Two Donors Encourage More Support for Solar Decathlon Team

Denso International America and Masco Corporation Foundation are challenging the Michigan business community to support Team ALOeTERRA, Lawrence Technological University’s entry in a prestigious international competition for building a solar-powered home.

Lawrence Tech is one of just 20 universities – and the only one in Michigan – competing in the U.S. Department of Energy’s Solar Decathlon competition to build an 800-square-foot home that supports its own energy needs through solar power and generates additional electricity to run a small vehicle and a home office. The field includes MIT, Carnegie Mellon, Cornell and universities from Canada, Germany, Puerto Rico and Spain.

More than 30 Lawrence Tech students on Team ALOeTERRA will design and build a full-scale home to be disassembled, transported and reassembled as part of a “solar village” exhibition on the National Mall in Washington, D.C., in the fall.

Denso has committed $75,000 as a leadership gift. The leading automotive supplier wants to see other automotive companies in Michigan support efforts to improve energy sustainability in the United States, according to Denso Vice President John Voorhorst.

“Sustainability is one of Denso’s core values. As an international corporation, we feel a responsibility for stewardship of the earth’s natural resources,” Voorhorst said. “Automotive companies in Michigan should be very supportive of projects like the Solar Decathlon competition.”

Masco Corporation Foundation is contributing $50,000. Its sponsoring company, Masco Corporation, is a world leader in the manufacture of home improvement and building products and is providing an additional gift of home products in support of the construction project.

“Many of our products are targeted at increasing energy efficiency. We support the Solar Decathlon competition because (continued on page 2)

Lawrence Tech Pioneers Architectural Work/Study Program

Lawrence Tech’s College of Architecture and Design is partnering with six architectural firms in the Detroit area on a pioneering work/study program for students seeking a master’s degree in architecture. Students normally take two years to complete this accredited degree program, which is a prerequisite for professional registration in the field.

Under Lawrence Tech’s new work/study scholarship program, students can receive scholarship assistance covering about half of their tuition and are employed approximately 20 hours per week by one of six firms. Lawrence Tech is now accepting applications for the 2007 fall semester. The deadline is Feb. 1.

The participating architectural firms have each agreed to provide part-time jobs for two students over a four-year period and will contribute $25,000 to help cover the scholarships.

The firms are JPRA Architects of Farmington Hills, Albert Kahn Associates of Detroit, Harley Ellis Devereaux of Southfield, DSA Architects of Berkley, SmithGroup of Detroit and Ann Arbor, and Victor Saroki & Associates Architects of Birmingham.

Glen LeRoy, dean of the College of Architecture and Design, said the new program is designed to attract the “best and the brightest” students with bachelor’s degrees in architecture, including alumni of Lawrence Tech’s undergraduate programs and top students from other parts of the country.

“This is a major breakthrough in financial aid for graduate students in architecture. This new partnership with leading local firms has benefits for all – the students, the firms and the university,” LeRoy said. “This enables us to compete more aggressively on a national basis.”

The new program will be targeted at approximately 80 “feeder schools” around the country offering a bachelor of science degree in architecture.

Dennis King, CEO of Harley Ellis Devereaux, hopes the work/study program will gain the attention of top students for his firm and serve as a recruiting tool.

“In the last 20 years it has been hard to attract people to the Detroit metropolitan area because of its rust belt image,” King said. “We want top people to experience the area and learn about our organization.”

For information on this program and other financial assistance programs for architecture graduate students, see http://ltu.edu/architecture_and_design/architecture/gradscholarships.asp.

Lawrence Tech Ready to Ramp Up Online Classes

By Eric Pope
Tech News Editor

Taking classes online is becoming an increasingly popular and important option for many Lawrence Tech students.

LTU Online was a goal of Lawrence Tech President Lewis N. Walker when he was provost, and it was approved by the Board of Trustees in March 2006. Less than a year later, about 250 students are enrolled in 23 online courses for the spring semester. The LTU Online office is in the Buell Management Building.

Graduate certificate programs in project management, nonprofit management and architectural management are now available entirely online.

Lawrence Technological University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. That organization requires additional authorization when more than half of the coursework for a degree program is delivered online. In February, it will consider extending Lawrence Tech’s accreditation to include three online degree programs.

Once authorization is received, LTU Online would offer a bachelor’s degree in information technology, a master’s of engineering management, and a master of business administration. More courses would be offered online to support the degree programs.

Online courses cut down on commuting and make it easier for non-traditional students to fit classes into their schedules already packed with work and family commitments. Lawrence Tech degree and certificate programs will become more accessible to students outside the Metro Detroit area.

“The anytime, anywhere convenience of online programs is an exciting opportunity for professionals who can’t commute to our campus,” said Virginia North, assistant dean for graduate studies at the College of Architecture and Design.

In the process, LTU Online is developing tools and course content that enhance (continued on page 2)
Farina Named Staff Member of the Month

Debbie Farina of the University Advancement office has been named staff member of the month for November by the Staff Recognition Committee. Farina plays an integral role in the development and coordination of Lawrence Tech fundraising events.

Recently Farina was called on to handle many of the responsibilities of the vacant alumni relations position. She took the lead in planning and supporting the needs of Lawrence Tech’s Alumni Association, which included the annual dinner dance in November and the Brunch with Santa event that drew more than 180 participants.

“During all of this, Debbie has kept up with her regular duties and maintained a very positive attitude,” a member of the advancement team wrote.

“She is always willing to volunteer ideas and offer assistance to accomplish the needed tasks, even if that means putting in extra hours at odd times.”

Entrepreneur to Speak

Raymond W. Gunn, managing director of Wingspan Partners, LLC, of Troy will be the first speaker in this year’s engineering entrepreneurship guest lecture series. He will speak on Thursday, Feb. 8, at 2 and 5:45 p.m. in room S100 in the Science Building.

Gunn founded Wingspan to assist entrepreneurs in realizing their potential. He has been the principal financial and strategic architect in the funding, growth, and sale of 10 early-stage ventures/companies.

Online Classes

The educational experience for courses in the traditional classroom setting, according to LTU Online Executive Director Alan McCord. Examples of these include practitioner interviews and other streaming video content, podcasts, narrated Powerpoint presentations, test question banks, and the use of web collaboration tools.

He said a 2005 survey showed that 40 percent of Lawrence Tech graduate students would be interested in taking at least some courses online. A recent national survey showed that 19 percent of students want to take all their courses online, and 17 percent of all students are taking at least one online course.

“The student interest is really there,” McCord said. “Students are starting to enroll earlier in online classes, and we’re getting inquiries about what’s going to be offered online in upcoming semesters.”

While the majority of students still want to take at least some of their courses in the classroom, online courses provide a convenient alternative that many students will need at some point during their academic careers, McCord said.

Online programs at some colleges have gotten the reputation for being too easy, but at Lawrence Tech the emphasis has been on maintaining quality. Professors have to be meticulous in preparing their materials, according to McCord, and students have found that coursework and resources can be more comprehensive online than in the classroom.

“Students are noticing how rigorous the program is,” McCord said. “Everything has to be very detailed and planned in advance. It has to be more structured and organized.”

Richard Bush, director of undergraduate management programs in the College of Management, has found that online courses can improve the educational experience for both students and professors.

“Right now there’s a lot of effort to make sure quality is equal to or exceeds what is taught in the classroom,” said Bush, who teaches two online IT management courses.

Bush enjoys being able to respond to student inquiries whenever his schedule permits. He often gets back to students outside of office hours and has even answered email in the airport. Sometimes students don’t get answers they need during or after class, but Bush finds that he can give a question his full attention when he responds online.

“There is much more one-on-one interaction online,” Bush said. “You don’t have the interruptions and distractions that sometimes occur in the classroom setting.”

For more information, see www.ltu.edu/ltuonline.

Degree Programs to be Offered in Lansing

Lawrence Technological University will offer 11 degree programs at the new University Center scheduled to open at Lansing Community College (LCC) in January 2008.

The 35,000-square-foot University Center will house instructional space, offices, meeting space, and a student services center for eight universities. Lawrence Tech will offer the highest number of degree programs.

Students attending classes in Lansing will be able to earn Lawrence Tech bachelor’s degrees in architecture, computer science, electrical engineering, engineering technology, facilities management, information technology, mechanical engineering, and psychology.

Also available will be master’s degrees in computer science and educational technology, an MBA in engineering and management, and a certificate in energy and environmental management.

Students with an associate’s degree at LCC will walk across the street for a bachelor’s degree from Lawrence Tech.
Lawrence Tech Gives Generously

By Eric Pope
Tech News Editor

Lawrence Tech students can now increase their chances of excelling in the global economy by taking a minor in Spanish.

The University’s first foreign language minor has been approved for launch in 2007. Students will complete a minimum of 15 credit hours, typically taken over five semesters, to earn a minor through the Department of Humanities, Social Sciences and Communication in the College of Arts and Sciences.

The new Spanish minor begins with a sequence of three existing courses in Spanish focusing on vocabulary, grammar, speaking, and writing. The fourth course in the foundation sequence will be changed to Business Writing, said speaking Spanish is a major advantage for international companies considering the Latin American market.

Recruiter Index, 88 percent of recruiters Korn/Ferry International Executive Recruiter Index, 88 percent of recruiters to be critical for success in international doi:10.1093/ihumin/47.1.28. The proposal for the new minor was developed by Monica Stevens, an adjunct faculty member born and raised in Mexico who has over nine years experience at Lawrence Tech. Stevens, who has master’s degrees in international business, Spanish, and Professional and Technical Writing, said speaking Spanish is a major asset for doing business in today’s global economy. It is the third most common language in the world behind Mandarin and Hindi. It is spoken by 40 million people in the United States, and it is the foreign language most requested by American companies.

According to a recent survey by Korn/Ferry International Executive Recruiter Index, 88 percent of recruiters for international companies consider the ability to speak more than one language to be critical for success in international business – even more important than having an advanced degree.

Speaking Spanish is a major advantage in doing business in Latin America, where many American companies such as General Motors, Ford Motor Co., American Axle and Mahle Corp. have had a presence for many years. Many have moved production facilities to Latin America or have opened new export operations.

When you only speak English, you are always dependent on the ability of others to speak your language. When you have to rely on translators, that can be a major disadvantage in a business setting,” Stevens said.

Speaking the language makes it much easier to navigate around a foreign country and to gain an understanding of the culture that can help in business negotiations. “You are more comfortable in a foreign environment and that will increase your chances of success.”

Library Offers New Tool for Bibliographies

Library staff will offer training sessions in February, and students can ask the library staff for help at any time.

“We pride ourselves on individualized service, and we will work with people for as long as it takes to get them set up,” said librarian Gretchen Weiner. “Larger universities can’t give that level of service.”

Because RefWorks is a web-based service, no downloading or installation of software is required. Users create a log-in to access their records that are stored on the RefWorks servers.

RefWorks is also a powerful tool for organizing research files and sharing information with other students. Search results from a wide variety of databases can be automatically exported into RefWorks with the click of a button. Students can store an unlimited number of records that are accessible from any computer linked to the Internet.

Users can organize and manage the references they have collected, and this information can be shared by students working in teams or by faculty members collaborating with co-authors at other universities.

RefWorks is compatible with EndNote and ProCite, and references from these can be imported easily into RefWorks.

The AAC’s hours are Monday through Thursday, 8 a.m. to 8 p.m., and Friday 8 a.m. to 4:30 p.m. The AAC is available during these times for quiet study or group study without an appointment. Rooms with white boards are available for study groups, as well as select textbooks and videos specific to the humanities, engineering, physics, and math.

To ensure time with a tutor, students should make an appointment at www.ltu.edu/aac (click on the Tutoring link). There, students can view what tutors are available for what specialties and when they are available. Otherwise, available tutors will work with students on a walk-in basis. Wednesdays are walk-in days for all tutors, with no appointments scheduled. All faculty tutors are available on a walk-in basis without an appointment.

For more information about tutoring, study skills, or workshops, call ext. 4120, or go to www.ltu.edu/aac.
In December the Michigan Department of Transportation (MDOT) held a public hearing at Lawrence Tech to explain how to “dodge the Lodge” during the construction project that will shut down parts of the freeway from February to November. In this photo (L-R), two Lawrence Tech alumni, Rita Screws, manager of the MDOT’s service center in Detroit, and Mark Sweeney, design project engineer, discuss the Lodge project with Civil Engineering Chair Nazil Grace and President Lewis N. S. Walker.

Get Ready for ‘Dodge the Lodge II’

Getting to class on time may be more challenging during the spring semester when sections of the Lodge Freeway (M-10) close down for pavement reconstruction and bridge repair between Lahser Road in Southfield and I-94 in Detroit.

The Michigan Department of Transportation (MDOT) has dubbed the construction project “Dodge the Lodge II,” and it promises to be a blockbuster sequel to last year’s project centered on the freeway’s intersection with Telegraph Road and I-696.

The project is scheduled to run from February until November, although the campus shouldn’t be directly impacted by the project for at least part of that time period.

Most Lawrence Tech commuters will dodge the bullet during the first phase scheduled to begin Saturday, Feb. 3, when the Lodge will close between Eight Mile Road and the Davison Freeway in Detroit. The freeway will be reduced to a single lane in both directions from the Davison to I-94, with some total closures planned for weekends.

The real fun for Lawrence Tech commuters begins in April when the section from Lahser Road and Eight Mile Road in Southfield will be closed. This closure will allow crews to reconstruct pavement and make repairs to 11 bridges.

Even though the overall project is scheduled to run into November, MDOT officials promise that “every attempt will be made” to reopen the Lodge between Lahser Road and the Davison freeway by early September. Contractors will lose $50,000 for every day they fall behind schedule.

“Dodge the Lodge II” will replace some of the freeway’s original pavement that was constructed in the early 1960s. Pavement on both the north- and southbound side of the freeway will be completely rebuilt from Lahser Road to Meyers Road, which is between Seven Mile Road and McNichols Road in Detroit. The section between Meyers and I-94, which was rebuilt in the 1980s, will have some surface repairs done.

The $133 million project will replace 7.3 miles of pavement, repair another 7.2 miles, and rehabilitate 50 bridges. Large sections of the freeway’s retaining walls need resurfacing, and the road shoulders have to be redesigned. Rehabilitation work is also needed on the pumping stations that keep water from pooling on the sunken roadbed.

MDOT has posted extensive information about the project on the “Dodge the Lodge II” link on its web site, www.michigan.gov/mdot. There is a downloadable brochure with alternate routes that don’t have any long-term construction planned while the Lodge project is in progress.

Check the Lawrence Tech web site, www.ltu.edu for reports on how the project is affecting the campus.

Alternate routes for northbound visitors to reach campus include Woodward Avenue, Southfield Road, Telegraph Road, I-75, and I-275. From I-275, proceed east on I-96 or I-696 to reach campus. From Telegraph Road, travel east on Ten Mile Road. From I-75, Woodward Avenue or Southfield Road, travel west via I-696 or Ten Mile Road.

For the latest information about the project and suggested alternate routes see the MDOT web site: www.michigan.gov/mdot/0,1607,7-151-9621_11008_44528---.00.html

VITRC Introduces Horizon Wimba

Beginning this semester, the Veraldi Instructional Technology Resource Center (VITRC) will utilize Horizon Wimba Live Classroom, a powerful communications program that integrates with Blackboard. It allows faculty and students to build relationships by combining state-of-the-art interactive technologies such as voice, video, application sharing, polling, and white boarding that enhance traditional best practices of instruction.

Information concerning Horizon Wimba Live Classroom can be accessed at www.horizonwimba.com/products/liveclassroom. Users can listen to a three-minute demo, sign up for a live demo, and listen to an archived demo.

Horizon Wimba provides 24/7 technical support for faculty and students at 866.350.4978 or technicalsupport@horizonwimba.com.

Campus Closing Hotline/248-204-2222

Call this number for up-to-date info on Lawrence Tech’s status. Inclement weather may affect either day or evening classes at Lawrence Tech, so be aware that storm patterns vary widely and the University may not be affected by the pattern in your immediate area. WWJ-AM950 and WJR-AM760 are the first radio stations notified if bad weather forces cancellation of classes at Lawrence Tech.

WELCOME BACK STUDENTS

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Lawrence Technological University
Alumni Association Awards

The Lawrence Tech Alumni Association presented three prestigious awards at its annual dinner dance at the Skyline Club in Southfield on Nov. 18. The Ray Award recognizes extraordinary volunteer service to the university. The “Ed Donley” Distinguished Graduate Award recognizes scholastic achievement, leadership, and community service. In the photo (L-R) are Howard Weber, BSME’51, Ray Award recipient; James Jacks, MBA’06, Donley Award recipient; Lawrence Tech President Lewis N. Walker; Alda Gapi Black, BSAr’06, Donley Award recipient; and Mike Zulinski, BSIM’74, president of the alumni association.

A Competition-based Learning Environment

By CJ Chung
Associate Professor of Computer Science

A traditional Chinese proverb says, “Tell me and I’ll forget; show me and I may remember; involve me and I’ll understand.”

I think one of the best ways to get students really involved in learning subjects is to introduce classroom competitions. Students are motivated by competition and they will understand the classroom topic better by doing. More importantly, they will be better prepared for real-world environments that are very competitive, both locally and globally.

Based on the above teaching philosophy, I have introduced some assignments as classroom competitions. For example, in the fall semester in “Intelligent Systems,” two of the seven assignments were competitions.

The first competition was to design and implement an algorithm to guess intelligently n-digit secret numbers you have in mind. You, as a tester, are supposed to score just the number of correct digits in the correct position for each secret number. The learning objectives of this problem are to think about a vast search space and to design a practical and efficient search algorithm that can be run in polynomial time.

Philip Munie won this first competition with a program that passed all four test case files. The hardest case file contained 15-digit secret numbers. His average number of guesses for the 15-digit numbers was 49. He received a book as well as a $10 bookstore gift card.

The second-place winner was Shawn Ellison. Even though his program failed to solve the 15-digit case, his algorithm performed the best with 12-digit numbers, where his average number of guesses was 28, compared to 31 for Munie. Ellison also received a book as a prize.

Another competition was to design, implement, and train an Artificial Neural Network (ANN) that will enable a robot to follow a solid or dashed line. Students were given web cameras to be used as a vision sensor for the laptop robot. As a specific requirement, students were asked to use ES (1+1) with 1/5 rule algorithm to train the ANN.

Due to the limited class time in just one semester, students were not actually driving the robot, but displaying or animating the robot’s direction to go when it sees the line on the floor via the web camera. This assignment integrates many concepts learned in class such as evolutionary computation, ANN, adaptability, and computer vision.

Gary Givental passed all the different test cases perfectly. His training time was less than five seconds and he achieved near zero (0.1E-5) training error optimization. After the competition, he had a chance to share his ideas, know-how, and learning experience with his classmates. His prize was a $15 gift certificate to Best Buy.

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Lawrence Tech’s table tennis tournament had the strongest field of players in its 10-year history, but the championship was decided in a rematch between the Malhotra brothers. Two dozen other skilled players participated in the two-day tournament in December, but in the end they proved no match for the twins. Nishant Malhotra won the championship and avenged his loss in last year’s tournament by defeating brother Prashant in the finals, 21-18, 16-21 and 21-19. Gregory Pilch finished third in the tournament, and Che-Hao Kao was fourth. In the photo (L-R) are champion Nishant Malhotra; Sheetal Lata, a friend visiting from India; and runner-up Prashant Malhotra.
**Formula SAE Team Is Speeding Along**

By James Browne,  
Co-Team Leader  
Blue Devil SAE Formula Team

Formula SAE is about creating a reliable, high-performance car.  
For the 2007 team, the clock started ticking when the team members came together in the introduction to projects class in the 2006 spring semester. From that day on the 20-member team has worked to understand the history behind the evolution of the Lawrence Tech car.  
With this knowledge passed on from the 2006 team members, the 2007 team is ready to tackle designing, validating, and building the next generation Formula SAE racecar.  
With a lot design work completed over the summer, the building process started in the fall semester for the Blue Devil racing team. CAD assembly of the 2007 car was completed on Oct. 25. The frame was completely welded (minus the suspension mounts) on Nov. 29 -- the earliest in the past few years by a good month.  
During the break between the fall and spring semesters the Formula SAE team members worked hard to make the most of the time they had without being interrupted by classes. Many hours have been spent in the FabLab working on creating jigs for locating the suspension and on the CNC machine creating the beautifully machined rear uprights.  
The steering team is waiting to get parts back from machining to mount the steering rack to the chassis. The suspension team worked on welding the suspension mounts on to the frame. The body-and-seat team worked hard on finishing up the carbon-fiber seat mold. The power-train team had the engine singing away on the engine dyno, getting the baseline horse-power and torque numbers before modifications, and working on building the test intake manifold in order to optimize runner lengths.  
The team is working hard to have a rolling chassis by mid-February and a running car shortly after. Having a running car early allows many hours of testing, tuning, and working out the unforeseen bugs.  
As the co-team leader, I would like to thank the team members who have put so many hours of hard work to get us to this point. I have faith in our team and know we will keep pushing hard until the end. I have high confidence in our design, and I am excited for our prospects in the competition.  
The May 16 -20 competition at the Ford Proving Grounds in Romeo, Mich., is open to the public and we hope many people from Lawrence Tech will be there to support the team.

**Students Win Forgotten Harvest Challenge**

Civil engineering seniors (L-R) Julia Berry, Jessica Seres, Daniel Stickle, and Julie Vander Meer are members of the American Society of Civil Engineering (ASCE) Student Chapter that won the annual competition with the civil engineering faculty to collect more food for Forgotten Harvest during the holiday season. The friendly competition brought in 1,430 lbs., to bring Lawrence Tech’s five-year total to over 10,000 lbs. As the losing team, the faculty had to pay the pizza at the annual ASCE holiday party at Shield’s. It was the students’ third victory in five years.

**10 MOST WANTED**

Top 10 Degrees Most in Demand  
(Bachelor’s degree level)

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3. Computer science  
4. Electrical engineering  
5. Mechanical engineering  
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7. Marketing/marketing management  
8. Computer engineering  
9. Civil engineering  
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Hockey Team Faces Second-Half Challenge

The mighty Blue Devils Hockey team finished the first half of the season with six wins and eight losses and needs to improve its win-loss ratio in order to qualify for the playoffs.

The Blue Devils hit the holiday break ranked seventh in the 20-team North Region of the American College Hockey Association. They need to move up to the top four in the rankings in order to compete in the national tournament.

The Blue Devils have been working hard and gearing up for an even more successful second half of the season. They will be tested this spring semester as seven of their games are against teams in the league’s top ten.

Lawrence Tech was well represented at the Michigan College hockey Conference All-Star Game over the holiday break. Forwards on the winning East squad included seniors Kyle DeHenau and Andy Kruczynski and freshman John Archibald. Sophomore Dan Baker and freshman Adam Jakubowski were selected as defensemen, and senior goalie Dan McCarthy also made the all-star squad.

In the skill competition held in conjunction with the all-star game, Kruczynski had the fastest time in speed skating, Jakubowski tied for the hardest shot (86 m.p.h.) in the rapid-fire event, and McCarthy was the only goalie to stop five out of five shots in the breakaway event.

The Blue Devils have three home games left at the Southfield Sports Arena, located at 26000 Evergreen between Civic Center Drive and I-696. It’s behind the new Southfield library. The remaining home games are:

- Fri., Jan. 26, 10 p.m., Oakland University
- Sat., Jan. 27, 7:30 p.m., Calvin
- Sat., Feb. 10, 7:30 p.m., Ferris State

Tech Updates Begin on WJR

Lawrence Tech is promoting some of its most innovative educational programming with a series of public announcements broadcast on WJR-760 AM. Spots are broadcast during morning and afternoon drive times though mid-March.

You can hear these radio spots by going to www.ltu.edu/news/ and following the link to Audio Tech Update.

Flag Football Champions

The Ligers are the Lawrence Tech flag football champions for the fall semester. They defeated the Hucksters, the defending champions, in a close 21-14 game. Members of the new championship team are (L-R) Dan McCarthy, Nate Johnson, Ciro Spigno, Taylor Bohannon, Ralph O’Neal, Ricky Olsen, and Scott Boelema. Missing from the photo is Dan Wheatley.

Ridler Field House Fitness Program NEW Spring Class

Free to Students and Open to Faculty and Staff

POWER LUNCH

Where: Ridler Field House Gym
When: 12:30-1:00 PM, Mondays & Wednesdays
Starts: January 22, 2007
Instructor: Varvara Burden

Action-packed, 30-minute workout!!!

Participants will focus on toning and strengthening the lower body through lunges, squats and various combinations of other toning exercises. This class will also challenge deep abdominal and spinal muscles to promote back health and sculpt the body. Fundamentals of weight training will be incorporated utilizing dumbbells and elastic bands.

This class comes FREE with the Ridler Field House membership, which will be prorated for new faculty and staff participants. Participants can sign up using the payroll deduction form. Faculty and staff can become members for a discounted rate of $70 through 06/30/07, and take full advantage of the Field House facilities:

- Cardio room with elliptical and rowing machines, treadmills, etc.
- FREE fitness classes (kickboxing, yoga, boot camp, and more)
- Weight rooms
- Fitness track
- Volleyball and racquetball courts, and full-court basketball areas
- Ping-pong and Billiards tables
- Locker rooms and saunas