreneurial education. Next summer, they will be trained in active and collaborative learning (ACL), which will be incorporated into the seven original courses while a second faculty cohort begins work on the next set of courses to be converted.

According to Shetty, the effort to introduce the entrepreneurial mindset has to take place in several stages starting in freshman year for engineering students. For example, in a calculus course, students might study a mathematical situation and learn about evaluating the business ramifications of optimizing or minimizing the rate of change in a specific industrial process.

“Students sometimes wonder what they will use calculus for in engineering,” Shetty said. “We hope they will see that calculus and differential equations can provide a theoretical base for decisions with real-world applications.”

In an independent study project, students will explore what would be needed to make a product commercially successful or how to raise capital for development of a specific product. “With a combination of courses, hands-on projects, campus activities, and visiting lectures, we intend to develop a culture of entrepreneurship in our students,” Shetty said.







*Domino's Pizza CEO David Brandon (L), shown here with Lawrence Tech President Lewis Walker, reacts to a question following his speech about his journey as an entrepreneur. His visit was co-sponsored by the LEGENDS, the alumni organization for entrepreneurs and business owners, the Collegiate Entrepreneurs' Organization (CEO) at Lawrence Tech, and the Kern Entrepreneurship Education Network.*

### **An enduring commitment**

Over the past seven years, other grants from the Kern Family Foundation have helped Lawrence Tech improve the engineering educational experience in a number of ways, and students and faculty have participated in many activities sponsored by KEEN. The network's mission is to help universities produce engineers equipped with an entrepreneurial mindset who will contribute to business success and in so doing transform the U.S. workforce.

"With this new grant, the Kern Family Foundation has extended its continuous support for entrepreneurial engineering education at Lawrence Tech to 12 years. It is a remarkable commitment that reflects a strong belief that the entrepreneurial mindset is essential for maintaining the vitality of the American economy," Vaz said.

Lawrence Tech already offers an entrepreneurial certificate program through the College of Engineering's Lear Entrepreneurial Program, which was established to provide students with a setting to apply business models to real-world engineering problems. The course work is supplemented by conferences, internships, and competitions.

The entrepreneurial program fits perfectly with another major Lawrence Tech initiative – a four-year leadership education program for all undergraduates. Entrepreneurial education will help engineering students develop many of the skills they need as leaders in the business world.

Lawrence Tech won this new five-year grant because it came up with an exciting plan to give all undergraduate engineering students an understanding of entrepreneurial opportunities and how to pursue them, according to Timothy Kriewall, program director of engineering entrepreneurship at the Kern Family Foundation in Waukesha, Wis.

"These initiatives at Lawrence Tech are filling a gap in engineering education. Producing engineers who are technically proficient has never been a problem in America, but today's world requires more than that," Kriewall said. "The Kern Family Foundation wants to help America retain its prominence in technology and maintain its economic strength by cultivating social awareness and the values of free enterprise among graduating engineers."

While the Kern grant focuses on engineering education, Vaz said that the curriculum changes it has set in motion will eventually extend throughout all the University's undergraduate curricula.

"The Kern grant is reinforcing Lawrence Tech's approach of providing students with both the theory and practice of all academic disciplines, and it also fits in nicely with our plans to make leadership education a requirement for all undergraduates," Vaz said. ▲ *EP*



*Students (L-R) Tyler Mericle, Gokul Butail, Thomas Phillips, Jasmine Jones, and Sarah Thurmond practiced their entrepreneurial mindset when they competed in the 2009 Chicago Innovation Chase, an annual entrepreneurial competition.*



# Retooling for new job opportunities

As part of its ambitious Recovery program, Lawrence Tech has rapidly expanded its roster of certificate programs to help displaced workers make the transition to new careers.

*At the third networking reception held Aug. 13 at Lawrence Tech, Assistant Provost for Enrollment Management Lisa Kujawa (far left) joined a panel of business recruiters to discuss what employers are looking for when they interview job applicants.*



When last year's economic downturn hit hard in Michigan, Lisa Kujawa knew that Lawrence Tech had to move quickly to provide the educational retooling that displaced workers needed to land new jobs and start new careers.

As assistant provost of enrollment management, she was in the position to match up job seekers with academic opportunities at the University. In particular, former automotive engineers, including some who had graduated from Lawrence Tech, needed new educational credentials to make the transition to another sector of the economy.

The solution has been the creation of new certificate programs comprised of 15 to 18 credit hours that a displaced worker can complete in two semesters. The University rolled out nine new certificates in time for the summer semester and even more for the fall semester to bring the roster up to 40. (See list on page 16.)

The challenge was to match knowledge available at the University with the opportunities that were developing in specific industries. In the span of a few months Lawrence Tech forged new partnerships with business, industry, and government to ensure that job seekers can get the education they need at an affordable cost.

## **A challenging transition**

Nowhere is the need for close cooperation with the private sector and government more apparent than in the defense industry. Massive layoffs in the automotive sector created a surplus of engineering expertise in the Detroit area on which defense contractors were eager to capitalize. But employers were initially disappointed by the inability of some automotive engineers to adapt to a different manufacturing environment.

"We heard that some automotive engineers just weren't ready for the transition. Even though the engineering skills required

***The solution has been the creation of new certificate programs comprised of 15 to 18 credit hours that a displaced worker can complete in two semesters.***

were similar, the work environment, the scope of projects, and the security requirements were substantially different," Kujawa said.

To find out how to better prepare engineers for this career change, University officials started by tapping already strong relationships with TARDEC and TACOM. They reached out to defense contractors like General Dynamics and Raytheon. On April 1, a meeting was held with representatives of Automa-



tion Alley, the regional technology business consortium, and the Oakland County office of Michigan Works!, the state's workforce development department, to discuss opportunities for government-funded tuition grants.

In January, the first cohort of students will begin classes for a new Lawrence Tech graduate certificate, "Defense Manufacturing Engineering." In putting together the curriculum, Provost Maria Vaz, Engineering Dean Devdas Shetty, and Professor Greg Feierfeil, then-chairman of the Department of Mechanical Engineering, listened closely to recommendations coming from the industry in order to develop the series of courses that prepare returning students for that specific work environment.

"They were able to move at the speed of light," said Alysia Green, workforce development supervisor at Automation Alley. "You just don't expect to have a certificate program developed in a few months."

Because defense industry representatives were at the table from the very beginning, Lawrence Tech is providing the type of training that employers are looking for. Additionally, industry insiders are teaching some of the courses as adjunct professors. As a result, companies in the defense sector can recruit directly from this program.

"The way that Lawrence Tech asked for assistance in developing a certificate program got the attention of other higher education institutions," Green said. "I think everybody else is playing catch up."

John Almstadt, director of Oakland County Michigan Works!, said Lawrence Tech is helping his staff provide an alternative career path for engineers who have been displaced in the auto industry.

"Lawrence Tech is filling a real need," Almstadt said.

He noted that the partnership between Lawrence Tech and county employment officials begins at the top. Both President Lewis N. Walker and Vaz serve on the Workforce Development Board that oversees the county's Michigan Works! office and has played an important role in sustaining a knowledge-based workforce in Oakland County and Southeast Michigan.

Vaz also worked with the consultant who set up the survey for the Skill Needs Assessment Checklist that identified the job openings and the skills that are needed in the 10 fastest-growing employment sectors in Oakland County.

### **Tuition support is vital**

Finding tuition grants is a pivotal part of the process for displaced workers, and the University has benefited from the knowledge and contacts of Dean of Students Kevin Finn, who worked with state and federal employment programs prior to coming to Lawrence Tech. Lawrence Tech has worked closely with government officials to make sure that its students will qualify for the state No Worker Left Behind program and federal programs such as the Trade Adjustment Assistance Act and the Workforce Investment Act.



*Lawrence Tech Provost Maria Vaz and President Lewis Walker listen as displaced worker John Nametz explains how the "Recovery Starts Here" program is helping him retool his career. Nametz obtained a job after completing the Energy and Environmental Management graduate certificate program in May.*

Meeting the goals of the U.S. Department of Labor is the best way to attract tuition funding for new academic programs, Finn noted.

Since the Lawrence Tech certificate programs fit well with those goals, the Oakland County office of Michigan Works! will fund participants' costs by tapping more than one federal jobs program.

"Michigan Works! is very results driven. They want to see the jobs at the end of the educational program," Finn said. "Thanks to our partnerships in the defense industry, we were able to show the state officials that we can administer the job training directly and find jobs for the graduates."

### **Building on a solid foundation**

Lawrence Tech's commitment to help displaced workers make the transition to new careers began last December when Walker launched the "Recovery Starts Here" initiative. The University began by setting aside \$3 million for 50 percent tuition grants for displaced workers or their dependent children through the completion of an undergraduate or graduate degree. Approximately 450 students who had lost their jobs have returned to school because of that commitment.

The University also organized networking receptions and career development workshops that have attracted almost 3,000 job seekers this year. (See back cover.) The feedback from those events helped bring the second phase of the "Recovery Starts Here" initiative into focus.

"Right from the start we saw that people were looking for a short-term solution for creating new career opportunities," Kujawa said. "We also saw that Michigan Works! was looking for training programs that led directly to a job offer."

Vaz worked with the deans and faculty of Lawrence Tech's four colleges to identify certificate programs of 15 to 18 credit



hours that could be completed within a year. In keeping with the University's "theory and practice" approach to education, they looked for ways to bring academic programs into line with employment opportunities in industry.

Lawrence Tech has also expanded certificate offerings to reflect the thousands of jobs that are being created in the film industry in Michigan, thanks to generous state tax incentives. Movie producers want to hire local people with production skills rather than fly in workers from Hollywood.

Building on the bachelor's degree program in media communication introduced in 2006, the University has added six undergraduate certificates: Animation and Visual Effects for Film, Film and Audio Technique, Film and Production Techniques, Set Design, Television and Video Production, and Video and Audio Technique.

These certificate programs have the added benefit of seamless integration into the curricula for a bachelor's degree and perhaps a master's degree in the future.

Preparing students for the film industry has provided the opportunity for new collaboration between the colleges. Many of the new jobs involve engineering and graphic design skills in addition to the communication and computer science knowledge taught in the College of Arts and Sciences. There are plans to establish a film institute at Lawrence Tech that draws on campus-wide resources.

"People who want to advance in this industry will need course work from all our colleges," Kujawa said. "Having an interdisciplinary knowledge base and skill set will lead to a broader variety of jobs."

Alternative energy and energy management are two other areas where many new jobs are anticipated in Michigan. Battery technology has been a priority of the Granholm administration in Lansing, and in August Vice President Joseph Biden came to Michigan to announce that the state would receive \$1.3 billion in grants for battery research and development.

University officials have worked with representatives of General Electric, DTE Energy, and the auto companies, and have also coordinated efforts with Automation Alley and Oakland University.

In this field Lawrence Tech now offers an undergraduate certificate, Alternative Energy Engineering Technology, and two graduate-level certificates, Energy Engineering and Energy and Environmental Management.

The University is also breaking new ground in the delivery of certificate programs. Two certificates are available exclusively online, and students have the option to take two others online.

The initiative that began as the "Recovery Starts Here" is beginning to look like the "Recovery Continues Here." Displaced workers who turn to Lawrence Tech discover that they have multiple options for getting back into Michigan's changing economy. That's because the University's leadership is constantly exploring new ways to deliver education that will lead to a job.

"We keep hearing over and over that no one is doing as much as Lawrence Tech," Kujawa said. ▲EP

## Undergraduate Certificates at Lawrence Tech

- Alternative Energy Engineering Technology
- Animation and Visual Effects for Film
- Biochemical Engineering
- Bioelectronics
- Biomechanics
- Building Information Modeling and Computer Visualization (online)
- Computer Science
- Electrical Power Systems
- Embedded Systems
- Entrepreneurial Skills
- Film and Audio Technique
- Film and Production Techniques
- Industrial/Organizational Psychology
- Innovative Product Design
- Set Design
- Technical and Professional Communication
- Television and Video Production
- Video and Audio Technique

## Graduate Certificates at Lawrence Tech

- Aeronautical Engineering
- Architectural Management (online)
- Bioinformatics
- Critical Studies in Architecture
- Energy and Environmental Management
- Energy Engineering
- Information Assurance Management
- Instructional Systems Design and Presentation
- Instructional Technology
- Manufacturing Systems for the Defense Industry
- Manufacturing Systems
- Nonprofit Management and Leadership (also online)
- Project Management (also online)
- Robotics Education
- Sustainable Architecture
- Technical and Professional Communication
- Telecommunications
- Transportation Design
- Urban Design
- Workplace Technology



## Lawrence Tech wins 'Best in Midwest' and 'Military Friendly' designations

Lawrence Tech has earned *The Princeton Review's* 2010 "Best in the Midwest" designation based on academic excellence and an anonymous student survey, and has been named to the 2010 Military Friendly Schools list compiled by *G.I. Jobs*.

To receive the "Best in the Midwest" designation in the 2010 *Best Colleges: Region by Region* school selections, colleges first had to meet standards for academic excellence within their region.

Inclusion on the prestigious list also depended on the results of an anonymous online survey that asked students to rate their own schools on several issues – from the accessibility of professors to the quality of campus food – and answer questions about themselves, their fellow students, and their campus life. The rating categories include academics, admissions selectivity, financial aid, quality of life, and green initiatives.

*The Princeton Review* awarded the Midwest designation to 158 colleges in 12 states. Only about 25 percent of the nation's colleges and universities receive the honor.

"We chose Lawrence Tech and the other terrific schools we recommend as our 'regional best' colleges primarily for their excellent academic programs," said Robert Franek, *Princeton Review's* vice president of publishing.

The Military Friendly Schools list honors the top 15 percent of colleges, universities, and trade schools that are doing the most to embrace America's veterans as students.

The U.S. Department of Veterans Affairs has designated Lawrence Tech as a "Yellow Ribbon School" for its 25 percent match of the GI Bill funds available to any veteran.

Lawrence Tech also offers military discounts to all active military,

inactive, reserve, or retired military – 25 percent off tuition and fees for undergraduate students and 16 percent off for graduate programs.

"We have a veterans affairs coordinator who works one-on-one with all of our veterans to ensure their benefits are applied correctly and that their transition is seam-

less," said Lisa Kujawa, assistant provost for enrollment management at Lawrence Tech.

This year the Office of Student Affairs at Lawrence Tech is adding a veterans student club and a

veterans support group.

Since 1995, Lawrence Tech has also been cited annually by *U.S. News & World Report* in the top tier of America's Best Colleges.

▲EP



## Horltdt award goes to longtime faculty leader



*Professor Jerry Crist (L) received the Henry B. and Barbara J. Horltdt Excellence in Teaching Award from Lawrence Tech President Lewis N. Walker at a reception in April. Crist has taught at Lawrence Tech since 1968. Over the years he has helped design the new chemistry curriculum, chaired the Department of Chemistry and the Department of Natural Sciences, and served as interim dean of students 2001–03.*

## Taiwanese teachers meet national sports idol



*Thirty-one Taiwanese teachers in the Master in Educational Technology degree program met Detroit Tigers pitcher Fu-Te Ni, one of three Taiwanese players in the major leagues, when they went to a baseball game at Comerica Park in August. Most of the teachers earn their master's degree by taking summer courses at Lawrence Tech for four years.*



## Lawrence Tech 'comeback kids' crack top 10 in aero competition

After its plane crashed in the very first round of flight, the Lawrence Tech team became the "comeback kids" of the annual SAE Aero Design Competition held in Georgia in April by climbing up to eighth place – the University's best performance ever.

Thanks to a strong written report and oral presentation, Lawrence Tech stood in 14th place out of 43 teams when the flights began. But it looked like 14 months of planning, design, construction, and testing would all come to nothing when the plane barreled into the ground on its initial run in the preliminary round. Apparently the controls had been knocked out of alignment during the long road trip.

The crash presented an additional challenge for Lawrence

Tech's Aero Design Team consisting of Matt Greer, Bryan Beltowski, Mike Camilleri, Ed L'Esperance, Josh Shepard, and Mark Stanek. They were already facing stiff competition from some of the largest engineering schools in the

world, including the University of Michigan, Ohio State, Texas A&M, Cal State, and universities from Brazil, Poland, Germany, India, and Canada.

Most planes in the competition were constructed with balsa wood and foam, but the Lawrence Tech plane had a Kevlar body, so the damage was confined to the front. Much to the surprise of spectators, Lawrence Tech was back on the

starting line for the fourth of eight scheduled rounds of flying with progressively heavier payloads.

The team moved steadily up the rankings, and in the rain-abbreviated final day managed to carry the fourth heaviest load in the competition. Even without any points from the preliminary round, Lawrence Tech finished eighth overall and first among the Michigan teams.

"Our students overcame adversity and worked as an extraordinary team to earn Lawrence Tech's best finish ever," said Associate Professor Andrew Gerhart, the SAE Aero faculty advisor. ▲EP



*Lawrence Tech students revisit the site of their plane's crash during the SAE Aero Design Competition. Local pilot Colton Clark (L) joins team members Bryan Beltowski, Mike Camilleri, Matt Greer, Mark Stanek, Ed L'Esperance, and Josh Shepard.*

## Two students are at home with history

Two Lawrence Tech students majoring in architecture and construction management played a role in architectural history while spending two summers at the University's Affleck House designed by Frank Lloyd Wright.

Seniors Justin Butler and Doug Metiva lived at the Bloomfield Hills house last summer while restoring the exterior, but lived elsewhere this summer while working on the interior.

The biggest challenge was replacing tidewater cypress planks up to 30 feet long and then replicating the original color of the siding. Since the house is built out from a hill and over a streambed, much of the work was done from scaffolding. Dealing with wasps and bees nesting around the house was an occupational hazard.

By living there last summer, Butler and Metiva eliminated the

musty smell of a vacant house and found numerous small improvements to make. They also studied the master's blueprints.

The students were given responsibility for planning and performing restoration projects. They worked closely with Associate Dean Joseph Veryser, BSAr'76, and Facilities Coordinator Brian Raymond of the College of Architecture and Design. "We told them what we wanted to do on the house, and they allowed us to go at our own pace," Butler said. "They had trust in us."

The 2,350-square-foot Affleck House was designed by Wright for a family of modest means. A construction model was displayed in the Museum of Modern Art prior to its completion in 1941. Affleck House is on the Michigan and National Registers of Historic Places, and is one of the 50 most

significant structures in the state, according to the Michigan Society of Architects.

The house was donated to the University in 1978 by Mary Ann Lutomski and Gregor P. Affleck, the children of the original owners, Gregor and Elizabeth Affleck. The College of Architecture and Design

uses it as a teaching tool.

Aided by donors, the University completed a wide-ranging restoration of the house and grounds in 1990. But maintenance and restoration are never-ending tasks at historic buildings, and that's especially true for houses designed by Wright. ▲EP



*Lawrence Tech students Doug Metiva and Justin Butler have a good view of architectural history from scaffolding at the Affleck House designed by Frank Lloyd Wright.*



## Lawrence Tech students win international recognition

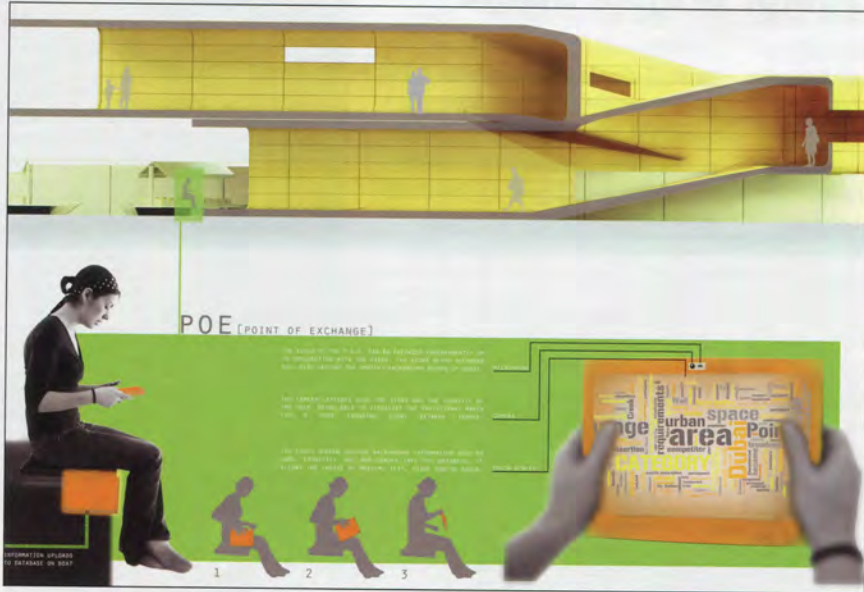
Three students in the Allied Design Studio: Theory and Competitions course taught by Assistant Professor Philip Plowright in the College of Architecture and Design won international recognition for four projects during the 2008–09 academic year.

“To have four projects recognized in three international competitions in the same year was an outstanding achievement,” Plowright said. “These students have demonstrated that they can be competitive on a world stage.”

The highest recognition came in the Dubai-based 2A International Architectural Students and Young Architects Competition: Du(b)ailities: Supra\_global\_culture / micro\_ethnic\_localities. *2A Magazine* is a publication based in the United Arab Emirates that focuses on bringing modern art and architecture to the gulf region of the Middle East.

Lisa Sauve, with help from fellow student Adam Smith, finished second in the micro\_ethnic\_localities division of the competition.

The project addressed small-scale interventions in Dubai’s city



*This illustration was part of Lisa Sauve’s entry that finished second in a Dubai design competition. She and two other students from the same course won international recognition for four projects.*

fabric in order to negotiate issues of nationality, culture, and ethnicity, in a global city.

Lawrence Tech student Vincent Daniele received an honorable mention in the 2008 Line of Site International Design Competition, “Meeting Point.” Line of Site is a British-based competition supported by Google, ACO Technologies, and *Building Design*

*Magazine/webzine*. The competition addressed the interaction of social connections with formal space. The design was to be a social equalizer, attractor, and loci, of a proposed area.

Daniele was in the top five and the only finalist from North America. Sauve’s entry in the same competition was one of 17 short-listed out of 92 submissions.

Smith’s proposal for a clinic module in Kbugo, Rwanda, was shortlisted in the Design for the Children, Fight for the Children Competition 2008. The challenge was to develop a sustainable and culturally sensitive pediatric clinic model for East Africa. ▲EP



## Go west, bridge builders

*During its trip to Las Vegas to compete in the national finals in May, the Lawrence Tech Steel Bridge Team visited the Hoover Dam, where a bypass highway with a 1,900-foot-long bridge across the Colorado River is nearing completion. The team members are (L-R) Lindsay Bzymek, Jim Mazur, Lauren Meganck, Captain Nick Knust, and Greg Jackman. The team finished 19th out of 47 teams in the national competition sponsored by the American Society of Civil Engineers, ranking ninth on display and 14th in construction speed. The team qualified for the nationals by winning the North Central Regional Conference event hosted this spring by Lawrence Tech.*



## 'Big Blue' wins engineering technology senior project award

The senior project team of Anthony J. Castellucci, Jason R. D'Antimo, Luciano Mancini, and Daniel Peraino won the 2009 engineering technology senior project award for building and installing the six-foot-square clock, "Big Blue," in the atrium of the Buell Management Building. The project involved more than 700 discrete blue LEDs, microprocessor control, IR remote programming, 20 custom PC boards, and a custom-designed and manufactured aluminum frame with a blue acrylic lens.

The clock was redesigned three

times during the semester to reduce weight by a third and cost by a half. The team constantly tried different engineering methods to manufacture and operate the clock more efficiently. This is a green-power design that consumes only 10 watts of power.

Professor Kenneth Cook, chair of the Department of Engineering Technology, asked the students to build a clock for the atrium as a senior project and helped them with some of the logistics. ▲EP



Senior project team members (L-R) Anthony J. Castellucci, Daniel Peraino, and Jason D'Antimo designed, fabricated, and then helped install "Big Blue" in the Buell Management Building atrium in April. Luciano Mancini was the fourth team member.

## Lawrence Tech wins grants to improve support for entrepreneurs

Lawrence Tech has won a \$70,000 grant from the Economic Development Administration (EDA) of the U.S. Department of Commerce and a \$10,000 grant from the Detroit Regional Chamber to study and seek to improve entrepreneurship, innovation, and product development in southeast Michigan. The remaining support for the \$146,000 feasibility study will come from the University and service providers.

The study will determine the feasibility of creating a regional center for innovation and entrepreneurship that would be a catalyst

for innovation and entrepreneurial development in a region that has experienced high levels of unemployment, underemployment, and out-migration.

The study will make recommendations to EDA within a year

on steps to improve the region's entrepreneurial infrastructure. It will focus on creating opportunities for displaced automotive workers and engineering, science, and business professionals.

The project director is Mark Brucki, executive director of economic development and government relations. The research director is Robert Inskeep, executive director of the Center for Nonprofit

Management, and the research manager is Matthew Cole, director of the psychology program.

"The EDA grant allows us to identify unique opportunities to provide an environment and resources for product creation, innovation, and job creation that are not being offered elsewhere in the state, the Great Lakes region, or the nation," Brucki said. ▲EP

## Element One team travels to South Carolina



Mark Brucki



Members of the Element One team took a working spring break in March when they traveled to Columbia, S.C., with their racing kart powered by a hydrogen fuel cell. The kart was a major attraction at the National Hydrogen Association Conference and Hydro Expo. At left in the photo is Associate Professor Rob Fletcher, the team's faculty advisor and director of the Alternative Energy Lab at Lawrence Tech.



## Marburger awards recognize outstanding performance

At the annual Mary E. and Richard E. Marburger Excellence in Achievement Awards ceremony in April, Dean of Students Kevin Finn and Assistant Provost for Enrollment Management Lisa Kujawa were recognized for their leadership roles in Lawrence Tech's \$3 million "Recovery Starts Here" initiative to help displaced workers.

Awards were also presented to Bruce Annett, executive director of marketing and public affairs, as administrator of the year; Ruth Favro, professor of mathematics and computer science, as faculty member of the year; and Tamara Braswell of the University Housing office as the staff person of the year. The awards came with \$1,000 honorariums.

Finn and Kujawa shared the Marburger Distinguished Achievement Award: Champion of Institutional Excellence and Preeminence.

In December Lawrence Tech announced its "Recovery Starts Here" program highlighted by 50 percent tuition grants through completion of a degree program for displaced workers or their dependent children. (See back cover.) Finn and Kujawa were instrumental in putting together this initiative within a few weeks and then were responsible for its implementation.

Kujawa came to Lawrence Tech in 1999 as admissions director and now oversees all aspects of the admissions process as assistant provost. She has more than 25 years of experience in admissions, recruitment, and enrollment management.

Finn came to Lawrence Tech in 2001 to be director of career services. In 2007 he was promoted to executive director of career services and international programs and then was named dean of students last year.

Annett started at Lawrence Tech in 1976 as public relations director. He soon took on a second job as alumni relations director, and held both positions until 1999 when he

was promoted to his current position overseeing the University's marketing efforts.

Favro, who retired this year, taught almost all the University's math courses as well as two computer science courses since joining the faculty in 1973. She has been an active advisor and mentor to students.

Braswell was a temporary worker before being hired full-time in 2003 in the University Housing office, where she has established a reputation for her professional and pleasant customer service. ▲EP



President Emeritus Richard Marburger, his wife, Mary, and President Lewis N. Walker flank the 2009 Marburger Award recipients (L-R) Lisa Kujawa, Kevin Finn, Bruce Annett, Tamara Braswell, and Ruth Favro.

## Lawrence Tech introduces Culture Shock



*Culture Shock, Lawrence Tech's newest entry in the Intelligent Ground Vehicle Competition, scored well in the annual event at Oakland University in June that attracts teams from more than 40 universities. The new robot took fourth place in the design competition, sixth place in the navigation challenge, and ninth place in the autonomous challenge. Faculty advisor CJ Chung watches team leader Brace Stout make some last-minute adjustments to the programming, while teammates Emily Trudell and Ryan Matthews stand by.*



## Speed and capacity improved with campus wireless network upgrades

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Lawrence Tech made the switch to Google's email service and Google Apps for Education, and is also addressing two bottlenecks in the University's data network that have contributed to slow connectivity on campus.

"We are improving the use of technology in classrooms and the student experience in housing," said Tim Chavis, who joined the University as executive director of IT Service Delivery earlier this year.

The first step to improve connectivity was to boost the bandwidth of the University's external Internet connection provided by the Merit Computer Network from 30 Mb to 75 Mb, an increase of 150 percent.

Since Merit is a nonprofit organization supporting the Michigan

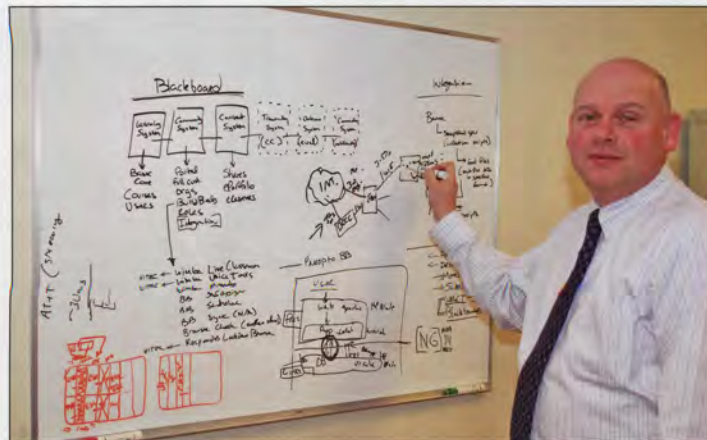
educational community, an additional 15 Mb is also available for services provided through a network of Merit members known as OnNet. Internet 2-based services and Microsoft upgrades hosted at the University of Michigan are examples of what is available to the Lawrence Tech community through OnNet.

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All floors of all campus buildings, including housing, are now covered.

The reconstructed wireless system improves a bottleneck from laptops to such systems as Banner, Blackboard, and other key campus applications hosted in the Edward Donley Computer Center (EDCC) in the Science Building. The increased Internet bandwidth helps reduce a second bottleneck from EDCC to the Internet, so that the overall network throughput will be enhanced.

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**Tim Chavis is the new executive director of the Department of Information Technology Service Delivery.**

## TARDEC grants highlight 10th Robofest competition

The Joint Center for Robotics at the Tank Automotive Research, Development and Engineering Center (TARDEC) in Warren introduced a new set of awards at Lawrence Tech's 10th annual World Robofest Championship in May. Seven grants ranging from \$500 to \$1,000 were awarded to teams demonstrating creative and innovative robotics projects with entrepreneurship components.

As presenting sponsor for Robofest 2009, TARDEC supported Lawrence Tech's outreach efforts to get students in grades 5-12 interested in technology-based careers.

**Lawrence Tech President Lewis N. Walker and TARDEC representative Bernard Theisen (top row center) congratulate World Robofest Championship teams that won project grants from the U.S. Army's Joint Center for Robotics in May.**

Robofest is an international competition of autonomous robots that are computer-programmed to act independently. This year approximately 1,700 students from 10 states and five countries participated.

"Events like Robofest are important to TARDEC because they help us lay the groundwork for the

future of Michigan's engineering and technical workforce," said Bernard Theisen, project manager for outreach at the Joint Center for Robotics. "Robotics is a multidisciplinary field, so students are exposed to the computer science, electrical engineering, mechanical engineering, physics, and math disciplines."



TARDEC funding also supports workshops, education assessments of Robofest participants, and student teams. Workshops at 10 Detroit and Highland Park schools built awareness of robotics and gave educators the basics for developing student projects and teams.

Robofest founder CJ Chung, Lawrence Tech associate professor of mathematics and computer science, said support from sponsors like TARDEC has helped Robofest grow from 150 participants in 2000.

"Together our goals are to provide hands-on learning and teamwork experiences that will motivate young students to pursue higher education in technology-driven fields," said Chung. "We also are nurturing creative and innovative ideas that will lead to entrepreneurship." ▲EP



## Lawrence Tech helps small businesses grow in Detroit

Economists searching for the “green shoots” of a resurgent economy need look no further than the Osborn community on Detroit’s east side where more than 40 new businesses have started up or

grown with help from the Center for Nonprofit Management at Lawrence Tech. The program is scheduled to run through fall 2010. With the support of a \$257,000 grant through the Good Neighbor-

hoods Initiative of the Skillman Foundation of Detroit, the Osborn Microenterprise and Entrepreneur Program was launched in fall 2007 under the leadership of program liaison Robert Inskeep of the College of Management. Adjunct Professor Ken Gadd is the program manager, and several other Lawrence Tech faculty and students are also involved.

The program employs techniques of entrepreneurship and microenterprise that have been used to produce grassroots economic growth in other countries and more recently in the United

States. Local residents have benefited from basic entrepreneurial training, advanced business workshops, and alternative career placement activities. The program provides business mentoring support, referrals for business start-up loans, and personal support services.

Graduates of the third 10-week training program completed in May have opened three clothing stores, two farming operations, a tree service, a car seat installation service, a modeling school, a dessert store, and a not-for-profit center for Hmong needlecraft. ▲EP



Adjunct Professor Ken Gadd (standing) conducts a class in the Osborn Microenterprise and Entrepreneur Program.

## Center promotes global leadership and understanding

In June, Thomas Marx, director of the Center for Global Leadership and Understanding in the College of Management, welcomed more than 100 business professionals, students, and faculty to the center’s first seminar entitled “Globalization and Leadership: Perspectives from Vietnam.” In the background are the main speakers, Viet Nguyen and Clarence Rivette of Global Perspective Consulting – Vietnam. The center fosters collaboration and partnership between business and higher education to promote appreciation, understanding, and skill development in global leadership.



## Lawrence Tech hosts ‘Green Box City’

Over 300 students from Eastover Elementary School in Bloomfield Hills brought youthful enthusiasm to the College of Architecture and Design when they constructed a “Green Box City” as part of an educational program promoted by the American Institute of Architects to increase understanding of urban design by combining art, architecture, creative thinking, city planning, design, construction, fun, and learning. The youngsters received some guidance from (L-R) Dean Glen LeRoy and students Luke Wojewucski, Christine Sass, and Gonzalo Aro-Ruiz.



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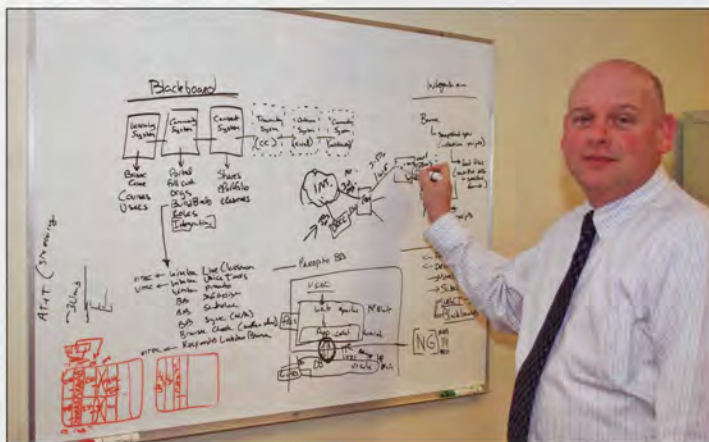
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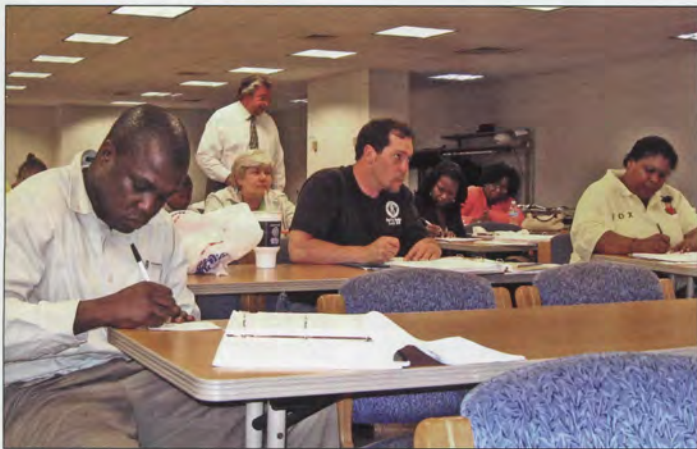
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## Davis helps write second act for Ford automotive icon

When the 2010 Ford Taurus was introduced earlier this year in a blaze of favorable publicity, the automotive press rolled out all of its superlatives.

"It may prove to be the best sedan the company has ever produced," declared *Autoweek* magazine.

"A vehicle you can live with every day, that happens to have a secret under the hood," pronounced the editors of *Esquire* magazine in naming the 2010 Taurus SHO model as its inaugural Car of the Year.

Those words are music to the ears of Frank Davis, BSME'84. As executive director of North American Product Programs for Ford Motor Co., Davis is responsible for the product development and launches for the automaker's entire North American portfolio.

Over the past couple of years, he has spearheaded the launches of the 2009 Lincoln MKS, the Ford Flex, the Ford F-150 pickup, the 2010 Ford Fusion and Fusion Hybrid, the Mercury Milan and Milan Hybrid, the new Mustang, and the fully redesigned 2010 Ford Taurus.

Davis is proud of the entire lineup but he takes particular pride in the reintroduction and reinvigoration of the iconic Taurus nameplate. "Customers told us they want style, convenience, performance, and fuel economy," he explained. "We're sure the new Taurus will exceed their expectations."

If the rave reviews are any indication, his prediction will prove correct.

"We had three main criteria in selecting the *Esquire* Car of the Year," says David Granger, editor-in-chief. "The vehicle needed to be a pleasure to drive and be capable of shortening your breath when you slam down the pedal. It needed to be gorgeous and aggressive, capable of eliciting stares and gawks. And it needed to be attain-

able – a vehicle that most men actually can buy and drive. The new Taurus SHO nailed all of these parameters."

Competing with some of the best luxury sedans in the industry, Taurus SHO was the editors' unanimous choice.

The original Taurus was an immediate sensation when it debuted for the 1986 model year. Coincidentally, its development was led by Lewis C. Veraldi, BSME'68, who led Ford's large car development prior to his death in 1990. In the words of *Autoweek*, it "set the mark for American full-size sedans for a couple of decades." More than seven million Tauruses have been sold since then, and an estimated four million remain on the road.

But the 2010 Taurus that began rolling into dealer showrooms this summer is notably different from its famous antecedent. It has been re-envisioned with a more sculpted, powerful, and sporty design, and it also earned a "Top Safety Pick" rating from the Insurance Institute

for Highway Safety based on its performance testing.

A native of the Detroit area, Davis started his career at Ford in 1984, shortly after graduation, in heavy truck development. Over the years, he contributed to power train programs, heavy trucks, compact pickups, and Ford's best-selling line of F-Series full-size pickups.

"My first 22 years with Ford were all about putting the 'Built Ford Tough' into our market-leading line of trucks and commercial vehicles," Davis recalled.

He served as chief nameplate engineer for the Super Duty truck lines and the F-150 lineup of pickup trucks before advancing to vehicle programs director for pickup trucks and commercial vehicles. In 2004, Davis was named an *Automotive News* "All-Star" for his leadership and product development savvy.

Building on that success, Davis was promoted to vehicle programs director for all body-on-frame products, with responsibility for development and launch of all F-Series trucks and Expedition/Navigator full-size SUV product lines.

When he assumed his present role in the fall of 2007, Davis and his team were given the daunting task of reinvigorating the Taurus

nameplate. The team was not only empowered to bring the designer's vision to life with the latest technology, but also to deliver the vehicle for the 2010 model year – a full 12 months ahead of schedule.

Davis attributes his success at Ford in large measure to his education at Lawrence Tech.

"My time at Lawrence Tech made me who I am today and taught me many life lessons such as my work ethic, which includes always outworking your competitors and developing real 'why buys' for your customers to distinguish yourself from your competition," Davis said. "Another important life lesson I learned was the value of teamwork through my senior project with Professor George Schneider."

His favorite courses were in chemistry with Professor Jerry Crist. "He really inspired us to go above and beyond and look at education as a life's learning," he said.

"Finally, I owe my career to Lawrence Tech since I was recruited by Tom Baughman, my first manager at Ford, right out of the recruiting center. It was the best decision of my life," Davis said.

▲ CM



Lawrence Tech alumnus Frank Davis poses with the 2010 Taurus SHO that is generating favorable publicity reminiscent of the original Taurus introduced more than 20 years ago.



## Lawrence Tech has a lock on ESD leadership award

A new prestigious leadership award is becoming a Lawrence Tech tradition.

In June John G. Petty, BSME'65, was awarded the Harold Slaight Ellington Leadership Award by the Engineering Society of Detroit (ESD) and Harley Ellis Devereaux, which is headquartered in Southfield.

Last year the inaugural award was presented to President Emeritus Richard E. Marburger.

Named after the national design firm's founder, the award honors an individual who has demonstrated a continuum of outstanding leadership on behalf of ESD and its communities. Elected president of ESD in 1934, Ellington is remembered for saving the society from collapse during the Great Depression.

Petty was recognized for more than 40 years of leadership in the engineering profession prior to his 2004 retirement from General Dynamics where he was director of

land systems. He is a past president and director of ESD and currently serves on Lawrence Tech's board of trustees.

Marburger, another past presi-



dent of ESD, has been at Lawrence Tech for more than 40 years and was president from 1977 to 1993. He made significant contributions to technology during his 17 years at General Motors Research Laboratories and continues to volunteer daily at Lawrence Tech as a student advisor and counselor.

Both Petty and Marburger received commemorative plaques, and the College of Engineering received a \$500 contribution in each of their names from Harley Ellis Devereaux. ▲EP

*In July Michael Cooper (L), a principal at Harley Ellis Devereaux, presented the Harold Slaight Ellington Leadership Award to John G. Petty, BSME'65, a Lawrence Tech trustee. They were joined by President Emeritus Richard E. Marburger (R), last year's recipient.*

## Knopf revs up retirement at the sprint racing track

It's been nearly 15 years since Ken Knopf, BSEE'61, retired from his job as an engineering supervisor for Lockheed, but the Santa Maria, CA, resident isn't letting his motor idle in retirement.

In addition to bowling and golf, he's one-half of the pit crew for his son, Mike – AKA “The Enforcer” – who races high-powered sprint cars.

“My role is primarily to make sure the engine runs properly and is repaired by our sponsor, Enforcer Racing Engines,” Knopf explained. “I service it, adjust the valves and make sure Mike has enough fuel for the entire race.”

His partner in the pit crew is former sprint race car driver Jon Harshbarger.

Mike was born while Knopf was pursuing his degree at Lawrence Tech. Now 54, Mike has been racing as a hobby since he was in his early 20s. Knopf notes proudly that his son has raced with some

of the top racing organizations in California including the World of Outlaws, a division of winged sprint cars, and many others. Mike has won so many main-event races over the years that he's practically lost count.

Mike launched his racing career with the American Motorcycle Association in the 250 Pro Class in the Santa Maria area, and he was the champion in his class two years in a row. From there he graduated to racing a hobby stock, which Knopf describes as “basically something you get out of a junkyard, make it safe and then go out and race it.”

Now he races high-powered sprint or super-modified cars.

Racing with his son isn't Knopf's only interest. He was formerly a semi-professional bowler on the West Coast Senior Tour. He has five sanctioned and four non-sanctioned 300 games, and he currently boasts a 220 average. In golf, his current handicap is about a 12.

Knopf enrolled at Lawrence Tech after a five-year stint in the Air Force. He worked at Chrysler's missile division by day and took classes at night. “I decided to take advantage of the GI Bill and make

something of myself,” he recalled. “It was the best thing I ever did.”

In 1995, Knopf retired after 33 years with Lockheed Missiles & Space Co. at Vandenberg Air Force Base in California. He and his wife, Rose, also have two daughters and four grandchildren. ▲CM



*Ken Knopf (R) celebrated his 78th birthday with his son, Mike, at a race for 360ci sprint cars at a dirt track near his home in Santa Maria, CA, on Aug. 15, 2009. With 26 cars competing, Mike started on the pole in the heat race and finished second ahead of the season's point leader and a past track champion.*



## Lawrence Tech students REACH out to orphans in Haiti

Starting as early as this winter, a team of Lawrence Tech students will be working on a critical construction project at a flood-prone orphanage in Haiti. The students will build elevated walkways during the first phase and then return next spring to build housing in the poverty-stricken village.

The hands-on humanitarian project is the result of the University's new partnership with Reconstruction Efforts Aiding Children without Homes (REACH), a nonprofit founded by Donald

A. Stevens, BSAr'92. Stevens is president of two building companies, STUCC ON STEEL and SHELTER2HOME, in Winchester, VA.

Stevens founded REACH in the wake of the tsunami that struck Southeast Asia the day after Christmas in 2004, killing more than 300,000 and displacing more than five million people. An architect by education and a builder by trade, Stevens sprang into action with several friends to help rebuild Sri Lanka, which was particularly devastated by the natural disaster.

They worked closely with Habitat For Humanity-Sri Lanka to develop a partnership that would lead to building the first Habitat environmentally friendly, sustainable homes. Then, with the broader goal of helping more children, Stevens and his supporters re-focused and expanded their efforts, forming REACH to aid orphan children in need worldwide.

"I'm excited about this opportunity," said Melissa Grunow, leadership curriculum coordinator in the Office of Leadership Programs at

Lawrence Tech. "I've sent students abroad to do other community outreach type of programs, but this is the first where they'll be using the skills they developed in the classroom."

Grunow's primary role is to build awareness about the REACH program across campus and recruit six to 10 students to participate in the Haitian effort. "Students at Lawrence Tech are required to participate in a leadership curriculum, and this program will help them enhance their leadership experience," she said.

Joseph Veryser, BSAr'76, associate dean of the College

## Alumnus promotes 'green' technology for hot-water boilers

Across Europe some 4,000 commercial and industrial facilities are going "green" and reducing their carbon footprint by using a smart device that optimizes the energy used to fuel their hot-water boilers.

Well established on the other side of the Atlantic, the technology is now gaining a foothold in the United States, thanks in part to Steve Schulte, BSME'82, general manager of PACE Mechanical Services Inc. in Westland, a division of Emcor Group Inc.

Called the model M2G, the device is manufactured in Europe by Sabien and distributed in the United States by Greffen Systems Inc. PACE, which holds the exclusive distribution rights in Michigan, has installed a dozen of the devices in the state. Another dozen have been installed by others around the country in the past year.

The device is a small box, about the size of two or three videocassettes, and it sits on the top of the existing burner controller. "In effect, the device 'learns' about the building load, and then starts to make decisions as to when it is best for the boiler to be on and when it is best for it to be off. The built-in algorithms in the control-

ler end up saving natural gas," Schulte explained

In Europe, Schulte notes, the emphasis is more on the environment and less on saving money; in the United States, it's just the opposite. Despite that, he predicts a bright future for the Greffen boiler controller in this country. "It seems to be where the market is going right now, and my prediction is that the trend will stay," he said.

Schulte joined PACE Mechanical Services in 1996 and previously worked with Centex Construction Co., where he managed the mechanical, electrical and plumbing work on the \$250 million Detroit Veterans Administration Hospital Project.

Although he started his academic career at Michigan State University, Schulte transferred to Lawrence Tech because he was so impressed with the University's commitment to "theory and practice."

"When I compare the graduates of other universities and schools to those from Lawrence Tech, there is a clear distinction," he says. "And now that I'm back on campus for

the first time since I graduated in 1982, I'm really impressed with how far Lawrence Tech has come in terms of its programs and buildings."

Don Reimer, associate director of the Lear Entrepreneurial Center, looks forward to getting Schulte more involved with the University.

"Steve is a very inventive, creative guy, who got very excited

about this piece of equipment," Reimer said. "We look forward to having him come back to campus as a speaker and getting involved with the LEGENDS alumni group."

▲CM

*Steve Schulte is capitalizing on the growing interest in "green" technology by promoting a device that makes hot-water boilers more efficient.*





*REACH founder Donald Stevens poses with seven of the orphaned girls selected to live in the new homes built by REACH volunteers this summer in Les Cayes, Haiti.*



of Architecture and Design, will also be instrumental in helping to identify and recruit students, and Don Reimer, director of the Lear Entrepreneurial Program, will connect alumni with the REACH program.

In Haiti, the students will work with people in the community at the Pwoje Espwa Sud orphanage located in the impoverished village of Torbeck. In this village, more than 600 children receive shelter and care, more than 1,200 children are provided with academic and vocational educations, and 3,000 meals are prepared and served daily. The children are under the care of Father Marc Boisvert of Pwoje Espwa.

Because the village is subject to flooding, the immediate need is to build elevated walkways at the orphanage in late 2009 or early 2010. In the second phase, the team will build nine new homes for the children. The student participants will be doing their own fund-raising and other preparation before they go abroad.

"This is a perfect opportunity to help an orphaned child acquire a decent and safe place to live," says Stevens, adding he hopes the Haitian project will be just the beginning of a long-term commitment to REACH at his alma mater.

Stevens and his wife, Andrea, have four children and reside in Virginia. For more information on REACH, visit [www.reach4children.org](http://www.reach4children.org). ▲CM

## Volcano expert alerts the world about potential disasters

From Vesuvius and Etna in ancient times to Mount St. Helen's in our own era, volcanoes have sparked our imagination and piqued our curiosity. Few forces of nature are more majestic, more awesome, more mysterious – and potentially more deadly.

Volcanoes are both a passion and profession for Robert "R.B." Trombley, AEEt'65, PhD, who has become one of the world's leading volcano experts. On a daily basis, he and his colleagues at the International Volcano Research Centre in Apache Junction, AZ, monitor more than 500 volcanoes around the world, including 24 in the United States.

An award-winning scientist, registered volcanologist, and author or co-author of six books on volcanoes, Trombley founded his center in 1980 near the Superstition mountains, about 45 miles east of Phoenix. "Our main forte is volcanic eruption forecasting," he explained. "Since 1998, we have been over 90 percent accurate in all the forecasts."

Forecasting has improved since 1998 thanks to Trombley's work. He redesigned the forecasting model to take into account factors that previously were not accounted for. "For example, we now account for the effects on gravitation of the moon and sun. These influences are extremely minor, but nonetheless we do encounter them," he said.

He also developed a proprietary computer software program called Eruption Pro 10.7, based on his book, "Forecasting of Volcanic Eruptions," which is used by other volcano centers around the world. He takes justifiable pride in the fact that he and his staff have saved countless lives over the years through accurate, up-to-the-minute data on volcanic activity. (His center's Website at [www.intlvrc.org](http://www.intlvrc.org) is updated daily.)

A native of England, Trombley came to the United States at age five and grew up in St. Clair Shores. He credits his professors at Lawrence Tech with launching him on his career in science. "They gave me the momentum and initiative and motivation to continue to do even bigger and better things," he recalls. "I'm very grateful for



*Robert Trombley*

that experience at Lawrence Tech."

In 2004, Trombley was selected as one of 10 internationally recognized experts for the Inter-Island Distant Learning Exchange Project. More recently, he has become involved with 21st Century Learning Productions, producing and appearing in documentary-type episodes on volcanoes and geology in general. He also has served as a technical advisor to the National Geographic Society on a TV documentary about volcanoes and is the winner of the Bausch & Lomb Honorary Science Medal.

An Air Force veteran and professor emeritus at DeVry University in Phoenix, he also teaches a course in volcanology at Central Arizona College. ▲CM



## Jubilee Society welcomes Class of 1959

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 1959 was inducted into the group at the annual Jubilee Society Brunch held on campus in April. Members of the class posing for a photo at the reunion event are (L-R in the back row) James Wheeler, BSIM'59; Charles Knight, BSIM'59; Albert Bayer, BSCvE'59; Kenneth Kisabeth, BSIM'59; William Bouteiller, BCvE'59 (DIT); Edward Jankowski, BSCvE'59; Jon Tincher, BSEE'59; and Glenn Noble, BSCvE'59. In the front row are Hayward York, BSIM'59; Thomas Allan, AIST'59; Carl Jacobi, BSEE'59; Gretchen Minnhaar, BSArE'59; David Dunham, BSCvE'59; Raymond Stocki, BSEE'59; Harrison Levy, BSME'59; and Russell Van Zantan, BSEE'59.



## Oldest returning alumni



The two oldest alumni at the 2009 Jubilee Society Brunch were both from the Detroit Institute of Technology. John Chanik, BSME'39 (DIT), (L) and Edward Lesniak, BSME'39 (DIT), celebrated their 70th college reunion.



The Class of 1949 celebrated its 60th reunion. The returning members are (L-R) Louis Schmidt, BSME'49; Sam Dabich, BSME'49; Len Hendricks, BSCvE'49; Bob Lemon, BSME'49; and Roy Heady, BSArE'49.



The largest cohort not celebrating a five-year reunion was from the class of 1951. Returning members are (L-R) in the back Delwin Lindh, BSBA'51; David Paver, BSEE'51; Walter McCoskey, BSME'51; John Meyer, BSME'51; and Ralph Chamness, BSME'51. In the front are Bill Richardson, BSME'51; Howard Weber, BSME'51; and James Clark, BSME'51.



## Rakolta, three alumni honored at 77th commencement

John Rakolta Jr., chairman and CEO of Detroit-based Walbridge, one of the country's largest construction firms, received the Doctor of Engineering, *honoris causa*, and delivered the address during Lawrence Technological University's 77th Commencement Exercises in May.

Lawrence Tech conferred degrees on 1,125 new alumni, making this one of the largest graduating classes in the University's history.

Walbridge specializes in the design, building, management, and real estate development of large-scale federal and industry-specific projects. The privately held 3,000-employee firm also serves the commercial, municipal, educational, and housing markets and is a world leader in building complex manufacturing facilities.

Rakolta started with Walbridge in 1971 and became chairman and CEO in 1993. He has overseen the company's 20-fold growth in size and its expansion into over 20 states and several foreign countries. He is also vice president of Munder Capital Management.

Extremely active in professional and community activities, Rakolta serves as chairman of New Detroit, Inc. and the Detroit Police Foundation. He is a cabinet member of the United Way for Southeast Michigan, an executive committee member of Detroit Renaissance and a board member of Focus: HOPE. He is a past president of the Detroit Area Council

of the Boy Scouts of America and several industry and professional groups.

Lawrence Tech also presented Alumni Achievement Awards to distinguished graduates Beverly Hannah Jones, BSAr'85, BA'r'88, MA'r'00; David Wilson, BSME'57; and Daniel Winey, BSAr'74, BA'r'75.

Hannah Jones is founder and principal of the Hannah Jones Group, one of only 10 architectural firms in the United States owned and operated by an African American female licensed architect. It provides core professional services, including architectural design, development planning and consulting, master planning, architectural consulting and interior design.

Her projects include Seldom Blues Supper Club in the Renaissance Center; Detroit Breakfast House & Grill in Merchants Row; Taft Elementary/Middle School and Schultz Middle School in Detroit; the water park expansion at Detroit's Chandler Park; Grand City Grill in the Fisher Building; and Tech One at Wayne State University.

Wilson has been chairman of the board of Spartan Motors Inc., based in Charlotte, Mich., since 2002. Spartan designs, engineers

and manufactures custom chassis and vehicles for the fire truck, ambulance, emergency-rescue, recreational vehicle, and specialty vehicle markets.

Spartan employs approximately 1,200 people at facilities in Michigan and three other states and reported sales of \$844.4 million in 2008. Last October, the U.S. military recognized Spartan Chassis employees for their critical role in the rapid production and deployment of the military's highest priority, Mine Resistant Ambush Protected (MRAP) vehicles. Spartan has helped produce more mine-resistant vehicles than any other U.S. manufacturer.

Winey is managing principal of the Pacific Northwest and Asia Region of Gensler, a global architecture, design, planning and consulting firm with over 2,500

professionals in 31 offices. He has been instrumental in opening 10 Gensler offices worldwide, including one in his hometown of Detroit. The firm has designed the world's second tallest building, now under construction in Shanghai, China.

Winey is a strong advocate of sustainable design in expanding markets. He has not only made Leadership in Energy and Environmental Design (LEED) accreditations a mandatory prerequisite in the U.S. offices he directs, he requires LEED guidelines to be standard practice in all the firm's Asia offices. ▲EP

*New graduates respond to cheers from their families and friends at Commencement Exercises held at Cobo Arena in Detroit in May.*



*Posing for a photo backstage prior to Commencement Exercises in May are (L-R) Lloyd Reuss, chairman of Lawrence Tech's Board of Trustees; Provost Maria Vaz; Beverly Hannah Jones and David Wilson, recipients of alumni achievement awards; John Rakolta Jr., who received an honorary degree; Daniel Winey, another alumni achievement award winner; and President Lewis N. Walker.*



# 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 spring 2010. Use the form in this section to share news about you!*

1933-59



**Howard L. Weber**, BSME'51, an active campus volunteer and a past member of the Alumni Association board, was a candidate for

a vacancy on the Farmington Hills City Council in 2008. A veteran of the U.S. Navy, U.S. Coast Guard, and Merchant Marines, Howard is a General Motors retiree and an active volunteer with the Farmington Area Goodfellows.

1960-79

**Ralph E. Deshetsy**, BSIM'64, was a candidate for a four-year seat on the North Branch Area Schools Board of Education. Ralph is the owner of Production Threaded Parts and the longest-serving trustee on the Lapeer County Community Foundation board, with 35 years of service.

**Donald J. Cox**, AMT'66, was honored by the Archdiocese of Detroit on the 30th anniversary of his ordination as a permanent deacon in the Roman Catholic Church. Donald, who currently serves at St. Cornelius Parish in Dryden, did his diaconal studies at Sacred Heart Seminary in Detroit and was ordained on June 9, 1979. A machine tool designer since 1962, Donald owns D&S Design Services Inc. and D&S Assembly Services Inc.

**Joseph R. Mathis Sr.**, BSEE'66, has joined Virtual Instruments of Scotts Valley, CA, as the first Virtual Instruments Fellow. The holder of eight U.S. patents, Joseph is a 30-year veteran of IBM and original architect of the Fibre Channel standard. At Virtual Instruments, he will help define the company's storage networking and virtualization technology strategy. In addition, he will work with the firm's Global 500 customers to assess and refine measurement criteria for large-scale virtual deployments.



**James P. Ryan**, BSArE'66, AIA, has been appointed chairman emeritus at JPRA Architects, a Novi firm specializing in commercial

retail architecture. Jim founded the company in 1978 with a staff of five. Today, JPRA is a 75-person firm with a nationwide client roster. In his new role, Jim will work as team leader on specific projects and serve as an advisor to the board of directors. He received the Alumni Achievement Award in 1976. Jim has served on the College of Architecture and Design's Advisory Board, the Architecture Alumni Cabinet from 1997-2001, and is currently serving as a director of the Alumni Association Board.

**Thomas J. Edwards**, BSEE'70, was elected as a senior associate at the Albert Kahn Family of Companies in Detroit. Serving as a project manager at Kahn for over a decade, Tom is a project team administrator in charge of the firm's planning and design process. One of his projects is a surgery center for St. John Medical Center in Macomb Township.

**James R. Grigsby**, BSAr'70, AIA, was promoted from president to chairman and CEO of JPRA Architects in Novi. Jim has been with the firm since 1983.

**Walter J. Pociask Jr.**, BSIM'70, was a candidate for the Grosse Ile Township Board of Trustees.

**Michael D. Belt**, BSAr'72, AIA, has joined the Lansing regional office of Hobbs+Black Associates Inc. Mike, a project manager at Ann Arbor-based Hobbs+Black with over 36 years of experience, has been involved with a wide range of projects including retail, corporate, educational, government, multifamily housing, industrial, and religious facilities. He also has extensive experience in senior living, specialized clinical care, and adult foster care facilities.

**Jeffrey R. Zokas**, BSAr'74, BA'75, a principal at Harley Ellis Devereaux in Southfield, was elected president of the American Institute of Architects Detroit (AIA Detroit). He will focus on increasing membership value and developing new and improved programs for members. Jeff also wrote an opinion column for the Detroit News on the political wrangling over the Cobo Center expansion and modernization project.

**Joseph J. Obidzinski**, BSAr'75, BA'77, AIA, a project architect with over 30 years of professional experience, joined the staff of Hobbs+Black Associates Inc. Joe will assist the Ann Arbor-based firm's retail studio as it continues to grow and take on new commissions.

**William J. Beitz Jr.**, BSAr'76, BA'77, was promoted to president at JPRA Architects in Novi. Bill has been with the firm since 1983.

**Alan Cobb**, BSAr'76, FAIA, LEED AP, the 2000 recipient of the Distinguished Architectural Alumni award and former member of the Architecture and Design Chapter of Lawrence Tech's Alumni Association, was named director of Sustainable Design at the Albert Kahn Family of Companies in Detroit. Alan has been involved in numerous award-winning projects since joining the firm in 1976, including the restoration of the Art Deco windows in the historic Argonaut Building in Detroit's New Center. The restoration was part of a \$136 million top-to-bottom renovation of the former General Motors Design Center by the College for Creative Studies.



**Joseph C. Veryser**, BSAr'76, AIA, associate dean of the College of Architecture and Design, received the President's

Award from the American Institute of Architects Michigan. The award honors architects who practice in the education or corporate field who have made exceptional contributions to the profession and their community. Formerly with Spectrum Strategies, a business unit of Harley Ellis Devereaux, Joe joined the Lawrence Tech faculty in 2005 and also continues his role as university architect, responsible for the coordination of the Campus Master Plan and other major capital undertakings.

**Steven G. Lomske**, BSAr'77, an architect and licensed builder who owns American Craftsman, was a candidate for a seat on the Northville Township Board of Trustees. He also recently wrote a guest column for the *Northville Record* on his proposal to turn the former Northville psychiatric hospital property into a hotel and conference center.

**Thomas R. Morgan**, BSAr'77, BA'78, AIA, has joined FTC&H's Grand Rapids office as a project manager.

**Paul D. Tonti**, BSAr'77, BA'78, a vice president with SmithGroup of Detroit, served as one of two lead architects on the MGM Grand Detroit casino and hotel. Paul and his fellow lead architect, Thomas Sherry of Hamilton Anderson Associates, were featured in a 2007 article in *Crain's Detroit Business* on the monumental project.

**James R. Godbout**, BSBA'78, was a candidate for the Wayne County Commission in the 12th District. Jim is a sales account manager for Rockwell Automation. He has been a member of the Westland City Council since 2000 and is currently serving as the council president.

**Zebedee Tolbert**, BSAr'78, BA'80, RA, LEED AP, was elected a senior associate at the Albert Kahn Family of Companies in Detroit. With 30 years of experience, Zebedee has been involved in numerous projects at Kahn, including the Henry Ford Health System's energy center in West Bloomfield.



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

## 1980-89

**Michael Darling**, BSAr'79, was hired to head the City of Lapeer's new stand-alone building authority. Mike previously worked for 20 years as head of the building department for the City of Oxford and another seven years as chief building inspector for the City of Pontiac.



**James L. Luckey**, BSAr'79, BA'82, has joined SHW Group's Berkley office as director of design. The firm specializes in K-12 and higher education projects. In a feature article in the *Oakland Business Review*, Jim noted that "stewardship to our environment is one of the most important things that we do."

**Kevin P. Malover**, BSMA'79, joined Chicago-based private equity firm GTCR as chief information officer. Kevin most recently served as chief technology officer for Barack Obama's presidential campaign.



**Victor A. Saroki**, BSAr'79, BA'80, HD, FAIA, president of Victor Saroki & Associates Architects PC in Birmingham, was named to Lawrence Tech's board of trustees in 2008. Victor was awarded the University's Young Architect of the Year Award in 1994, and in 1998 he received the Distinguished Architecture Alumni Award. His work has been recognized by over 50 design awards, and his Birmingham-based firm was named by AIA Michigan as the 2007 Firm of the Year. He received an honorary doctorate in 2008.

**Kevin J. Veen**, BSAr'79, RA, was named a senior associate in the Retail Studio at Hobbs+Black Associates Inc. in Ann Arbor. With over 30 years of experience, Kevin was previously a principal/lead technical architect and a senior project architect for two established Michigan firms.

**Daniel Kozakiewicz**, BSCE'80, president of Three Rivers Corp. in Midland, was elected chair of the Associated Builders and Contractors of Michigan board of directors.

**Robert S. Mihos**, BSIM'80, is the conservation programs manager for the Holland (MI) Board of Public Works. He was previously director of facilities planning and management for Kent County and director of facilities for Johnson Controls Inc.'s Automotive Systems Group-Interiors.

**Jeff S. Augenstein**, BSBA'81, was promoted to vice president at GCC Serving Systems, a Southfield-based mortgage servicing provider. Jeff administers the firm's daily operations and software development. He was previously GCC's director of software services.

**Mark A. Farlow**, BSAr'81, BA'82, MA'09, is the 2009-2010 Chair of the College of Architecture & Design Alumni Association. As chair, he addressed graduates and their families at the College's annual brunch. Mark also was appointed to the board of directors of the Birmingham Bloomfield Art Center, where he taught three courses last spring. This fall, Mark begins a one-year appointment teaching in the Masters Studio at the University of Detroit-Mercy. Mark has been with Victor Saroki & Associates Architects PC in Birmingham for nearly 18 years.

**Richard C. Johnson**, BSEE'81, was appointed by Wixom-based Xspect Solutions/Wenzel as its new regional sales director for the northeast region. He will be responsible for sales in Maine, Vermont, New Hampshire, Massachusetts, Connecticut, and Rhode Island.

**Michael J. Krebs**, BSAr'82, AIA, joined Yamasaki Associates Inc. in Troy as principal of architecture. He was formerly a principal at Ford & Earl Associates.



**Deirdre Jimenez**, BSAr'83, BSIA'85, the managing principal for the Detroit and Columbus, OH, offices of Jacobs Engineering Group, was named the 2008 recipient of the Distinguished Architecture Alumni Award at Lawrence Tech. A recognized expert in achieving continuous improvement in service delivery systems, Deirdre is credited with 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. 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.

**K. Lawrence Dominique**, BSEE'84, vice president of the product planning and strategy department at Nissan North America Inc., was profiled in *Automotive News* and the *Murfreesboro (TN) Post*. Currently based in Nashville, Larry is responsible for advanced planning and product planning for North American Nissan and Infiniti vehicles. He oversaw the creation of the Titan pickup truck and Infiniti QX56. Larry was honored with the Nissan Research and Development President's Award in 1995 and 1997.

**Robert J. Porter**, BSAr'84, BSIA'84, AIA, joined SHW Group, an architecture, planning, interior design, and engineering firm in Berkley, as a project architect.

**Laura M. Slenzak**, BSMCS'84, BSEE'85, is one of only two women currently playing in the Labatt's Hockey Detroit Lawyers League. In an article published in the *Detroit Legal News*, Laura said earning her undergraduate degree from Lawrence Tech and studying law at the University of Detroit Mercy helped her make an easy transition into the male-dominated sport of hockey. Laura is an intellectual property attorney at ROSS Controls in Troy and a past director of Lawrence Tech's Alumni Association.

**Wayne Visbeen**, BSAr'84, BA'86, is a Grand Rapids-based architect and interior designer whose exceptional skills in creative drawing have earned him an international reputation. According to the *Grand Rapids Press*, Visbeen tackled the interior design of the retail stores for the Metropolitan Museum of Art in New York, the Louvre in Paris, and several other museums. His resume also includes the retail design, layout, and merchandising for Martha Stewart's Kmart line.



**Leslie Lynch-Wilson**, BSIA'85, received "A True Woman of Distinction" award from the Wayne County

Commission in honor of Women's History Month in 2009. Laura was honored for her historic preservation efforts with the Lincoln Park Preservation Alliance and for her work with the Fort-Visger Farmer's Market.

**Phillip R. Whisman**, BSME'85, was named president of the Standex Engraving Group, a division of Standex International Corp. in Salem, NH. He was previously with TRW Inc., one of the world's 10 largest automotive suppliers.

**Kevin Akey**, BSAr'86, co-owner of AZD Associates Inc. in Bloomfield Hills, achieved a long-held dream in 2008 when he completed three years of work on his family home on Union Lake in northern Oakland County. Kevin and his wife, Michelle, and their three children – two born during the construction process – were featured in an article in the *Detroit News*.

**Alan S. Boyd**, BSME'86, MBA'08, is vice president of operations at Troy-based Radar Safety Technologies LLC. Founded in 2006, the company introduced its FrontAlert collision alert system to the market last year. Alan was previously a commodity business specialist for electric and chassis systems at Ford Motor Co.



**Robert L. Stempien**, BSBA'86, AIA, a 27-year veteran of the architecture and construction industry, was named

senior director of business development at Barton Malow Co. in Detroit. In his new role, Stempien provides business development support for the firm's K-12 and Higher Education groups, National Sports and Specialty Projects divisions, and the Ohio and Chicago regional offices.



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

**William R. Anderson**, BSCE'87, is the founder of Doubletake Studios, a graphic, video and Web design firm in Plymouth that celebrated its 15th anniversary this year. The firm designs Websites, employee training programs and videos, product packaging, and marketing tools such as commercials, magazines, brochures, posters, and billboards.



**Mark Nickita**, BSAr'87, BA'89, MA'01, AIA, NCARB, served as 2008 president of the American Institute of

Architects Detroit (AIA Detroit). Mark is president and co-founder of Archive Design Studio in Detroit and a past member of the Architecture and Design Chapter of Lawrence Tech's Alumni Association.



**Kirk T. Steudle**, BSCE'87, PE, director of the Michigan Department of Transportation

(MDOT), was the subject of a cover story in the Detroit Regional Chamber's *Detroiter* magazine. In the article, Kirk outlined the various plans under consideration to wean Michigan from its reliance on state gasoline tax revenues as the primary source of funding for its transportation infrastructure. Kirk was named MDOT director in 2006. He received Lawrence Tech's Alumni Achievement Award in 2008.

**Lisa Weaner**, ADP'87, BSBA'90, was promoted to vice president of research operations at Maritz Marketing Research in Maumee, OH. Lisa has 18 years of experience in the automotive research industry. She was previously director of research operations for the firm.

**Bruce A. Bethuy**, BSAr'88, a self-employed builder, was elected to a second four-year term on the Ferndale School Board. Bruce says he is proud of Ferndale's new University High School, a joint venture with Lawrence Tech that prepares students for careers in the automotive industry.

**Cheryl L. Gregory**, BSCE'88, PE, was appointed vice president at Spalding DeDecker Associates Inc., a Detroit-based civil engineering, landscape architecture, and surveying firm.

**Gina Van Tine**, BSAr'89, BA'94, and **Ken Van Tine**, BSAr'85, BA'86, changed the name of their company from Van Tine/Guthrie Studio to inForm Studio. Based in Northville, inForm Studio has satellite offices in New York City and Myrtle Beach, SC.

## 1990-99



**David Gorsich**, BSEE'90, was named chief scientist at the U.S. Army Tank Automotive Research,

Development and Engineering Center (TARDEC) in Warren. In this role, David serves as a technical assistant and will help TARDEC Director Grace M. Bochenek in shaping a viable and innovative long-term research program.

**Brett S. Hinds**, BSME'90, is the advanced engine design and calibration manager for EcoBoost, the newest and most advanced engine technology in the Ford Motor Co. lineup. Brett, who has been involved in engineering since he was 16, has spent most of his career with the automaker in power-train development.

**Keith D. Kosik**, BSAr'90, BA'91, was promoted to vice president at TSSF Architects Inc. in Saginaw.

**Edward Mackowiak**, BSAr'90, BA'92, AIA, NCARB, joined Ann Arbor-based Hobbs+Black Architects as a project architect specializing in retail. He has 25 years of professional experience working with various leading architectural firms in Michigan.

**Stanley E. Cole**, BSAr'91, LEED AP, was named a principal at Neumann/Smith. Since joining the firm in 1998, Stan has managed such notable projects as the Interdisciplinary Learning Center at Ferris State University, the new headquarters for MEEMIC Insurance Co., the Detroit Science Center expansion and renovation, and the Holocaust Memorial Center.

**Margaret R. Murdock**, BSEE'92, was named executive director of automated systems and controls at Jervis B. Webb Co. in Farmington Hills. She is responsible for leading all aspects of the material handling firm's electric controls, Automatic Guided Vehicle product line engineering, and customer service.

**Jean Pierre Nassaux**, BSCE'92, PE, was appointed an associate at Jones & Henry Engineers Ltd. in Toledo, OH. He is the director of Structural Engineering at the environmental engineering firm.

**Steve Orlando**, BSCE'92, was promoted from senior project manager to project executive at Skanska USA Building Inc. of Portage. Steve has extensive experience in school, health-care, and biopharmaceutical construction.

**Gary A. Yaros**, BSAr'92, was re-elected to a second term on the Pinconning Area Board of Education. Gary manages Pinconning Metals, a family business. He serves as the board's treasurer.

**Ronald A. Bargy**, BSCE'93, joined Synergy Group Inc. in Bloomfield Hills as project manager. Ron's most recent projects include the Motor City Casino in Detroit, MJR Theater Complex in Sterling Heights, and a major project for Ford Motor Co. in Romeo.

**Kathleen Thompson Quick**, MBA'93, is global product marketing manager at Ford Motor Co. Kate has more than 20 years automotive experience in marketing, strategy, and manufacturing. Most recently she was responsible for the evolution of the next generation of Ford, Lincoln, and Mercury large sedans in her role as the automaker's Large Car Product Marketing Manager.



**Jeffrey L. Baxa**, BSCvE'94, MBA'05, was promoted to vice president, preconstruction, at Barton Malow Co. in Southfield. In his

new role, Jeff oversees the 67 professionals who perform preconstruction and architectural/engineering services, including estimating, planning, scheduling, and design.

**Blake A. Elderkin**, BSAr'94, BA'95, was elected a senior associate at the Albert Kahn Family of Companies in Detroit. An architect with 13 years of experience, Blake was awarded AIA Detroit's Young Architect of the Year for 2007.

**Eric Heiderer**, BSAr'94, BFAAI'95, owner of the architecture firm Polyarch in Clinton Township, joined the city of New Baltimore's Design Committee. He is providing renderings that will help downtown business owners picture what a new facade can do for their storefronts.

**John V. Hrovat**, BSAr'94, BA'95, OAA, LEED AP, was elected a senior associate at the Albert Kahn Family of Companies in Detroit. John manages the firm's design resources. His recent work includes the Shain Park redevelopment in Birmingham.

**Sandra Little**, BSAr'94, MA'98, is COO of Centric Design Studio in Southfield, a firm she and two friends started in 2002 as a part-time gig while they worked their day jobs in architecture. When they were laid off, they jumped into it full-time. The other principals in the minority-owned start-up are **Damon Thomas**, BSAr'95, and Christopher Bruner.

**David C. VanderKlok**, BSAr'94, BA'97, AIA, founder of Studio [intrigue] Architects in Lansing, received the Young Architect Honor from the American Institute of Architects' Mid-Michigan chapter (AIA Mid-Michigan). The award is given to an architect under the age of 40.

**LaDonna M. Conley**, BSBA'96, CIC, CPCU, joined Cobb-Hall Insurance Co. as a business specialist. She is a licensed agent for property, casualty, life, and health insurance.

**John S. Ezzo**, BSBA'96, CBSE, is founder and president of his own company, New Image Building Services, based in Mount Clemens. John traces his entrepreneurial career to the encouragement of Don Reimer, a Certified Management Consultant and president of the Small Business Strategy Group. Don is an adjunct faculty member at Lawrence Tech.



## 2000-09

**Keith J. Kohler**, BSAr'96, married Tara Rondy on Jan. 24, 2009, at the Kauai Marriott Resort in Hawaii. Keith is with John D. Kohler Architect P.C. in Monroe. The couple live in Plymouth.

**Misty D. Patterson**, AIMET'96, BSET'99, MBA'09, was elected to the Oak Park Board of Education, edging out an incumbent.



**Tracey D. Taylor**, BSIA'96, IIDA, an interior designer with Neumann/Smith Architecture in Southfield, earned LEED

(Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Agustin V. Arbulu**, MBA'97, an associate professor at Northwood University's Richard DeVos Graduate School of Management, was awarded the Northwood University Samuel R. Marotta Faculty Ethics Award. The award is presented to the full-time faculty member who best demonstrates an interest in exploring and teaching ethical issues of national and international business.

**Adam L. Clark**, BSAr'99, AIA, LEED AP, joined the staff of Integrated Architecture in Grand Rapids. Adam also teaches graphic design at Kendall College of Art & Design.

**James F. Kriewall**, BSEE'99, was a candidate for the Democratic nomination in Michigan's 11th Congressional District.

**Nipa Shah**, MSIS'99, president of Jenesys Group LLC in Novi, an online marketing and Website development company, launched the Michigan India Chamber of Commerce. She envisions the Chamber as a networking organization to benefit the Asian-Indian community in business and other areas. Nipa grew up in India and came to the United States in 1985.

**Antoine Burks**, BSCS'00, an employee of General Motors in Atlanta, married Kristin Moore, an employee at WCNC-TV in Charlotte, NC, in a ceremony at the Pine Knob Mansion in Clarkston.

**Jaimelyn Manipula**, BSAr'00, joined Neumann/Smith Architecture in Southfield as a project designer.

**David Milligan**, BSAr'00, MAR'03, AIA, an architect with Fanning Howey in Novi, earned LEED (Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Eric Biller**, BSAr'01, MAR'05, married Michelle Rae Clark. The couple reside in Grand Rapids.



**Heather M. Buffone**, BSAr'01, recently passed the National Council for Interior Design Qualification Examination and earned the prestigious NCIDQ certification. Heather works for Lindhout Associates Architects AIA PC.

**Diane Ruiz Cairns**, CIMBA'01, a graduate program developer and professor at Lawrence Tech, and **Rosemary Bayer**, CIMBA'03, formerly of Sun Microsystems, Inc., are two of three co-founders of ardentCause L3C. Their company will offer technology products and business methods to increase nonprofit operational effectiveness, as well as consulting services to strengthen teams and enable each nonprofit to more easily carry out its mission. Bayer was a 2007 Alumni Achievement Award winner. Cairns in secretary of the Lawrence Tech Alumni Association board.

**Tracy Petrella**, BA'01, BFAAI'01, MAR'06, an architect with Fanning Howey in Novi, earned LEED (Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Matthew A. Gramlich**, BSME'02, MSME'04, an engineer at Ford Motor Co., and Lisa Hagele have married.

**Tim Jones**, BFAAI'02, BSAr'02, is a computer graphics supervisor at Blur Studio, an Oscar-nominated visual effects, animation and design studio in Venice, CA.

**Amber (Battle) Kalinowski**, BSAr'02, MAR'05, and David Kalinowski have married.

**Ian L. Natzmer**, BSTC'02, CIMBA'07, is lead software engineer at TC Digital Games LLC in San Diego.

**JoHanna Timmer Parrow**, BSME'02, CIMBA'07, is lead project engineering with Faurecia Automotive Seating in Troy. She was recognized in 2007 as an "Outstanding Young Engineer" by the Engineering Society of Detroit.

**Michael Shifflett**, BSEE'02, and Amy Nicole Rice have married. Mike is employed at Automated Solutions in Shelby Township.

**Anthony Tyll**, BSME'02, MBA'07, and Megan Elizabeth Guzman have married. Anthony is an automotive engineer at Chrysler.



**Hajj E. Flemings**, MBA'03, is managing partner of Broken Chains Design Group, a graphic design group in Canton.

He is also the author of "The Brand YU Life" and a speaker with the Brand YU Life LLC, which specializes in personal and corporate brand management consulting, training, and seminars.

**George M. Hauch**, BSAr'03, and Monica Ann Teune have married. George is a developer/architect and a student in the MBA program at DePaul University in Chicago.

**Paul C. Kauffman**, MBA'03, was named director of medical programs at Lansing-based Accident Fund Insurance Company of America. He was previously director of Third Party Administration operations.

**David S. Barduca**, BSAr'04, earned Leadership in Energy and Environmental Design (LEED) accreditation with the U.S. Green Building Council. David works for Hobbs+Black Associates Inc. in Ann Arbor.

**Tiffany Cole-Stitt**, AUS'04, BSBM'05, joined the Charles Stewart Mott Foundation as a program assistant for the Flint-area team.

**Steven J. Jelinek**, BSAr'04, of Neumann/Smith Architecture in Southfield earned Leadership in Energy and Environmental Design (LEED) accreditation from the U.S. Green Building Council.

**Jeffrey J. Ringvelski**, BSAr'04, a corporate architect and project coordinator, was a candidate for a four-year term on the Port Huron Area School District board.

## Get Involved

The Alumni Association at Lawrence Tech has a lot going on this year and we want **YOU** to be part of it!

This is a great time to network with fellow alumni and reconnect with your alma mater.

- Attend an Event -
- Attend a Meeting -
- Join a Committee -
- Send Us Your Ideas -

There are many ways to get involved. Come see what we're all about and how we can be of service to you!

**Lawrence Tech alumni**

There are many ways to keep in touch with us...

Visit our website at: <http://ltu.edu/alumni>

Here you will find information about our programs and events as well as our organization. You can even view and download a copy of our newly updated bylaws.

Join Our Group on LinkedIn!  
**Lawrence Tech Alumni**  
And look for our page on Facebook.

You can also contact:  
Mary Randazzo 248.204.2309  
mrandazzo@ltu.edu

OR  
Debbie Farina 248.204.2307  
dfarina@ltu.edu

We hope to hear from you soon!

## Stay Connected



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

**Ryan Garone**, BSAr'05, LEED AP, is with Design Plus in Grand Rapids. He was featured in an article in *Grand Rapids* magazine on the firm's initiative to become a "green" company.

**Jerome R. Oswald**, BSET'05, a gunnery sergeant in the Marine Corps Reserve, and fellow Marines from the 24th Marine Regiment, 4th Marine Division, returned from a deployment to Latin America where they participated in Partnership for Americas 2008. The month-long training operation took the Marines to the Dominican Republic, Uruguay, Brazil, Colombia, and Peru.

**Mindy Tangney**, BSAr'05, joined TowerPinkster, a West Michigan architecture and engineering firm, as an architectural project coordinator.

**Andrea Zammitt**, BSAr'05, was featured in a "Focus: 20 In Their 20s" profile in *Crain's Detroit Business* for her role as project coordinator for the renovation of the Detroit Recreation Department's Northwest Activities Center.

**Joseph M. Lapinski**, BSME'06, EIT, joined SHW Group in Berkley as a mechanical engineer.

**James P. Petras**, BSAr'06, joined SmithGroup Inc. in Detroit as an architect. He was previously a designer for Nudell Architects in Farmington Hills.

**Daniel Poinsett**, BSPH'06, an employee at Synereering Group in Farmington Hills, married Mona Zaban. The couple lives in Dearborn Heights.

**Molly M. Tyler**, MBA'06, married Jason Richard Sweeney in Shelby Township. She is employed by Ford Motor Co.

**Brooke Bach**, BSAr'07, joined the architectural staff of GMB Architects and Engineers of Holland.

**David Center**, BSME'07, is a volunteer with Regnum Christi, a mission group that provides hurricane relief and medical aid to developing countries.

**Shaun Gignac**, BSAr'07, MAR'09, and design partner **Will Marengo**, BSAr'07, MAR'09, were honored with third place in an international student design competition held by the Association of Collegiate Schools of Architecture. Students were challenged to design a museum and library addition to the historic Cranbrook Institute in Bloomfield Hills.

**David L. Jones**, MBA'07, was named executive director of the Petoskey-Harbor Springs Area Community Foundation. After working at the World Bank in Washington, D.C., Dave joined the Community Foundation in 2000 as the program officer.



**Brittany Kennedy**, MAR'07, a 3D modeling specialist and CAD draftsman for GPSL Architects P.C. in Vail, CO, earned LEED (Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Santosh Nair**, MSCS'07, joined Dunnhumby USA as a data architect. He worked previously for Fidelity Investments as a principal data analyst.

**Emillie Naismith**, BSAr'07, MAR'09 an architectural intern with TMP Architecture Inc. in Bloomfield Hills, earned LEED (Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Bob VanderHoeven**, BSME'07, UCertESk'07, is an associate engineer with Cessna Aircraft Co. in Wichita, KS.

**Lucas Ewalt**, BSEE'08, is a firmware development engineer at Hewlett-Packard in Houston.



**Doris Grose**, MAR'08, an architectural intern with TMP Architecture Inc. in Bloomfield Hills, earned LEED (Leadership in Energy and Environmental Design) accreditation from the U.S. Green Building Council.

**Ryan P. Kidd**, ACET'08, BSCM'08, and Jenna M. Brown have married. Ryan is a project engineer in the Detroit office of DeMaria Building Co.

**Steven G. Nielsen**, BSAr'08, is with SHW Group, an architecture, planning, interior design, and engineering firm in Berkley.

**William A. Schumaker**, BSPH'08, was awarded a research fellowship at the University of Michigan where he will pursue his doctoral studies in nuclear engineering.

**Galina Mihaylova**, MAR'09, joined SHW Group, an architecture, planning, interior design, and engineering firm in Berkley.

## DIT

**Melvin E. Byrd Sr.**, BBA'56, chairman of the board of directors of Don Bosco Hall, a private nonprofit human service agency in Detroit, was honored by the Michigan Chronicle as one of its "Men of Excellence." A native Detroiter, Melvin was a leader in Michigan's civil and human rights movement for more than 50 years. He has served in various executive positions for 27 years with the Michigan Department of Civil Rights and is a life member of the Detroit Branch NAACP. For several years he also served as executive director of the Detroit Association of Black Associations.



**Tarik S. Daoud**, AEng'60, is one of six recipients of the first-ever National Award in Citizen Diplomacy. The U.S. Center for Citizen Diplomacy presented the awards during a ceremony at the Smithsonian American Portrait Gallery in Washington, D.C., in 2008. The Bloomfield Hills resident was nominated for the honor by the International Visitors Council of Metropolitan Detroit (IVC).

## 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](mailto:alumni@ltu.edu). You may also submit Alumni Notes online at [www.lawrencetech.net/](http://www.lawrencetech.net/). Tell us about honors, promotions, marriages, appointments, and other activities.  New Address?

Name \_\_\_\_\_

Street \_\_\_\_\_

City State ZIP \_\_\_\_\_

Home Phone (     ) \_\_\_\_\_

Email \_\_\_\_\_

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.*

**Michael D. Bifano**, BAeE'35, of Santa Barbara, CA, Mar. 6, 2009. Mr. Bifano was among Lawrence Tech's first varsity athletes and was particularly accomplished in track. During a long and distinguished career in a variety of positions with General Motors Corp., Mr. Bifano served as lead staff aeronautical engineer for Lunar Exploration Systems for the Apollo Space Mission. As lead engineer, his team designed a lunar cargo transport vehicle, a multi-purpose construction vehicle and an engineering test vehicle for the space mission. After retiring from GM in 1971, he embarked on a successful career in real estate. In 2008, Mr. Bifano wrote "A 70-Year Love Story" about his life with his wife Rosalie, whom he married in 1941, for his hometown newspaper. In addition to his wife, Mr. Bifano was survived by three sons and a daughter. His brother, Natale, BAeE'37, died in 2006.

**Marvin G. Schaar**, BME'36, San Dimas, CA, Nov. 14, 2008. He was survived by four children.

**George Canvasser**, BSME'43, of Las Vegas, April 19, 2009. Mr. Canvasser was a mechanical engineer and licensed registered professional engineer in New York. His large-scale building projects included the American Express corporate headquarters, the New York University Medical Center expansion, the Lincoln Medical Center, and several pavilions for the 1964 World's Fair. During World War II he was captain of a Landing Ship Tank and supporting amphibious operations in the Pacific. Mr. Canvasser was survived by his wife, Ruth, a son, and a daughter.

**John L. Drake**, BME'43, of Rockville, MD, June 1, 2009. Mr. Drake was a mechanical engineer with the Defense Department from 1946 until his retirement in 1977. He was survived by his wife, Rosemary, a son, and a daughter.

**Jack Stone**, BEE'43, of West Bloomfield, March 27, 2009. During his 36-year career at Ford Motor Co., Mr. Stone was an electrical engineer in the Research and Development Department where he specialized in manufacturing processes. A test he developed to determine how automobile paint rusts was patented by the automaker and earned Mr. Stone an award from the Room Paint Society. He also served as an electrical engineer on the Manhattan Project at Los Alamos, NM, during World War II. Mr. Stone was survived by his wife, Edith.

**Donald H. Nelson**, BME'44, of Northville, Sept. 15, 2008. Mr. Nelson graduated from Lawrence Tech after designing tanks during World War II in Paterson, NJ. He then worked briefly for General Motors Corp. before embarking on a 44-year career with Chrysler Automotive as a mechanical/manufacturing engineer. After retirement, he joined the Lawrence Tech faculty and wrote a textbook on manufacturing engineering. Survivors include two sons and a daughter.

**Peter M. Amatangelo**, BME'47, of Northville, Dec. 20, 2008. A retired Chrysler engineer, his survivors include two sons.

**Martin S. Florczak**, BSIE'48, of Sterling Heights, May 18, 2009. Mr. Florczak was a retired senior project engineer at Dana Corp. He was survived by his wife, Rita, a son, and a daughter.

**Lampton J. Cardwell**, BSME'49, of Grosse Pointe, Nov. 16, 2008. He was survived by two children.

**Mark L. Nagel**, BSCvE'49, of Arlington, VA, Nov. 18, 2008. Mr. Nagel was an Air Force colonel and civil engineer who served in three wars before retiring in 1974. As an Army Air Forces bomber pilot during World War II, he participated in the Normandy invasion. He joined the Air Force after it became a separate military branch in 1947 and saw combat as a pilot during the Korean War. During the Vietnam War, he was commander of a civil engineering squadron that built roads and bases. His final active-duty assignment was at the Pentagon, with Air Force engineering headquarters. His military decorations included the Legion of Merit, three awards of the Distinguished Flying Cross, and 15 awards of the Air Medal. After his military retirement, Mr. Nagel spent several years as a civil engineer with the U.S. Department of Transportation. He was survived by his wife of 56 years, Patricia.

**Robert C. Hagemann Sr.**, BSEE'50, of Farmington Hills, Sept. 3, 2008. Mr. Hagemann took advantage of the GI Bill to get his degree at Lawrence Tech after serving in the signal corps in Italy during World War II. He worked at IBM and Vickers prior to an over 22-year career at Burroughs Corp. (later Unisys) in Detroit. Survivors include three daughters and a son.

**Harold J. McMenemy**, BSIE'50, of Lexington, May 6, 2009. He was a retired engineer at Chrysler Corp.

**Robert E. Miner**, BSEE'50, of Southfield, May 10, 2007. Mr. Miner was a retired district manager for Michigan Bell Telephone Co. Survivors include a son and a daughter.

**Russell E. Vaillancourt**, BSME'50, of Bradenton, FL, Nov. 5, 2008. Mr. Vaillancourt was a retired design engineer for General Motors. He was survived by his wife of 57 years, Joan, a son, and a daughter.

**Donald E. Weddle**, BSCvE'50, of Orchard Lake, Dec. 8, 2008. A Ford Motor Co. retiree, Mr. Weddle was survived by his wife, Kathryn.

**Clarence H. Wheeler**, BSEE'51, of Sterling Heights, April 20, 2009. He was survived by three sons and a daughter.

**Wesley R. Parker**, BSME'52, of Clinton Township, Oct. 24, 2008. Mr. Parker was retired from Vickers Inc. He was survived by his wife, Merrilyn, a son, and three stepchildren.

**Carol D. Rose**, BSME'52, of Imlay City, Mar. 19, 2007. Mr. Rose was a retired mathematical statistician at the U.S. Tank Automotive & Armaments Command. He was survived by two daughters.

**Henry C. "Hank" Schreiber**, BSIE'52, of Williamsburg, July 5, 2009. After service in the Army during World War II, Mr. Schreiber worked as an engineer for General Motors before joining Chrysler. He was a manager of product engineering at Chrysler when he retired after 25 years of service. He was survived by his wife, Joyce, two children, and two stepchildren.

**Emeral L. Dietz**, ARACT'53, of Oscoda, Oct. 27, 2008. After his retirement, Mr. Dietz was a member of the Model Airplane Club. He was survived by three daughters.

**Chester A. Cross**, BSME'54, of Davison, May 29, 2009. A World War II veteran, Mr. Cross worked at Ford Motor Co. for 40 years before his retirement. He was survived by three sons and two daughters.

**Donald W. Dancy**, BSME'55, of Clearwater, FL, Dec. 8, 2008. Mr. Dancy spent most of his career as an executive with Chrysler and Volkswagen. He was survived by his wife of 58 years, Joyce, a son, and two daughters.

**Gerald J. Lonergan**, BSCvE'55, of Chula Vista, CA., Oct. 14, 2008. Mr. Lonergan operated Lonergan Financial Consulting after retiring from his position with San Diego County in California. He was survived by his wife, Betty, four daughters, and two sons.

**James L. Donahue**, BSIE'56, of Wolverine Lake, Nov. 9, 2008. He was survived by his wife, Pearl, and three children.



# I N M E M O R I A M

**Chester J. Gieldowski**, BSME'56, BSIE'60, of St. Clair Shores. Mr. Gieldowski was a Ford Motor Co. retiree.

**Gerald F. Leppek**, AEET'56, of West Bloomfield, June 26, 2008. A Ford Motor Co. retiree, Mr. Leppek was survived by his wife, Frances.

**Robert W. Hack**, AEET'57, of Port Charlotte, FL, Oct. 15, 2008. A retired DTE Energy employee, Mr. Hack was survived by two children.

**Robert W. Johnson**, ARACT'58, of White Lake, Mar. 12, 2002. Mr. Johnson was survived by his wife, Maria, a son, and a daughter.

**James B. Jones**, AMT'58, of Warren, Jan. 26, 2009. Mr. Jones was survived by his wife, Geraldine, and five children.

**Raymond J. Brooks**, BSME'59, of Southfield, Sept. 12, 2008. After a lengthy military career as a fighter pilot, Mr. Brooks retired as a lieutenant colonel of the U.S. Air Force and the Michigan Air National Guard. Later in his aviation career, he was a corporate pilot for General Motors Corp. In 1964, Mr. Brooks began his commercial flying career with United Airlines, retiring in 1989 as a captain who had flown the 747, 737, 727, DC-8, DC-10, DC-7, DC-6, and Viscount aircraft. In recent years he enjoyed flying a restored Harvard T-6 with his friends. Mr. Brooks was survived by his wife, Anita, and five children.

**Robert D. Shomo**, BSME'59, of Milford, June 9, 2009. Mr. Shomo worked at Ford Motor Co.'s Research and Development Lab in Dearborn for many years. He was survived by his wife, Louise, and two daughters.

**Marvin C. Tack**, BSEE'59, of Saginaw, July 9, 2009. Mr. Tack was employed in technical support at Square D for 40 years until his retirement in 1993. He was survived by four daughters and a son.

**John H. Chamberlin**, BSIM'60, of Mount Dora, FL, Oct. 4, 2008. Mr. Chamberlin began his career with General Motors as an international marketing manager. After his retirement, he worked as a consultant for Butcher Industries for a year. He was survived by his wife, Monica, two sons, and a daughter.

**William R. Rice**, BSME'60, of Pigeon, July 9, 2009. Mr. Rice was a retired executive at Chrysler and an Army veteran who served in the Korean War. He was survived by two sons and a daughter.

**Donald R. Taylor**, ABCT'61, of Bellaire, TX, March 1, 2009. Mr. Taylor was vice president/general manager of Hi-Way Equipment Co. in Houston. He semi-retired in 1997 but continued to work for the company on special projects on a part-time basis. He was survived by his wife, Dottie, two sons, and two daughters.

**Nicholas Voytovich**, BSEE'61, of Livonia, Jan. 22, 2009. Mr. Voytovich, a Chrysler retiree, was survived by his wife, Pauline, and a daughter.

**David G. Miller**, AEET'62, of Houghton Lake, Aug. 15, 2008. As a petty officer during the Korean War, Mr. Miller was the first documented Navy SeaBee lineman to complete the Deep Sea Divers course and was instrumental in building U.S. Naval stations in North Africa and Cuba. After his honorable discharge, he spent the next 40 years with the Detroit Edison Co. until his retirement as an overhead transmission lines supervisor. Survivors include two sons and two daughters.

**Dave Seaman**, BSBA'62, of St. Clair Shores, Dec. 18, 2008.

**Sherman J. Butler**, ABCT'63, of Macomb, Sept. 27, 2008. Mr. Sherman was survived by his wife, Christine, two daughters, and a son.

**Edgar F. Pengelly**, AIST'64, of Brighton, March 28, 2009.

**A. Warren Schultz**, BSME'66, of Sterling Heights, Mar. 4, 2008. Mr. Schultz, a U.S. Air Force veteran, retired from Eaton Corp. after 39 years as a mechanical engineer. He was survived by his wife, Ruth, three sons, and a daughter.

**Antonio Serra**, ABCT'66, of Bloomfield Hills, Oct. 12, 2008. As owner/architect at Serra & Associates, Mr. Serra designed hundreds of buildings in Metro Detroit. He was survived by his wife, Suzanne, and two daughters.

**Patrick H. Sevon**, BSIM'67, ADPT'76, of Spring Hill, FL, Nov. 6, 2008. Mr. Sevon was a computer specialist for the General Accounting Office of the U.S. government. He was survived by his wife, Joan, two sons, and a daughter.

**Frederic J. Kluska**, BSIM'68, of Warren, Oct. 7, 2008. A self-employed architect, Mr. Kluska was survived by two sons and a daughter.

**Bailey B. Ragsdale**, BSIM'69, of Tampa, FL, Aug. 8, 2008.

**William B. Dunneback**, BSIM'71, of Chesterfield, Sept. 17, 2008. Mr. Dunneback retired in 1999 after 35 years with General Motors. He was survived by his wife, Mary, and three daughters.

**Paul T. Novak**, BSCE'72, of Saginaw. Mr. Novak was employed at DiClemente-Siegel Design for 24 years as a professional engineer. Survivors include his wife, Barbara, two daughters, and a son.

**James A. Fowler Sr.**, BSME'75, of Au Gres, May 27, 2009. Mr. Fowler, a Vietnam veteran, was a retired sales engineer at Ann Arbor Machine Co. He was survived by his wife, Jane, four sons, and a daughter.

**Joe F. Malinouski**, BSA'76, of Clawson, Sept. 2, 2007.

**Lawrence Bethe**, AEET'80, BSIM'85, of Royal Oak, April 4, 2009. Mr. Bethe was a sales application engineer at D.T. Randall & Associates. He was survived by his wife, Estella, and a daughter.

**Martin W. Hayes**, BSMA'80, of Wixom, Oct. 1, 2008. Mr. Hayes was the owner of Interplex Corp. In addition to his career in computer controls systems, he also enjoyed private teaching.

**Guy D. Rhodes**, BSAR'81, of Detroit, Feb. 18, 2008. Mr. Rhodes was the owner of GDR Architects. He was survived by his wife, Phillis.

**Cary R. Patten**, PE, BSEE'83, of Waddell, AZ, Nov. 11, 2008.

**Kurt C. Houslander**, BSME'91, MBA'02, of Livonia, July 1, 2008. Mr. Houslander was a climate control engineer at Chrysler. He was survived by his wife, Justine, and two sons.

**Rodney D. Terrill**, BSEE'91, of Kalamazoo, Sept. 7, 2008.

**John J. Jurewicz II**, BSIM'92, of Sterling Heights, Sept. 24, 2008. Mr. Jurewicz was a member of Sigma Phi Epsilon and the Detroit Beginning Experience. He was survived by his parents, a brother, and a sister.

**Michael Campbell**, BSET'94, of Clarkston, July 27, 2009. Mr. Campbell was a design engineer at General Motors in Warren. He was survived by his wife, Anne, a son, and a daughter.



## THE LAWRENCE TECH FAMILY

**Glen Gearhart**, May 27, 2009. As an adjunct faculty member, Mr. Gearhart taught evening courses in English at Lawrence Tech for nearly 40 years, earning the respect of both students and faculty. He also taught at North Farmington High School for 30 years.

He and his wife, Karen, a former English and French teacher at Farmington High School, took ownership of Kaye Britton Travel in Farmington Hills after they retired from their teaching careers in 1991. The couple traveled extensively, observing penguins in Antarctica, visiting the Incan ruins in the Andes Mountains, riding elephants in Thailand, and shopping on the streets of Rio de Janeiro.

Mrs. Gearhart described her husband as an impeccable dresser who wore designer suits with starched collars and French cuffs to his classes. "Besides wanting to look good, he thought it provided a positive example to the students of what a leader should be," she told the *Detroit Free Press*.

Mr. Gearhart graduated from Western Michigan University with a degree in English in 1955 before serving two years in the Army as a military policeman.

### **Walter "Scotty" Maconochie,**

Aug. 27, 2008. Mr. Maconochie served as basketball coach at Lawrence Tech in 1952 and 1953. A native of Detroit, he enrolled at Lawrence Tech after graduating from high school. Following the 1941 attack on Pearl Harbor, Mr. Maconochie wanted to join the Marines, but the recruiters told him he would need to get his teeth fixed first. Rather than wait, he joined the Army instead. After his training, he was sent overseas with the First Infantry Division and saw combat in seven major campaigns in Africa, Italy, Germany, and France, including the Normandy invasion on D-Day. Wounded twice, Mr. Maconochie was offered the Purple Heart, but turned it down both times.

Returning to civilian life, he married his wife, Isabel, who died in 2007, and worked for his brother at Macon Manufacturing in Warren. Mr. Maconochie was a frequent speaker to inmates in the Oakland County Sheriff's Boot Camp program.

In an interview with the Royal Oak's *Daily Tribune*, Oakland County Sheriff Michael Bouchard said Mr. Maconochie was an inspiration and humble at the



### **Virginia North, assistant dean of architecture**

Virginia North, assistant dean of graduate studies in the College of Architecture and Design, was killed in an automobile accident on Oct. 22, 2009. Dr. North began teaching as an adjunct professor at Lawrence Tech in 1981 and joined the faculty in 1999. She previously served as department chair of art and design.

Dr. North simultaneously directed her College's growing graduate programs, oversaw its national and international student recruitment efforts, coordinated interior architecture and design degrees, led the development of the College's online educational programs, oversaw the College's three professional accreditations, and oversaw its web pages.

"Virginia was an extremely diligent and competent leader. She set very high standards and worked until she got the job done," Dean Glen LeRoy said. "I have known few people in my life who have been so focused and dedicated to their task."

Dr. North is survived by her husband, Clare, and a daughter, Ashley, a Lawrence Tech student. An endowed scholarship, the Virginia North Graduate Fellowship in Architecture and Design, has been established in her memory. Contributions may be sent to Lawrence Tech's Office of University Advancement, or visit [www.ltu.edu](http://www.ltu.edu) and click the "ClickandGive" icon.

same time about his wartime experiences. "Every time you talked to him, he'd say, 'I was just doing what I was told; there were a lot more guys who did more important things. I was just trying to help out,'" Bouchard told the newspaper. "He was just one of those gentle giants who are the reason we have the freedoms we have today."

Mr. Maconochie was survived by his son, Martin (Mary) Maconochie, and five grandchildren.

### **Sydney L. Terry, Mar. 26, 2009.**

Mr. Terry was a member of Lawrence Tech's Board of Trustees from 1979 to 1990 and served on the University's Advisory Corporation from 1990 until his death.

A graduate of Stanford University and Chrysler Engineering Institute, Mr. Terry was employed for 38 years at Chrysler, where he rose to vice president of engineering and then vice president of public responsibility and consumer affairs. Prior to his retirement in 1980, he served as the automaker's chief spokesman regarding compliance with laws regulating automotive safety and the environment, testifying frequently before various congressional committees.

From 1981 to 2006, Mr. Terry was a professional consultant to business and industry, serving on the boards of directors of various institutions. A member of Phi Beta Kappa, Engineering Society of Detroit, and the Society of Automotive Engineers, Mr. Terry held several U.S. patents.

## DIT IN MEMORIAM

**Robert B. Scott**, BSCE'39, of Blacksburg, VA, Sept. 23, 2008. Mr. Scott, an Air Force veteran and former member of the Plymouth school board, worked in pharmaceutical research as a spectroscopist before retiring in 1984. He was survived by his wife, Patricia, two sons, and a daughter.

**James G. Smith**, BSME'42, of Hackettstown, NJ, Dec. 18, 2008. Mr. Smith was a retired safety engineer at Continental Insurance Co. He served in the Merchant Marine and the Coast Guard during World War II and was a former mayor and councilman in Hackettstown. Survivors include a granddaughter.

**Carl A. Nystrom**, BME'43, of Farmington Hills, June 15, 2008. Mr. Nystrom was employed for over 30 years with Ford Motor Co. as an engineer, most recently in heavy truck design. He was a long-time member of the Society of Automotive Engineers. He was survived by three sons.

**John G. Locklin**, BAeE'45, of Aumsville, OR, Aug. 14, 2006. Mr. Locklin was among a small group of Lawrence Tech and DIT alumni and faculty who formed the Laister-Kauffman Corp. in 1942 to build the huge and innovative CG-10 cargo gliders expect-

ed to be used in an aerial invasion of Japan. The graduates, all in their early 20s, had a \$100 million federal contract and 3,000 employees devoted to the effort, which was canceled when Japan surrendered. He later joined General Motors. Mr. Locklin was survived by two sons and two daughters.

**Curtis T. Burkett**, BSCE'62, of Sarasota, FL, Aug. 28, 2008. Mr. Burkett was the city engineer of Wyandotte, the program director of civil engineering at Manatee (FL) Community College, and had his own civil engineering and land surveying business. He was survived by his wife, Beverly, and two daughters.

**James W. O'Neill**, BCvE'73, of Erie, Nov. 6, 2008. He was survived by his wife, Ginny, and four children.

**Tom Raymus**, BBA'74, of St. Clair Shores. Mr. Raymus was a Macomb County Road Commissioner, a former member of the Macomb County Board of Commissioners, a retired Detroit police administrator, and Korean War veteran whose career in public service spanned nearly half a century. He was survived by his wife, Martha, six daughters, and two sons.

**Melvin J. Swovick**, BSCh'74, of Troy, June 7, 2007. Mr. Swovick was a retired forensic chemist for the Oakland County Sheriff's Department.



# Report to Investors | INVESTORS



*Incoming students bond and develop new friendships during myriad orientation activities prior to the start of fall classes.*



# REPORT TO INVESTORS

## FROM THE PRESIDENT

*Over 1,100 students comprised the Class of 2009, making it one of the largest graduating classes in Lawrence Tech's history. President Walker and Provost Maria Vaz shook the hand of every graduate walking across the stage.*



“**T**he recovery starts here and it must start with us.” This was my emphasis at a widely attended news conference last December when Lawrence Technological University became the first university in the state – and possibly the nation – to develop and launch a comprehensive program we call the “Recovery Starts Here” stimulus package for displaced workers.

With initiatives reminiscent of the innovation and sacrifice that led to Lawrence Tech’s founding at the height of the Great Depression in 1932, the Lawrence Tech community came together this past year in remarkable ways to assure that access to the many benefits of a Lawrence Tech education would not be denied to those who most could benefit.

As those of us in Michigan are painfully aware, over the past several years, over half a million of our fellow citizens in automotive and related manufacturing industries lost both blue and white collar jobs. Layoffs accelerated through the summer and fall of 2008 as these industries, long key to Michigan’s prosperity, reeled from the drying up of consum-

er credit and the effects of the burgeoning national economic crisis. At Lawrence Tech last year alone, over 600 full-time students as well as many more of our large population of part-time students were affected by the suspension of their employers’ tuition reimbursement benefits.

For our current students, the campus community came together quickly with the goal of keeping as many of the affected students as possible in school and progressing toward graduation. Associate Provost for Enrollment Management Lisa Kujawa, Dean of Students Kevin Finn, and others in our financial aid, career services, and business services offices worked tirelessly to find additional aid resources and adjust payment plans.



*A. Alfred Taubman (L) was honored by President Walker April 22 as the donor of Ockham's Wedge, a new sculpture by Beverly Pepper that graces the center of the beautifully landscaped and redeveloped campus quadrangle.*



# REPORT TO INVESTORS



*During Lawrence Tech's 2009 Winterlude celebration held at the Westin Book Cadillac in Detroit in March, President Lewis N. Walker (L) recognized A. Leon Linton, BSME'62, for his generous contributions to the University.*

Even as this was going on, we also knew that displaced workers – be they students, alumni, or others – require educational retooling and career services to help them return to the workplace and to companies that need educated workers to implement dynamic plans and develop new products.

This is why I am so proud that Lawrence Tech was able to be a vital bridge to bring these companies and workers together.

Lawrence Tech's "Recovery Starts Here" initiative launched in December included:

- Immediate creation of some 450 "Recovery Grants," a \$3 million University-funded plan that provides 50 percent of tuition for eligible displaced

workers or their dependent children through the completion of their undergraduate or graduate degree program.

- Expanded academic programming created with counsel and advice from industry, including an amazing 35 new degrees or fast-track certificate programs in such fields as sustainability, alternative energy, and life sciences geared to strengthen and diversify Michigan's economy and prepare students for the changing global market.

- Career networking receptions and workshops attended by over 3,000 Michigan citizens – not limited to Lawrence Tech alumni and students – that matched displaced workers holding college degrees with innovative companies that currently have employment opportunities.

One week after the launch of Lawrence Tech's program, Michigan Governor Jennifer Granholm chose the campus for a news conference where she announced what state and local governments were also doing for displaced workers. She brought with her all the major elected leaders from the Metro Detroit area. She requested that her event be held at Lawrence Tech because "they led the way in showing how, working together, we can help Michigan's displaced workers."

To date, over a dozen other Michigan colleges and universities have subsequently stepped forward with their own plans to aid current and prospective students. A number of state relief and educational agencies have also enacted and launched plans, and Lawrence Tech is additionally participating in all that are appropriate.

While some or even all of these other programs may eventually have come about on their own, Lawrence Tech accelerated the process and was first with a comprehensive, multi-faceted initiative to serve prospective and current students and alumni, as well as Michigan's general population of displaced workers. In this way we are again being true to Lawrence Tech's long heritage as a leading, highly relevant, and engaged provider of higher education and related services that address current needs. As President Wayne Buell described Lawrence Tech more than a generation ago, we remain a "private university serving public purposes."



# REPORT TO INVESTORS

As our student recovery efforts were under way, in order to maintain the University's short- and long-term financial stability, our dedicated faculty and staff have shared a number of sacrifices this year, the goal being a \$4 million reduction of the operating budget. This was accomplished by the elimination of non-essential spending, the deferral of certain purchases, an across-the-board salary freeze, the suspension of the University's contribution to the TIAA-CREF pension plan, a general hiring freeze, and layoffs of a small number of personnel. We anticipate that these measures will be sufficient to allow the University to ride out the current economic downturn, and I am grateful to our faculty and staff for their steadfast commitment and devotion to excellence even during these difficult times.

At the same time, Lawrence Tech's fund-raising success has remained remarkably strong as we seek to increase scholarships, build endowment, and prepare for further improvement of facilities. We received the most cash contributions in the history of the University, and in terms of overall funds raised, it was our third best year ever. A highlight of the year was the \$2.5 million gift from alumnus A. Leon Linton, BSME'62, which resulted in naming the Department of Mechanical Engineering in his honor.

I am also pleased by the success of the rollout of

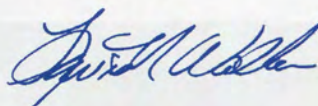
Lawrence Tech's Leadership Program, which imbues leadership skills and experiences regardless of major throughout the undergraduate programs. The junior year program was inaugurated this year with the final component for the senior year now in preparation.

Additionally, more progress has been made forging partnerships with universities overseas and expanding the breadth and scope of our international programs. This past year we finalized agreements with several of the top universities in China and India and have been forging other important new relationships with a variety of global leaders that hold great potential.

Through 77 years of dedication, commitment, and involvement of faculty, staff, alumni, and friends such as you, Lawrence Tech continues

to advance ever closer to the vision set forth in its strategic plan: "to be a preeminent private university producing leaders with an entrepreneurial spirit and a global view." In good times and in bad, this great university has continued to serve. It is precisely during difficult times such as these that the value and worth of Lawrence Tech and the programs it offers shine brighter than ever.

Your support and encouragement mean more than I can say. Thank you!



Lewis N. Walker  
President and CEO

*Some 50 employer representatives were welcomed by President Walker at the second of four career networking receptions held in May as part of Lawrence Tech's "Recovery Starts Here" initiative.*

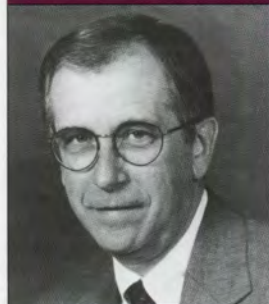




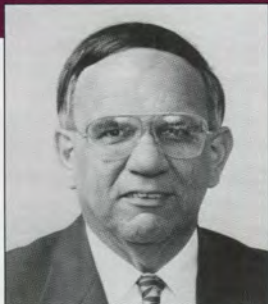
# REPORT TO INVESTORS

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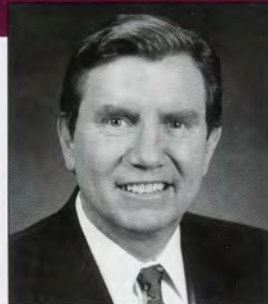
**Joseph E. Champagne**  
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President, CIO  
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Operations  
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Former Vice Chairman  
Delphi Corp.

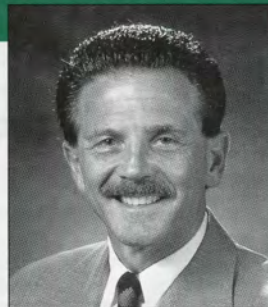
### CLASS OF 2011



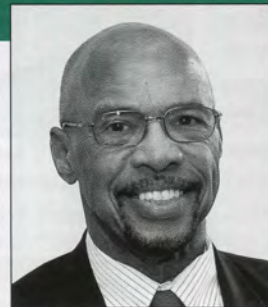
**Douglas E. Ebert**  
Former Chief Operating  
Officer  
Cranbrook Educational  
Community



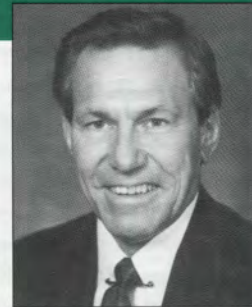
**John E. Elliott, II, BSBA'80**  
Chairman  
AMI Holding  
Corporation, Inc.



**Larry D. Lyons**  
Vice President  
Small Vehicle Production  
Team  
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Former Director, Fox Vehicle  
Program  
General Dynamics Corp.



**Lloyd E. Reuss**  
Chairman of the Board  
Lawrence Technological  
University  
Former President  
General Motors Corp.

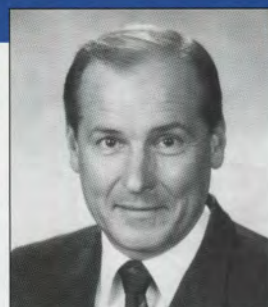
### CLASS OF 2010



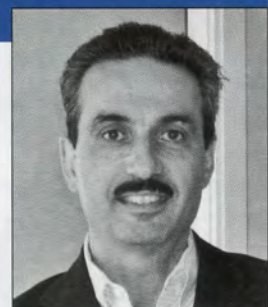
**Lauren L. Bowler**  
Former Vehicle Line  
Executive  
Midsize/Large Cars Int'l  
Adams Opel AG  
General Motors Corp.



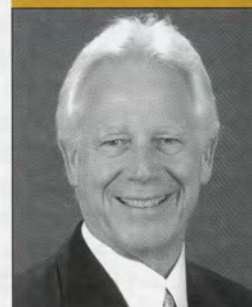
**Douglas DelGrosso,**  
BSME'84  
Vice President, Operations  
North American Braking &  
Suspension  
TRW Automotive



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



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



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

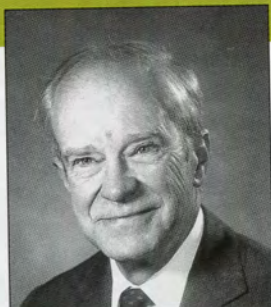


# REPORT TO INVESTORS

## ADVISORY MEMBERS OF THE CORPORATION



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



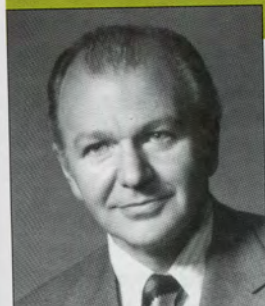
**Edward Donley, BME'43**  
Former Chairman, Air  
Products and Chemicals,  
Inc.



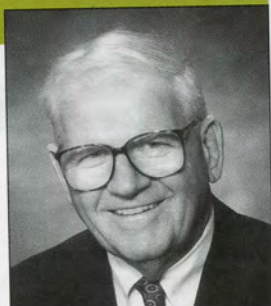
**Esther G. Edwards**  
Chairman and CEO,  
Motown Historical  
Museum, Inc.



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

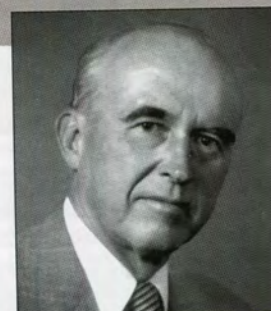


**Julius L. Pallone**  
President, J.L. Pallone  
Associates



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

We are saddened by the death of Sydney L. Terry on March 26, 2009. Mr. Terry was former vice president, public responsibility and consumer affairs, for Chrysler, and served Lawrence Tech with distinction as a trustee 1979-90 and as an advisory member of the corporation since 1990. (See In Memoriam, Page 37)





# REPORT TO INVESTORS

## FROM THE PROVOST



*Provost Maria Vaz speaks to members of the Saudi Student Union during a reception they organized in Café Lawrence for officials of the Saudi Arabian Cultural Mission.*

**T**he Lawrence Technological University community has accomplished much during the past academic year and more exciting things are yet to come. The financial struggles and uncertainty that so many families face have been daunting, and I am so proud of how this university came together to help so many of our students and alumni. We remain steadfast in our efforts to provide leadership on developing strategies for economic recovery.

The “Recovery Starts Here” program created nationwide acclaim for the University. As Dr. Walker reported, we awarded some 450 Recovery Grants by the time the fall 2009 semester began. The recipients were our own current or former students, alums,

and many others who have been displaced as a result of the economic downturn. In addition, we extended short- and long-term payment plans to many of our students who lost their tuition reimbursement benefits. Our pledge is to work with all students to help them continue their education – their assurance of a better future.

We are also working with Michigan employers to identify the skills they seek as they hire employees for the new economy. We are aggressively pursuing additional certificates to transition professionals to the defense industry, media and film industry, alternative energy, biomedical engineering, and bioinformatics, among

others. These programs are positioning Lawrence Tech for the future as well.

In the past six months, Governor Jennifer Granholm, U.S. Senator Carl Levin, several congressional representatives, County Executives L. Brooks Patterson and Robert Ficano, then-Detroit Mayor Kenneth Cockrel, and many industry executives visited campus to learn of the work our students and faculty are doing in alternative energy, sustainability, and in finding uses for new materials.

We aim to continue building a campus environment that increases students’ professional and personal opportunities to lead and contribute to society as learned citizens. Among this year’s accomplishments:



■ **Naming of the A. Leon Linton Department of Mechanical Engineering:**

Memphis-based alumnus and entrepreneur A. Leon Linton donated \$2.5 million to name and endow the Department of Mechanical Engineering. Mr. Linton, BSME'62, is founder and CEO of Southern Systems Inc. (SSI), which designs, builds, and installs custom conveyor systems for manufacturing and distribution facilities. He said he is confident Lawrence Tech will continue to thrive by maintaining its "theory and practice" approach to education, which he finds as valuable in today's work environment as it was when he graduated. The gift will help the Department of Mechanical Engineering fund laboratory equipment, facilities, and other needs to improve the student educational experience.

■ **Leadership Program Rollout Continues:**

The Leadership Program for all undergraduate students continues to be phased in. By fall 2010, all Lawrence Tech students will have exposure to leadership concepts and will practice these concepts. Exceedingly rare among the nation's baccalaureate programs, the Leadership Program gives Lawrence Tech students a value-added opportunity to experience, through their individual majors, the rewards that leadership brings to their lives and to others.

■ **New Academic Programs:**

Exciting new degree programs in emerging economic sectors launched over the past year include a Master of Architectural Engineering, Master of Urban Design, Bachelor of Industrial Operations Engineering, and Bachelor of Audio Engineering Technology. Several of these are unique in Michigan and among only a few such programs in the nation.

■ **New and Updated Innovative Certificates:**

In addition to degree programs, new fast-track certificate programs at Lawrence Tech reflect agility and a flexible, interdisciplinary approach to better prepare students for new opportunities. The newly launched programs include undergraduate certificates in Alternative Energy Engineering Technology, Animation and Visual Effects for Film, Biochemical Engineering, Bioelectronics, Biomechanics Building Information Modeling and Computer Visualization (online), Computer Science, Electrical Power Systems, Embedded Systems, Entrepreneurial Strategy, Film and Audio Technique, Film and Production Techniques, Industrial/Organizational Psychology, Innovative Product Design, Set Design, Technical and Professional Communication, Television and Video Production, and Video and Audio Technique. New and updated graduate certificates include Aeronautical Engineering, Architectural Management (online), Bio-

informatics, Critical Studies in Architecture, Electrical Power Systems, Energy and Environmental Management, Energy Engineering, Information Assurance Management, Instructional Systems Design and Presentation, Instructional Technology, Manufacturing Systems, Manufacturing Systems for the Defense Industry, Nonprofit Management and Leadership (also online), Project Management (also online), Robotics Education, Sustainable Architecture, Technical and Professional Communication, Telecommunications Engineering, Transportation Design, Urban Design, and Workplace Technology.

■ **Quest:** This new College of Arts and Sciences co-curricular experiential learning program enables students to explore

*Provost Maria Vaz presented the new graduates during the University's 77th Commencement Exercises held at Cobo Arena in Detroit in May.*





# REPORT TO INVESTORS



*Lawrence Tech's 12:1 student/faculty ratio assures that students receive plenty of personal guidance from professors. Here, longtime professor Jerry Crist explains an experiment in a chemistry lab.*

their passions and future careers under the guidance of faculty or industry mentors. Students choose their projects in the areas of arts, leadership, or research. More than 40 students were involved in 27 Quest projects this past year.

■ **Improved Campus Activities:** Members of the campus organization Students Programming Activities Monthly (SPAM) returned from their annual national conference and developed another year of great 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 athletic mascot, Blue, leads fans in cheering and adds spirit to campus events. Other new programming aims to increase student awareness of diversity and social responsibility.

■ **Kern Grant and Entrepreneurism:** The Kern Family Foundation of Waukesha, Wis., has awarded Lawrence Tech a five-year, \$1,154,500 grant to further integrate entrepreneurial education into the curriculum of the College of Engineering. We are using the Kern grant to achieve three ambitious goals: transform the educational experience of undergraduate engineering students in order to develop the entrepreneurial mindset; change the culture of the faculty and the University leadership involved in engi-

neering education to focus on entrepreneurship; and provide an infrastructure to encourage and support entrepreneurial activities for undergraduate engineering students. The centerpiece of this effort is a five-year project to modify 30 courses taken by engineering students. We are introducing pedagogical methods and/or content to develop both the knowledge and the practice of entrepreneurship. Other key elements include an entrepreneur-in-residence program, an entrepreneurial co-op and internship program, multidisciplinary student projects that contain entrepreneurial components, and entrepreneurial mindset workshops for faculty and University leadership. Lawrence Tech will also host Entrepreneurs Quest, a regional innovation competition.

■ **Financial Aid Increased:** Although the cost of attending Lawrence Tech remains among the lowest of private colleges and universities, we continue to increase the size and number of scholarships for students affected by the economy. The Offices of Financial Aid and Business Services have worked to help students access all possible forms of aid available. The Board of Trustees approved changes in the structure of tuition and fees and held increases to a minimum. For summer and fall 2009, tuition and fees increased an average of 4.3 percent, with blended rates depending on the course



# REPORT TO INVESTORS

level and program. Concurrently, our financial aid budget was increased by 14 percent for academic year 2009–10. The Provost Grant was increased by 30 percent last year and by 50 percent this year. More graduate scholarships and grants were awarded to help students who lost tuition reimbursements from their employers. We also testified before the Michigan House of Representatives on behalf of students to keep the Michigan Tuition Grant stable. Our goal is to continue to provide private technological education.

■ **Emphasis on Scholarship and Applied Research:** In addition to excellent teaching, we believe that to educate students who will become entrepre-

neurs, innovators, and creative thinkers, faculty members must be engaged in discovery, creative and innovative processes through applied research, and scholarship. These activities keep both faculty and students dynamically engaged with each other and with the professional community. The Applied Research Committee was formed to facilitate and support faculty in their efforts to start research projects and involve students in these projects. Thirteen competitive seed grants were awarded to faculty members by the committee this year for projects that eventually will be financed by external sources.

We want to enhance and improve student opportunities for success by providing

additional learning opportunities and greater access to new technologies. We are committed to achieving our mission “to develop leaders through innovative and agile programs embracing theory and practice” and above all, strengthening every student’s competitive edge.

*Maria J. Vaz*

Maria J. Vaz  
Provost



*Students enjoy the new Hossack Outdoor Dining Plaza and Terrace Garden adjacent to the Buell Building Dining Commons, one of many campus improvements in the past several years.*



# REPORT TO INVESTORS

## FROM THE VICE PRESIDENT OF UNIVERSITY ADVANCEMENT



*Vice President of Advancement Stephen Brown served as master of ceremonies at the University's Winterlude, an annual reception honoring major donors, in March.*

To say the least, it has been a challenging year for everyone. This recession is unprecedented since the worst days of the Great Depression of the 1930s.

Interestingly, it was at the very height of that difficult period that the Lawrence brothers started this great institution. We not only made it through that difficult era, we flourished in the 77 years that have followed. That same enthusiasm, agility, flexibility, integrity, diligence, and commitment to theory and practice will position us perfectly

for the improving economic conditions we will inevitably experience. We will emerge even stronger as a preeminent private university producing leaders with an entrepreneurial spirit and global view.

Some remarkable changes occurred during the 2008–09 academic year. Benefits for workers in Southeast Michigan were reduced by an alarming rate, including the elimination of tuition reimbursement and “matching gift” programs for those wishing to donate to charities and non-profit institutions.

These changes have had a somewhat adverse effect on our ability to achieve our goals. We also experienced a modest decline in enrollment, predominantly at the graduate level consistent with our competitors. We’ve responded energetically with the Recovery Grants, new certificates, and new programs as the president and provost outlined in their reports.

Lawrence Tech has received a great deal of favorable media coverage in response to all these initiatives, resulting in a very positive improvement in our already strong reputation. Our coverage over the year in all media vehicles has been at a level never seen before in our history. The response to our “Leaders in the Making” radio campaign has also been very positive and helped reinforce our “Leadership through Theory and Practice” positioning.

The University, out of necessity, had to make some serious budget decisions over this past year, but we remain committed to our communications budget as we seek to maintain our share of advertising voice in the Southeastern Michigan market while expanding both our out-state and out-of-state enrollment initiatives. Campus Housing for the fall was at capacity as we continue to attract more non-commuter residential students. This leads to a more powerful and engaging university experience that translates to stronger roots as these students become alums.

Our relationship with the Alumni Association continues to move in a positive direction. The alumni board of directors and the Office of University Advancement collaborated on a research and strategy planning initiative that will further cement the bond with our alums and link even more closely with the University’s strategic goals.

Lawrence Tech’s fund-raising efforts are also achieving success. While our donors, friends, and alumni have experienced changes in their personal wealth, they continue to be devoted to Lawrence Tech. We received two multi-million-dollar cash gifts over the past 12 months. Our faculty and staff fund-raising results over the past two years have broken records, so our own “family” remains focused on helping Lawrence Tech meet its development goals. While pledge payments have declined, most people are still making some form of payment toward their



# REPORT TO INVESTORS

commitment and show every intention of continuing to support the University.

We continue to progress toward our “Proud Heritage, Bold Future” campaign goal of \$75 to \$100 million and are hopeful that we will be able to go public sometime in the next year, two years ahead of schedule. This past year, surprisingly, represents the highest cash-received year in our history – quite an accomplishment in this economy.

Lawrence Tech has also made significant gains in applied research activity over the past year, particularly in the area of carbon fiber research. Through the extraordinary efforts of our faculty and the business development team in University Advancement, the University has received many grants, including one from the Kern Foundation in excess of \$1.1 million to develop our entrepreneurial engineering program.



All in all, we are optimistic about Lawrence Tech’s future. In working with the enrollment team, we see opportunity for student growth both in Michigan and out of state as our state and nation evolves from the current economic plight. Lawrence Tech continues to

differentiate itself from the competition and we are poised to grow our market share thanks to the introduction of new academic programs. The loyalty of our donors, friends, and alums will help us meet our campaign goals and we continue to exploit our applied research strengths to attract more grants.

We see positive outcomes on the horizon and will capitalize on every opportunity that comes our way.

Stephen E. Brown  
Vice President  
University Advancement

*Dedicated in 2008, Lawrence Tech’s Center for Innovative Materials Research is nearly complete with the installation of the environmental chamber adjacent to the fire/loading chamber. The chambers can replicate high winds, temperatures from below freezing to 2300 degrees F, fire, water spray, and a variety of other harsh conditions that can affect structural and vehicle components.*



*High powered laptop or notebook computers, provided by the University to all undergraduates and custom configured to their particular academic discipline, are as ubiquitous on campus as slide rules were a generation ago.*



# REPORT TO INVESTORS

FROM THE VICE PRESIDENT FOR FINANCE AND ADMINISTRATION



*At Winterlude President Lewis N. Walker congratulated Linda Height, vice president for finance and administration, for becoming a member of the Benefactors Society.*

**T**his was a challenging year financially for Lawrence Technological University.

Many students in our master's degree programs were adversely affected when the automotive companies and suppliers eliminated tuition reimbursement for their employees. The University community worked diligently to develop programs and payment plans that have enabled most of these students to remain in school.

It was with that same determination, involvement, and assistance of the entire campus community that we reduced expenses by over \$4 million for fiscal year 2009. We also made great strides in streamlining the budget for fiscal year 2010. This was accomplished while continuing to increase scholarships and reduce the University's debt.

We continue to have strong and productive relationships with our banking partners. These relationships were key this year in renewing both credit lines and the letters of credit that cover our bonds.

As part of our process improvement and sustainability initiatives, Lawrence Tech implemented a paperless environment for paychecks, W-2 tax forms, and student bills and statements. This initiative is saving the University both time and money, and has been well received by the campus community.

Linda L. Height  
Interim Vice President  
Finance and Administration

*Lawrence Tech's University Technology and Learning Center (UTLC), opened in 2001, connects the Engineering and Architecture Buildings with a variety of classroom, studio, and meeting spaces, and serves as the symbolic gateway into the quadrangle area.*



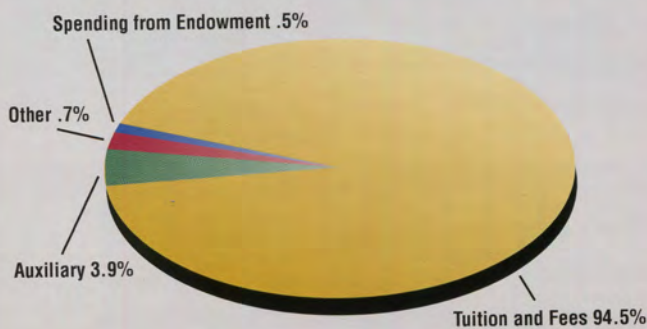


# REPORT TO INVESTORS



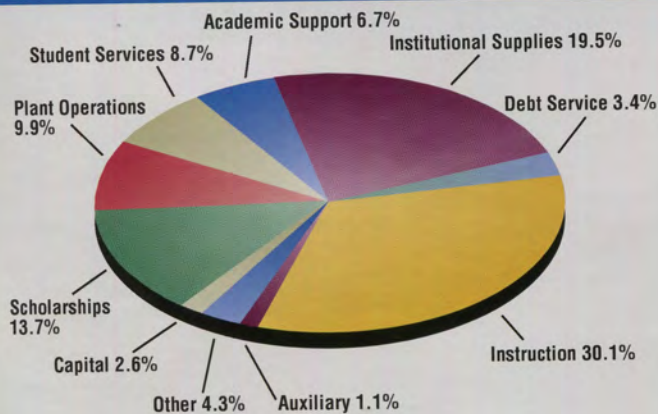
*The University Technology and Learning Center (UTLC) includes a semicircular gallery that is a popular exhibition and event facility, topped by the Marburger Terrace, an outdoor open deck overlooking the redeveloped quadrangle seen on the cover of this magazine.*

## Revenue: \$60,061,122



*The DTE Energy One Stop Help Desk in Alumni Hall of the A. Alfred Taubman Student Services Center has become a national benchmark model for providing students with convenient access to a variety of counseling, registration, financial aid, and cashier services.*

## Expenses: \$60,016,208



*Financial results for fiscal year ending June 30, 2009*



# There's More Than One Way To Express Your Philanthropic Desires

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*Knowing How & When To Give Can Make A Big Difference*

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Expressions of philanthropy are intensely personal. And thanks to strategies made possible in large part by tax laws that recognize the benefits of philanthropy, there is more than one way to demonstrate your support for Lawrence Tech.

Since the earliest hours of our history as a nation, the support of organizations that strengthen the fabric of our society has been encouraged.

Today there are tax incentives for making gifts of cash before December 31 that can reduce your taxable income for this calendar year. Gifts of stock and real estate also may produce tax benefits and savings.



Trust agreements make it possible to bypass capital gains tax on appreciated assets, receive a tax deduction, and even increase income. And, of course, bequests via the Last Will and Testament offer a way for anyone to give lasting voice to important values.

For a brochure on the ways to make a charitable gift, call or write our Advancement Office.



Lawrence Technological University  
Office of University Advancement/Suite M345  
21000 West Ten Mile Road  
Southfield, MI 48075-1058  
248.204.2300 • [advancement@ltu.edu](mailto:advancement@ltu.edu)





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## T H E B A C K P A G E

### Lawrence Tech initiatives aid displaced workers

“Don’t close off your options, and be willing to look at the possibilities” has become a mantra for Peg Pierce, director of Lawrence Tech’s Office of Career Services, which this year has helped thousands of displaced workers with college degrees begin the transition to new careers.

As part of its “Recovery Starts Here” initiative conceived and launched by President Lewis N. Walker last December, Lawrence Tech has held three networking receptions where nearly 3,000 college-educated job seekers met with representatives of 90 different companies. The fourth is scheduled for Jan. 28 ([see ltu.edu/recovery](http://ltu.edu/recovery) for details).

Another thousand-plus job seekers have attended free workshops organized by the Ayers Group of Southfield – a career transition management firm and a division of Kelly Services, Inc. of Troy – in partnership with the Office of Career Services.

Feedback from participants helped the organizers focus more sharply on key areas in the job search. A workshop on resume writing was replaced with a one-on-one resume review. A workshop session was added on how to use social media like Facebook and LinkedIn. The August networking reception included a panel discussion on what employers want to know about job candidates.

But the original purpose of the receptions remains the most important benefit. “The overwhelming lesson is that you have

*Alumni Hall in the A. Alfred Taubman Student Services Center provided an informal setting for networking between job seekers and company recruiters at Lawrence Tech’s third networking reception in August.*



to keep networking with everyone you can in order to turn up promising job leads,” Pierce said.

John Nametz agrees that networking helped him in his search for a job outside the automotive sector where he had worked for many years. In fact, he learned about his new full-time job with Franklin Energy, a utility industry subcontractor, by networking at a seminar he attended to meet a requirement for a Lawrence Tech course.

Nametz prepared himself for the transition to a new industry by earning a certificate in energy and environmental management at Lawrence Tech in May. “You have to make the choice to reinvent yourself. Just being an engineer and a business manager wasn’t enough for me,” he said. “You have to make yourself into something that’s wanted and needed, and that’s what I did.”

According to Dean of Students Kevin Finn, his staff and many others at the University saw the networking receptions as an opportunity to help people. “Our staff has pulled together on a common project that transcended the mission of any one department,” he said. “It would have been easier to watch from the sidelines, but people feel good about the work we are doing for displaced workers.”

By taking on an added responsibility that other universities have avoided, Lawrence Tech has forged closer relationships with many employers and partnerships with organizations responsible for economic development.

“We are still the only university in Michigan to offer support to displaced workers at this level,” Finn said. “We definitely have raised the profile of Lawrence Tech by demonstrating once again that we are a private institution with a public purpose.”

▲EP



*Director Peg Pierce and Sherri Kerby of Lawrence Tech’s Office of Career Services review last-minute details with employer representatives prior to the networking reception in August.*