

Enrollment Up at Lawrence Tech

By Eric Pope
Tech News Editor

Aided by increased interest in many graduate degree programs and the College of Arts and Sciences, Lawrence Technological University increased enrollment for the fall semester by 5.8 percent. Registration figures prior to the start of classes this week indicate that the trend will continue in the spring semester.

Enrollment increases in graduate programs for the fall semester included:

- Master's in computer science, up 120 percent.
- Master's in electrical and computer engineering, up 81 percent.
- Doctorate in business administration, up 39 percent.
- Master's degrees in the College of Architecture & Design, up 29 percent.
- Master's in mechanical engineering, up 25 percent.

According to Lisa Kujawa, assistant provost for enrollment, there has been a long-term trend of growth in graduate degree programs because of Lawrence Tech's reputation for providing non-traditional education opportunities for working students.

"Many students who select Lawrence Tech for graduate degrees seek to advance their careers, including many people who have earned a bachelor's degree here," Kujawa said.

The number of students from India grew from 65 to 125 in just one year, which helps account for the dramatic increase in interest in graduate degree programs in computer science and electrical and computer engineering.

At the undergraduate level, enrollment increases for the fall semester included:

- Biomedical engineering, up 121 percent.
 - Business management, up 52 percent.
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1,500 Pounds of Food for Forgotten Harvest



The student chapter of the American Society of Civil Engineering (ASCE) won an annual competition in the Civil Engineering Department by collecting 800 pounds of food for Forgotten Harvest before Christmas, compared to 700 pounds collected by the faculty. Showing off their combined donations are (L-R) ASCE student member Jason Williams, Associate Professor and ASCE Student Chapter Faculty Advisor Don Carpenter, ASCE President Chase Whittlatch, University Distinguished Professor Nabil Grace and ASCE student member Jerrid Walker. As the losers in the competition, the faculty had to buy the pizza at the annual ASCE holiday party at Shield's. This marks the sixth year of the annual competition, which has now collected 11,000 pounds of food from the Civil Engineering Department faculty, staff and students.

Corporate Support Advances Mechatronics Program

By Eric Pope
Tech News Editor

When Professor Vladimir Vantsevich started a pioneering academic program in mechatronics at Lawrence Technological University, financial contributions and cooperative support from the private sector were key to getting the program launched.

Mechatronics degree programs, common in Europe and Asia but still a rarity in the United States, meld mechanical, electrical and computer engineering disciplines. Vehicles rely more and more on sophisticated electronics and computer controls. Vantsevich was very familiar

with this approach after a nearly 30-year academic career in Belarus, where he specialized in designing driveline systems and control devices for multi-wheel-drive vehicles.

Vantsevich introduced Lawrence Tech's master's degree program in mechatronic systems engineering in 2006. This unique high-tech educational program, the first in Michigan, includes research options for students. The Laboratory of Mechatronic Systems opened this year.

To outfit the new laboratory, equipment and software valued at \$470,000 was contributed by Bosch, dSPACE, Eaton, Festo, Kistler

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Shetty becomes engineering dean

Devdas Shetty became dean of the College of Engineering at the start of the new year, succeeding Laird Johnston who retired at the end of the fall term.

Shetty comes to Lawrence Tech from the University of Hartford in Connecticut where he was the dean of research, the director of the engineering applications center, the associate dean of the College of Engineering, and a professor in manufacturing engineering. At Hartford, he developed a reputation for innovative partnerships between the university and industry.



Devdas Shetty

"I am quite excited to be here because Lawrence Tech strongly believes in the educational cooperation between industry and student learning," Shetty said. "When Lawrence Tech was founded 75 years ago, its curriculum was influenced by its constituency and the community it served. Assessment and continuous improvement had always been a part of its mission."

Shetty said that it is only in the last ten years or so that the idea of continuous improvement, assessment and readjustment of curriculum has been picked up by other American engineering and technology institutions, due to the influence exerted by accrediting bodies such as the Accreditation Board for Engineering & Technology.

According to Shetty, there is a close match between his outlook of engineering and the University's vision of engineering education that gives students theoretical tools and hands-on experiences in an atmosphere of entrepreneurial leadership and improved learning.

"Lawrence Tech has a good group of well-recognized faculty who inspire, teach and challenge students and engage them in hands-on research," Shetty said. "I strongly feel that Lawrence Tech can influence the economy in Michigan and

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Mechatronics: Benefits from Corporate Support

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Instrument, KUKA Robotics and National Instruments. Chrysler contributed nearly \$50,000 for academic support programs and also donated hardware.

Some corporations did even more to help, as demonstrated by Kistler Instrumente AG of Switzerland and its American subsidiary based in Amherst,



Mechanical engineering Professor Vladimir Vantsevich (L) reviews the work of Barys Shynokau, a doctoral candidate in automotive applications engineering at Belarus National Technical University who studied at Lawrence Tech for six weeks in the fall.

N.Y., which make sensors and measuring devices widely used in the automotive industry to enhance vehicle performance.

When Vantsevich and students began working on the 4x4 vehicle chassis dynamometer with independent wheel control at Lawrence Tech, Kistler provided two wheel transducers, valued at \$270,000, that take six measurements simultaneously from wheels rotating on the dynamometer, which is used for unique tests in different road/off-road conditions under the four wheels. The company also provided the first cash grant for a research project using the dynamometer.

Next Vantsevich joined Kistler's Dieter Barz from Germany and John Kubler and Aaron Schumacher from the American subsidiary in writing a research paper for the Society of Automotive Engineers (SAE). The paper resulted from research at Lawrence Tech using the equipment donated by Kistler. Vantsevich made presentations at Kistler symposiums in 2005, 2006 and 2007.

Kubler also joined the mechatronics advisory board that helped create the

original course content.

The relationship will advance to a new level in April 2008 when Barz is scheduled to come to the Lawrence Tech campus to give lectures in the course "Mechatronic Systems Implementation – I." Barz will attend the SAE Congress and present three lectures during his visit.

Another good example of cooperation is National Instruments (NI), which donated hardware and software for the lab. NI engineers teach 42 hours in eight core courses on the mechatronics program – so all students will be experts in LabVIEW and will be able to apply it to designing robotic systems, vehicle and other types of mechatronic systems. In return, Vantsevich supported a NI conference with a presentation.

To further aid the faculty and staff, NI plans a free three-day, custom-designed training class in January. Lawrence Tech faculty and staff will learn to write LabVIEW programs and implement advanced models on real-time control systems. This will help improve and expand labs and workshops for students in the mechatronic systems degree program and in a new mechatronics core course for undergraduates.

This type of cooperation between private industry and academia is a "win-win" relationship, according to Vantsevich.

"We need industry involvement to stay on top of the latest achievements in this field. They provide new information and knowledge about what's being used in the field," Vantsevich said.

Students gain insights into how to design equipment, which is normally proprietary information rarely shared outside a company.

Enrollment: Trend Is Up for Many Programs

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- Computer science, up 30 percent.
- Electrical engineering, up 18 percent.

All four academic colleges showed overall increases, led by the College of Arts and Sciences, which was up 20 percent. The College of Management was up 8 percent; the College of Architecture

Giving Tree Supports Southfield Goodfellows



The Staff Senate Community Outreach Committee collected 150 Christmas presents under the Giving Tree in the Buell Building atrium for the Southfield Goodfellows to distribute. The committee members were pleased that the kindness and generosity of the Lawrence Tech community made the holidays more enjoyable for so many children. Getting together for the final collection on Dec. 7 were (L-R) President Lewis Walker, Varvara Burden, Staff Senate Chair Gabe Sauvie, Community Outreach Committee Chair Beth Gierada, Martha Thompson, Leslie Michalik, Reka Dobbins and Tammy Botzen. Other committee members are Celia LaPinta, Debra Kollenberg, Ali Barnard, Nancy Bunton and Dorrie Frontera.

Shetty: College of Engineering's new dean

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be a catalyst of innovation with emphasis on leadership and entrepreneurship with a global view."

A registered professional engineer, Shetty received his Ph.D. in mechanical engineering from the Indian Institute of Technology in Delhi, after finishing bachelor's and master's degrees at the National Institute of Technology, Surathkal, India. He has published more than 150 articles based on his research and educational projects.

Shetty has been a principal investigator for some 30 grants in engineering education and research. Working with the Connecticut Center for Advanced

Technology, he developed a multidisciplinary research and academic program for laser applications that was funded by the Air Force. The integrated engineering curriculum developed at Hartford under Shetty's leadership, with support from the National Science Foundation, has been adopted by other engineering schools.

Shetty holds five patents. His research has been cited for pioneering contributions in the area of surface measurement in manufacturing engineering and for contributions to the fields of mechatronics and product design, fields in which he has authored two textbooks used worldwide that have been translated into several languages.

and Design, five percent; and the College of Engineering, one percent. There was an increase in enrollment in most of Lawrence Tech's 60 degree programs,

Kevin Finn, interim dean of students at Lawrence Tech, predicted that a 10 percent dip in undergraduate mechanical engineering enrollment will be short-lived if students respond to what's happening in the job market.

"The feedback we have been getting is that many companies can't find qualified engineers for the openings they have, even

here in Michigan where the economy has been soft," Finn said. "Nationwide, the job market for mechanical engineers is strong."

There were 3,985 Lawrence Tech students in the final fall census taken in November – 2,384 in undergraduate degree programs and 1,601 in graduate degree programs.

In addition, enrollment more than doubled to 624 for Lawrence Tech's undergraduate engineering program in Shanghai, China.

Honors Society Starts Cleanup Project for Evans Drain

By Timothy Bond
Vice President, Honors Society

The Lawrence Technological University Honors Society is sponsoring an effort to clean up Evans Drain, the small tributary of the Rouge River that travels along the south side of the Lawrence Tech campus near the College of Engineering.

The Honors Society has entered its third year, and the University has formed a special practical course called the Junior Honors Project. Similar to each student's senior project, the Junior Honors Project is student-directed with a limited number of guidelines. Unlike senior projects, Junior Honors Projects are carried out by cooperative groups of students.

The Evans Drain project formed with an official roster of seven students and four faculty advisors, as well as much support from other members of the Honors Society and friends of Lawrence Tech. Honors Society Secretary Lauren Meganck served as the project manager.

As the first step in the project, the Honors Society held two river cleanup days, bringing in volunteers to remove the debris from the Evans Drain. The cleanup

days were held on Sept. 22 and Oct. 27.

To encourage further efforts, the members of the Evans Drain project contacted a company called EmNet and created plans for a network of water quality sensors. The EmNet network could measure multiple points in the river and transmit data on the water's temperature, pH, salinity and dissolved oxygen levels, giving a good benchmark for river health.

Initial measurements have suggested that the water has such a high salt content that it would be considered brackish water, the step between fresh water and salt water, while the dissolved oxygen levels are almost too low for aquatic life to breathe at all.

The EmNet sensor network could give students and faculty constant information on the health of the water. Unfortunately, a battery-powered, wireless-transmitting network would cost several thousand dollars. As a student group, the Honors Society cannot directly fund the network. However, Provost Maria Vaz has pledged financial support to the project, as well as advising the Honors Society on possible outside sources of funding.



The Lawrence Tech Honors Society organized two volunteer events in the fall to clear out debris from Evans Drain, a tributary of the Rouge River that runs through the Lawrence Tech campus. On Oct. 27 Honors Society members Devin Bingle, Steven Dage, John Camardese and Timothy Bond were joined by the Anderegg and Stevenson families.

NSBE Thanks Speakers

Another productive semester went by, and the National Society of Black Engineers (NSBE) would like to thank our guest speakers, mentors, members, Lawrence Tech faculty and staff.

NSBE would like to express a special thanks to our guest speakers who took time out of their busy schedules to meet with our members to share great words of wisdom and help fulfill our mission

– to increase the number of culturally responsible black engineers who excel academically, succeed professionally and positively impact the community:

- Rick Wilson and Amanda Bush, ImageSoft Inc.
- Lt. LaDonna Gordon, U.S. Navy recruiter.
- Quinton Myers, NSBE-Lawrence Tech alumnus.

Johnson Conference Room Dedicated



The College of Arts and Sciences dedicated the Dr. Larry Johnson Conference Room on Dec. 6. Lawrence Tech's business management bachelor's degree program experienced strong enrollment growth under Johnson's leadership before his death in February 2005. A bequest from him helped create the conference room as part of a remodeling of the dean's suite. A large crowd attended the dedication ceremony and unveiling of Johnson's portrait, including (L-R) University Advancement Vice President Stephen Brown, President Lewis N. Walker, Johnson's daughter Whitney Schillack and his friend Ken Bresnay, Professor James Rodgers and Dean of Arts and Sciences Hsiao-Ping Moore.

Lawrence Tech and Church Offer Parent Training Program

Psychology faculty and advanced clinical psychology students at Lawrence Tech are teaming up with Hope United Methodist Church of Southfield to offer a training program for improving parent-child relationships.

Funded by a grant from the Southfield Community Foundation, the six-week STEP-based parent training program, "Building Your Own PC:

A Program to Develop Parent-Child Relationships," will begin Jan. 16, 6:30-8:30 p.m. at Hope United Methodist Church, 26275 Northwestern Highway, Southfield. The free program is open to the public.

The program will be led by Lawrence Tech Psychology Program Director Matthew Cole, school psychologist Pamela Bard of the Southfield Public Schools and Rev. Leon Jefferson of Hope United Methodist Church. Advanced clinical psychology students will help lead the sessions.

The complete STEP program will be offered, including communication skills, effective consequences, drug awareness and understanding feelings through role playing and teaching exercises. Each parent will receive a program book for Systematic Training for Effective Parenting (STEP).

The program is needed now because of a variety of issues including single parents, school drop outs in early childhood, violence in the home, and problems communicating, according to Cole.

"Parents and their children are facing a vast array of stresses that compete with healthy communication and mutual respect, and the STEP program will help parents acquire strategies and tools to improve communication and foster mutual respect," Cole said.

Jefferson said the need for parent training was identified by a church membership survey and corroborated at a series of town hall meetings conducted by the Southfield Community Foundation. Under the leadership of Rev. Carlyle Stewart III, the senior pastor, the church offered a program on a smaller scale to its membership in 2006.

Jefferson said taking the class should not be viewed as an indication that something is wrong, but rather as an opportunity to improve what may well be a good parent-child relationship.

"We as a society take classes to stay current in our professions and exercise to strengthen our bodies and minds," Jefferson said. "We should also take part in learning experiences that will build our most important relationships."

More information on the STEP program is available at www.steppublishers.com/history.

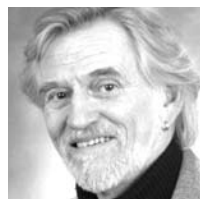


Matthew Cole

The Best Teaching Philosophy Is Flexibility

By Professor William S. Allen
Professor of Architecture

It is challenging to quantify a teaching philosophy that has evolved over 35 years; for in truth, it changes and continues to change. It adapts to each new group of students, their unique abilities, and the



William S. Allen

needs of society that they will address. In short, it must be flexible.

Technology is the frontier of the 21st century.

Researchers are the explorers; teachers, the guides.

Theory and Practice has been my constant guide – a balance. I believe that when you demonstrate an application of theory, it will be embraced by the students in practice and in their pursuit of knowledge.

A recent candidate for the position of dean of architecture told me that the secret of good administration is to find out what peoples' talents are and then match them to a task; I liked that. I attempt to identify my students' strengths and build a base of knowledge with them.

I believe that by teaching we learn. Therefore, when I see one student who grasps a challenging concept, I direct him/her to work with those students who are having difficulty. This leads to a sharing of knowledge that builds teamwork and leadership skills.

To question and challenge is an important component of my teaching philosophy. I encourage students to challenge and debate; how to find the questions as well as answers.

¡Say It in Spanish!

Knowing a second language can boost your career and also spice up your daily conversation. To learn about Spanish courses offered at Lawrence Tech, contact Monica Stevens at m_stevens@ltu.edu or ext. 3509. Here are some examples of what you will learn:

No funciona - It doesn't work!

(*noh foon-see-on-ah*)

¡Mucho gusto! - Pleased to meet you!

(*Moo-choh-goose-toh*)

Soy ingeniero - I am an engineer

(*Soy in-hen-knee-err-oh*)

Soy arquitecto - I am an architect

(*Soy arc-key-tec-toh*)

correo electrónico - Email

(*cor-reh-oh el-ek-tron-ee-koh*)

Honesty is a component of my philosophy. When I don't know the answer, I have learned to admit it. I then search for the answer and ask the students to do so as well. I strive to engage the students in their education – to become a "stakeholder".

I view my students as a part of my family. I think about how I would want a professor to interact with my children. I encourage them; push them beyond their perceived ability. I laugh with them, smile a lot in an effort to establish a positive learning environment.

I have tried to learn from my mistakes. Teaching is, in my opinion, a reciprocal relationship; listening, really listening, to the students earns their respect, and in many instances provides me with insights that I might not have considered before. It is not as necessary that students agree with me, but rather that they are able to formulate an opinion that can be well defended.

Perhaps I could best sum up my philosophy as follows:

- **Truth & Trust:** without truth, there can be no trust, no sharing.
- **Hear** what students are saying; asking.
- **"I"** in many instances should be replaced with we or us, but not lost.
- **No:** a word that should be used only after very careful reflection.
- **Kindness** and understanding build respect, dialogue, and a community for learning and living.
- **Research/Reciprocate:** Learn about the uniqueness of a student and I will grow.
- **Each:** Every student is a unique opportunity to learn.
- **Search and Smile:** The search for questions is as important as finding the answers.
- **Practice/Patience:** To practice what you teach (preach) is to lead by example.
- **Evaluate:** To evaluate my effectiveness in class, lecture and seminar each day.
- **Challenge:** To challenge the student, and myself, to think outside the box: creativity.
- **Travel & Think:** To experience diversity of thought and theory throughout the world -- the ultimate learning laboratory.

Wisdom is knowledge honed by experience. When you see in a student's eyes that he/she has grasped a difficult concept – now that is a Kodak moment.

University Collects Coats for Cass Community Social Services



In October the Staff Senate Community Outreach Committee began collecting coats and blankets for the clients of Cass Community Social Services in Detroit and made a delivery on Dec. 4. The committee filled up two vehicles with donations from all departments on campus and many student organizations. In the photo (L-R) are organizers of the coat drive, Leslie Michalik, Debra Kollenberg and Staff Senate Community Outreach Committee Chair Beth Gierada. Last spring the committee collected food and staples and this spring will be collecting small toys, books and gifts for the patients at Children's Hospital in Detroit.

Architecture Professor Combines Experience with Showmanship

After more than 30 years of teaching, architecture professor Will Allen has found that some showmanship can help drive home important lessons. When lecturing on building circulation, he often enters the architecture auditorium in a wheelchair and waits for his students to figure out how to get him down to the front. When lecturing on plant materials, he often hands out roses. "I like to teach by making a statement," Allen said.

Allen looks for ways to get the attention of students in his big lecture classes for site-design Integrated Design Studio (IDS 1). He also teaches Visual Communications II and Environmental Issues.

In addition to showmanship, his teaching approach incorporates his varied experiences as a landscape architect, an artist, a local government official and an extensive traveler.

After earning a degree in landscape architecture from the University of Michigan, Allen was in private practice when he started teaching at Lawrence Tech as an adjunct professor in 1972. It didn't take him long to decide to become a full-time faculty member.

"It's been said that a man who loves his work doesn't have a job," Allen said. "I never think of teaching at LTU as a job, but rather as a privilege. Every year I grow to love it more."

Until three years ago he maintained a small private practice in landscape architecture and for many years took his silk-screen prints to as many as a dozen art fairs a year.

He is a member of both the Zoning Board of Appeals and the Planning Commission for Waterford Township.

He also emphasizes the importance of academic discipline. Borrowing a practice from the humanities, he requires students in his IDS 3 landscape design global lecture class to keep a notebook with a bibliography to accompany their hands-on work in the studio.

"Sometimes students think it's a make-work exercise when they start out, but they find that it helps them explore different avenues," Allen said. "It also helps them prepare for the mid-term and final exams."

Interior Architecture Students Learn Valuable Lessons From Cave Dwellings

By Eric Pope
Tech News Editor

Last semester Lawrence Tech interior architecture students contributed to the efforts to save a village of cave dwellings in China while learning about centuries-old traditions in sustainable architecture.

Architecture faculty members Jin Feng and Leonard DiLaura had 25 students design lodging for eco-tourists in a junior design studio and a graduate studio dealing with retail and hospitality spaces.

A native of Beijing, Feng came to the United States in 1985 and earned a doctorate in architecture from the University of Michigan. In 2004, he started a research project with a Chinese professor whose childhood home, Dang Jia Shan, a remote village of cave dwellings 400 miles west of Beijing, had lost a large portion of its population due to a mass migration to urban areas.

Under a research grant from Earthwatch, Feng and his wife Jiang Lu, who teaches interior design at Eastern Michigan University, have traveled to China in the summer to join Prof. Anrong Dang of Tsinghua University to study different aspects of the local culture and customs of a farming community that has endured in a predominantly dry area without many trees.

For centuries these Chinese farmers lived in caves built in cliffs. Most families had three caves and moved into one in the winter in order to conserve heating fuel. The caves usually maintain a constant temperature of 72 degrees in the summer, and don't need much fuel for heating during the winter months. A sub-floor circulation system for heating is a good example of sustainable design that is now gaining more attention in architecture, according to Feng.

"If we don't do anything, the culture of these cave dwellings will be lost," Feng said. "We realized that this lifestyle is a good example of sustainable living and design."

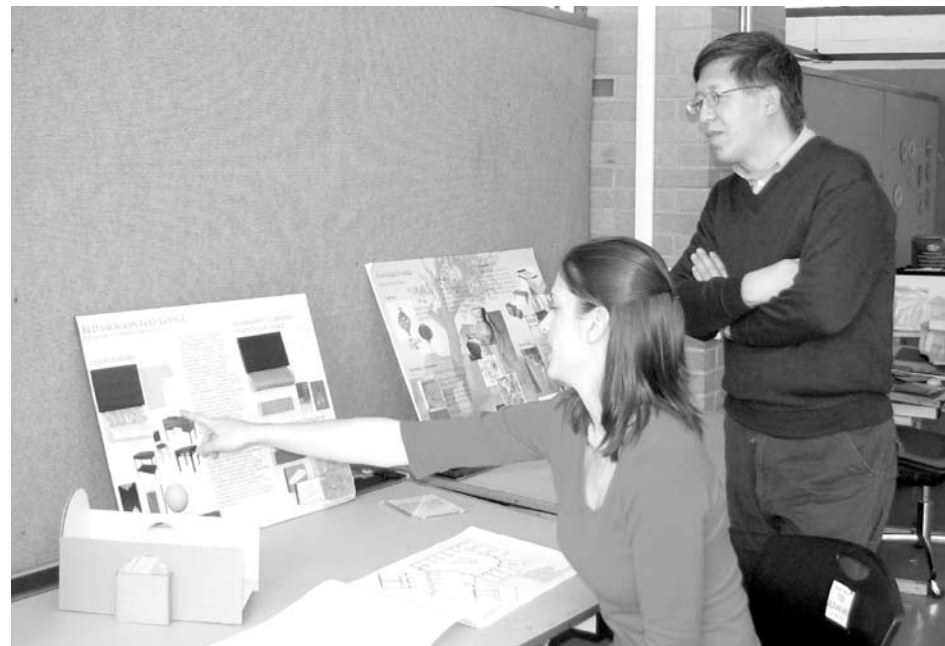
The Earthwatch research project has uncovered one possible way to keep the village alive – tourism. Americans have paid around \$3,000 for the privilege of coming to the village to help with the research. Now the researchers are exploring the possibility of making the village an eco-tourism destination.

That's where the Lawrence Tech studio projects can help. Students were asked to create lodging for tourists in a structure that combines modern design and sustain-

able features of the cave dwellings. They designed free-standing structures that incorporated some traditional features of Chinese architecture.

Feng said this design project is a nice combination of traditional folkways from another culture and sustainable architectural design. "We want our students to have a global perspective, and this project gets them out of their comfort zone," he said. "They learn about a more sustainable lifestyle, and sustainability is an important part of their designs."

Feng and his wife will return to China this summer to continue their research at Dang Jia Shan. Some Lawrence Tech students may make the trip.



Architecture faculty member Jin Feng (R) listens as interior architecture major Nicole Steiner points out some of the features of her junior design studio proposal for an eco-tourism lodge in China.

Lawrence Tech Supports DARPA Urban Challenge Team

By Brace Stout
Graduate student, computer science

On a cool morning in early November in Victorville, Calif., 11 vehicles sat at their starting positions with engines running. They were competing for a top prize of \$2 million, yet even the most avid auto racing fans couldn't identify the drivers in the race.

That's because the vehicles were autonomous and didn't have drivers.

Welcome to the DARPA Urban Challenge sponsored by the Defense Advanced Research Projects Agency, the central research and development organization of the U.S. Department of Defense. The race of unmanned, autonomous vehicles through unknown urban streets was a follow-up to the 2005 race through

150 miles of desert terrain.

At the starter's signal, there was no revving engines, no squealing tires, no smell of burning rubber in the air. A single vehicle eased away from its starting gate and made a gentle turn onto the deserted and barricaded streets of the now-closed George Air Force Base. Starting times were staggered to avoid the confusion and collisions as the vehicles visited a number of locations in order.

"Track A" teams received up to \$1 million in "technology development" funds. One of the "Track B" teams that didn't get that assistance was Team Cybernet of Ann Arbor.

Team Cybernet's entry was a "cybervan" known as Armadillo, which had been the family vehicle of Heidi and Chuck Jacobus, owners of Cybernet

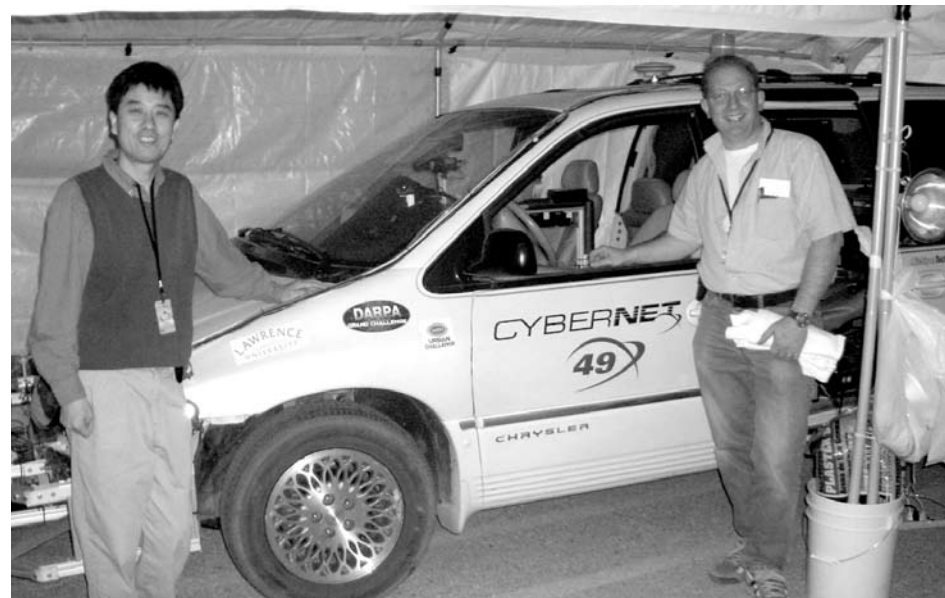
Systems Corp. in Ann Arbor. Armadillo was fitted with sensors, servos, actuators, computer systems and software that enabled it to navigate city streets safely on its own.

Realizing that they could benefit from the autonomous robotics expertise at Lawrence Technological University, Team Cybernet's leaders approached CJ Chung of the Mathematics and Computer Science Department in late 2006. What resulted was a year-long collaboration culminating at the Urban Challenge national qualifying event held ten days prior to the finals.

Lawrence Tech computer science graduate students Marcus Randolph and Brace Stout contributed software expertise in the areas of sensor data acquisition and data visualization. They both had previous experience from participating in the annual Intelligent Ground Vehicle Competition in 2006 and 2007. Lawrence Tech won the top design award in 2007 with the H2Bot II robot.

In part due to their efforts, Armadillo performed admirably in the qualifying round, passing many of the fundamental operational and safety tests. However, unanticipated course configurations, sensor malfunctions and calibration errors prevented Armadillo from making the finals.

Even so, many praised Team Cybernet for achieving more with \$30,000 and an 11-year-old minivan than some of the teams with million-dollar budgets. Team leader Chuck Jacobus said that Armadillo achieved the highest ratio of "autonomous miles per dollar spent" of any vehicle in the competition.



Associate Professor CJ Chung (L) and graduate student Brace Stout went to Victorville, Calif., to help Team Cybernet compete in the national qualifying event for the DARPA Urban Challenge.

Student Government: We Want to Hear From You

By Andrew Queenan
Student Government President

Welcome back, fellow students. I hope you all had a great holiday break. My name is Andrew Queenan, Student Government president here at Lawrence Tech for the 2007-2008 academic year. I am a third-year architecture student and am active not only in Student Government, but also currently serve as treasurer of Sigma Pi and work on campus at the North Housing information desk.

This year has been a wild ride for me. Kevin Finn is the new interim dean of students, and Student Government has been working with him all semester to help make Lawrence Tech a better place for all students. There is an executive board bi-weekly meeting where we discuss many of the issues that face students here at LTU.

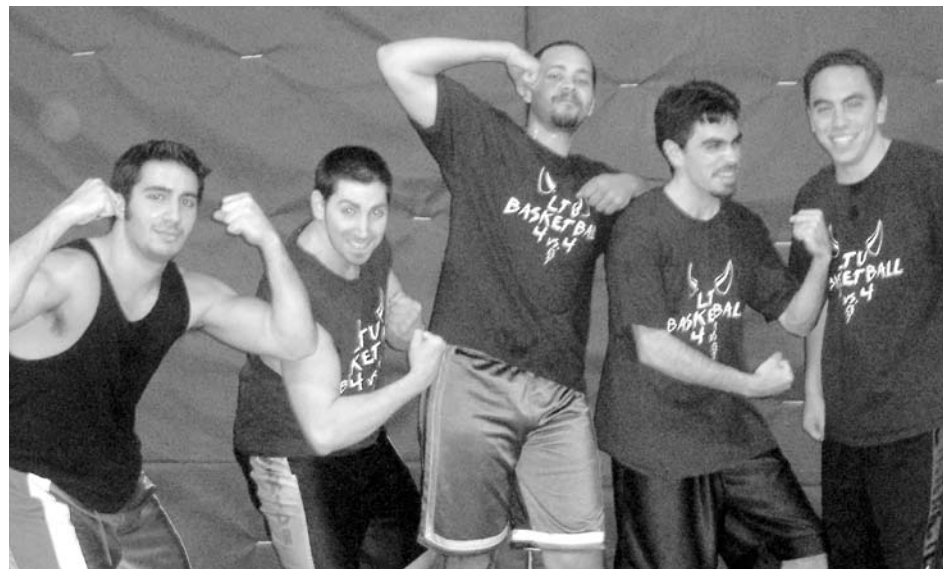


Andrew Queenan

We have had many accomplishments in just the last semester that we are very proud of. We have brought some on-campus fundraisers to the attention of the student body. Campus Visit Days and Exploration Days are now utilizing students in order to give prospective students a better idea about what it's like to be here at LTU. These recruitment events are not only helping the school to increase enrollment and our student body, but they are giving back to student organizations.

After the virus attack in October, the E-board and Kevin sat down and discussed some issues. A committee has been established that encompasses students as well as staff to evaluate some of the computer concerns that face our campus. This committee is headed by IT Service Delivery Executive Director William Wachob, and the meetings provide a way for him to gain feedback from students. Remember, however, that this attack was not the IT department's fault, and while some may not realize it, these men and women have spent countless hours since the attack attempting to restore our full service. So please be courteous to these employees.

Some of our goals for the coming semester are big. The first thing that will be coming to campus in the near future is a student information desk. This desk will be a central location where students can go to find out what is going on around campus. We will have information on student organizations as well as the events



Team JAM'N is at the top of Lawrence Tech intramural basketball after winning the fall semester tournament in December. Team members are (L-R) Nick Shango, Jon Arafat, Bryan Cook, Mike Rojas and Alex Rojas. They defeated Dynasty in the finals.



Participants in the Beginner Racquetball Tournament included (L-R) in the back row, Seth Seifert, Nathan Gardner and Andrew Bow; and in the front row, Kyle Post, winner Roger Blanton and Mike Orlandoni.

they are holding.

Another big event we have planned is a training session for student organizations so they can learn a few things such as how to run a meeting, how to raise funds for their organization, and how to utilize their advisor – and the list goes on. Of course, the biggest goal of all is to increase student involvement. There are so many different organizations that I am sure you will find one that is right for you.

As always, we need your feedback. Student government meetings are held every other Wednesday at 12:15 p.m. in M218 (Buell Building). Interim Dean of Students Kevin Finn and Student Activities Coordinator Leslie Wilson are always present so that they can hear your concerns right away. We held a goal-setting meeting in December and will have another one at our first meeting of the semester on Jan. 16. Please come to voice your opinions. After all, that is what Student Government is here for. We want you to have the best experience possible at LTU.

Tech-Rec Bulletin Board

Ridler Anniversary

The Recreation Department celebrated the 20th anniversary of the Ridler Field House by giving away many prizes in a drawing. Parisheel Joga won the grand prize, an iPod Nano. There were 35 other winners of prizes worth more than \$1,000, including Tech-Rec T-shirts, two heart rate monitors from All-Pro Exercise, a pair of Pistons tickets and \$200 worth of gift certificates at Dick's Sporting Goods.

Fitness

"New Year = New You" is the theme for the free fitness classes offered at the Field House. Contact sturec@ltu.edu to find out about class offerings, days and times.

Tech-Rec Schedule

- Jan. 25, sign-up deadline for fitness class, cardio-boxing, boot camp, etc.
- Jan. 25, indoor soccer in Royal Oak (Fridays), 2:30 p.m.
- Jan. 25, basketball 4x4 team entry deadline. The games begin Jan. 29.
- Feb. 1, paintball outing.
- Feb. 8, intermediate racquetball tournament.
- Feb. 10, snow ski outing at Alpine Valley.
- Feb. 15, rock wall climb at Planet Rock.
- Feb. 22, table tennis tournament (doubles).

Lawrence Tech Inaugurates 10 Degree Programs in Lansing

Lawrence Tech will offer 10 degree programs at Lansing Community College (LCC) when classes begin at its new University Center Jan. 21.

The 35,000-square-foot University Center will house instructional space, offices, meeting space and a student services center for six universities.

Students attending classes in Lansing can earn Lawrence Tech bachelor's degrees in architecture, computer science, electrical engineering, engineering technology, information technology, mechanical engineering and psychology.

Graduate students can earn master's degrees in computer science, educational technology and engineering management, as well as a certificate in energy and environmental management.

Lawrence Tech pioneered academic programming for part-time and adult students 75 years ago, and the University Center provides an opportunity to make degree programs much more acces-

sible and convenient in mid-Michigan, according to Lisa Kujawa, assistant provost for enrollment at Lawrence Tech.

"The new University Center will provide Lansing-area students with more options as part-time adult learners, particularly at the master's degree level," Kujawa said. "We are delighted to make a distinctive Lawrence Tech education available to area residents, including state government staff. The University Center will provide a path to many exciting career choices."

Lawrence Tech will be joined at LCC's University Center by Ferris State University, Northwood University, Siena Heights University, the University of Michigan-Flint and Western Michigan University.

To learn more about Lawrence Tech programs at LCC, visit www.ltu.edu/lcc, or contact Kimberly Light at (517) 483-9724 or lansing@ltu.edu.



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Blue Devil Hockey Team Poised for National Championship Run

After completing the most successful first half of the season in Lawrence Tech hockey history with a 13-4 record, the Blue Devils have set their sights on the national championship tournament to be held this year in Rochester, Minn.

"It's a great feeling," Coach Kevin Gee said. "The kids and the coaching staff have all worked very hard at being prepared every night. It's nice to have something to show for it."

On Jan. 4 the Blue Devils traveled to Ft. Wayne to start the second half of the season by defeating the IPFW Mastodons. After a slow start, Lawrence Tech found a groove and scored four unanswered goals. Freshman Josh Slitter (Pinckney High School) scored his first collegiate goal, which proved to be the game winner. Goalies Tom Beetham and Matt Beck combined for 28 saves to preserve the victory.

The MCHC all-star game was held Jan. 5 in Midland with plenty of representation from Lawrence Tech. Senior goalie

Beetham, junior defenseman Ben Sultana, and Dan Baker, and forwards Kyle DeHenau, Andy Kruczynski and Captain Andrew Aulerich were all on the roster of the MCHC East Division team. Both Kruczynski and Dehenau are four-time all-stars for the Blue Devils.

The East division won, 15-9, as players from Lawrence Tech, Oakland University, Northwood University and Saginaw Valley State chipped in points for the win.

The weekend featured the annual skills competition, where each team was awarded points for players winning individual events. Baker won the hardest shot competition with an 87 mph blast. Goalie Tommy Beetham was the star of the show, stopping all shooters en route to winning the breakaway and rapid-fire competitions for the East.

Keeping up the same record-setting pace in the second half will be no easy task for the Blue Devils. The schedule for the upcoming weeks includes some tough opponents, such as perennial powerhouse Hope College, top-ranked Grand Valley State University, and unpredictable teams like Lake Superior State and Lansing Community College.

The task will be harder because three regulars will be missing. Fan favorite



This year's Lawrence Tech MCHC all-stars are (L-R) Andy Kruczynski, Dan Baker, Kyle DeHenau, Andrew Aulerich and Ben Sultana. Goalie Tommy Beetham is in the front.

Eric Reinhardt has transferred to another college to get more specialized training in his major. "Rhino," as he is affectionately known by his fans, is expected to continue to contribute to the team as a volunteer assistant coach.

Two players have been ruled ineligible for the second half. Defenseman Justin Jack and forward Kellan Pyszk will be sidelined for an undetermined length of time due to academic issues. "It's always tough when you lose some good players. They need some time away from the rink to get back on track," Gee said.

Gee wasted no time retooling to fill the hole left by Reinhardt, adding Grand Valley State University transfer Levi Parkinson (Milford/Milford Prep). Parkinson is the brother of Lawrence Tech standout forward Rich Parkinson, who already has 25 points this season.

"Levi will fill a big hole for us, that's for sure. He's big, strong, and has a nice touch around the net," Gee said.

The Blue Devils have plenty of firepower returning for the second half. Forward Andy Kruczynski is leading the way with 19 goals and 11 assists for 30 points in 17 games played. Defenseman Ben Sultana and Dan Baker, who anchor the Blue Devil blue-line brigade, both average well over a point per game.

The Blue Devils have some big home games coming up at the Southfield Sports Arena:

- Jan. 19, Grand Valley State, 7:30 p.m.
- Jan. 26, Lake Superior State, 7:30 p.m.
- Feb. 2, Lansing, 7:30 p.m.
- Feb. 8, Hope College, 9:30 p.m.
- Feb. 9, Saginaw Valley, 7:30 p.m.

The regional playoffs begin Feb. 15.

As always, tickets can be purchased on game day at the Southfield Sports Arena, and parking is free. For more information, see the Blue Devils' website at www.ltu.hockey.com.

Ridler Field House's 20th Anniversary Celebrated



Student Recreation Director Al McLaughlin (L) and President Emeritus Richard Marburger unveiled the framed photo of Don Ridler during a week of festivities in December to celebrate the 20th anniversary of the opening of Ridler Field House. Building the field house was a major accomplishment for Marburger during his presidency. The building was named after the longtime athletic director at Lawrence Tech who coached nine different sports and guided the men's basketball team to eight national tournaments, including the National Invitational Tournament in 1951.

Nanotechnology at Lawrence Tech

The Center for Innovative Materials Research (CIMR) at Lawrence Tech is conducting tests on the possible uses for the exceptional tensile strength of carbon nanotubes (CNTs) in reinforced concrete.

Due to the lack of toxicological data, many countries take precautionary measures and handle CNT fibers as asbestos. Working in collaboration with the National Research Institute of Denmark, Assistant Professor Elin Jensen is conducting a feasibility study on CNT particle release during production, drilling, cutting and demolition.

Meanwhile, Assistant Professor Changgong Zhou of the Natural Sciences Department, working in collaboration with Michigan Technological University, is doing postdoctoral research on the interaction of laser beams with nanoparticles. Some unexpected phenomena have been recorded for aerosol nanoparticles of various metals, including silver and gold. A better understanding of the interaction could open broader application areas for nanotechnology.



Lawrence Tech center Eric Reinhardt wins the face-off during a December game against Calvin College, while wingers Rich Parkinson (R) and Captain Andrew Aulerich (L) get a jump on their opponents.