

# Reporter

The University of Michigan-Dearborn

February 11, 2008

## Good news for state in new SoM index tracking innovation

Innovative economic activity in Michigan increased 2.8 percent from the middle of 2006 to the middle of 2007, according to a new "innovation index" developed by scholars at the UM-Dearborn School of Management.

The researchers developed the index to track accelerations and decelerations in economic innovation in Michigan based on calculations of employment of "innovation workers," trends in venture capital, trademark registrations, incorporation activity, small business loans and gross job creation.

The "Innovation Index" is a new project of the school's Center for Innovation Research, or iLabs. The School of Management is planning to release the index quarterly to make it more useful for economic policy makers.



Redding

They released their first report, on data from the second quarter of 2007, last week. "While our index fell in the second quarter of 2007 from the beginning of the year, it was 2.8 percent higher than the second quarter of 2006," according to Lee Redding, associate professor of business economics and director of the Innovation Index.

On the positive side, federal data showed strong growth in the proportion of Michiganders working as scientists or engineers. "This indicator has improved for four consecutive quarters," Redding noted.

Venture capital also increased in the state for the strongest quarter since the end of 2004, according to the UM-Dearborn index. And trademarks registered by Michigan companies in the second quarter of 2007 were the highest since the first quarter of 2006.

On the minus side, there were declines in the number of new incorporations in Michigan, in the number of loans arranged by the Detroit office of the Small Business Administration, and in the number of new jobs created in the state during the quarter, according to the UM-Dearborn report.

"Innovation is key to economic growth, and the UM-Dearborn Innovation Index has been developed to evaluate innovation activity in the state," Redding said. This index is different than other similar projects because it will be more timely.

"Many innovation studies rely on data from IRS or the census, with delays of two years or more," Redding said. "We've identified a number of economic innovation variables that are available with relatively short delays, making it possible of us to calculate an innovation index for a given quarter five months after the end of the quarter."

Redding collaborated on the project with Anne-Louise Statt, a lecturer in business economics at UM-Dearborn, and undergraduate student Gary Hein.

## Launching a CAREER



Shengquan Wang

## CIS Prof. Shengquan Wang receives \$400,000 CAREER award from NSF

Shengquan Wang, assistant professor of computer and information science, has received one of most prestigious grants available from the National Science Foundation, through the Faculty Early Career Development program, also known as the CAREER program.

The grant, totaling \$400,000 over five years, was awarded for Wang's proposal titled "Timing-Aware Dynamic Thermal Management in High Performance Embedded Systems."

Wang's project is designed to address the problem of overheating in microprocessors while guaranteeing the timely processing required for high-performance real-time embedded applications such as avionics and flight control, space shuttle systems, vehicles, and instrumentation in medical and emergency facilities.

These high-performance applications present greatly increased computational requirements, while semiconductor manufacturing technology allows for smaller-sized devices.

"As a result, power density in microprocessors increases exponentially," Wang said. "Microprocessors are prone to overheating because of the increased power density, and it's generally assumed that more than 50 percent of electronic failures are temperature-related. Temperature is becoming one of the big concerns in system design."

At the same time, these high-performance applications demand timely processing or "increasingly stringent timing guarantees," Wang said.

"As high-performance embedded systems become more and more thermally constrained, the issue of how to provide timing guarantees under the thermal constraint must be addressed," he said. "Meeting both the timing constraint and the thermal constraint at the same time makes the issue more exciting

and challenging."

Wang plans to explore ways to achieve this goal by developing various timing-aware forms of "dynamic thermal management," or TA-DTM.

"The term TA-DTM refers to a range of possible hardware and software strategies that work dynamically to control a chip's operating speed and temperature," Wang said.

"This award to Professor Wang is a great indication of both the high quality of his work and his potential to provide leadership in the study of computer engineering for years to come," according to Subrata M. Sengupta, dean of the College of Engineering and Computer Science at UM-Dearborn. "It also is indication of the overall excellence of our engineering faculty and the value of their research at the national and international levels."

Wang joined the UM-Dearborn faculty as assistant professor of computer and information science in 2006, the same year he earned his Ph.D. in computer science from Texas A&M University. He also earned a master's degree at Texas A&M, and a master's degree in applied mathematics from Shanghai Jiao Tong University, in China. He earned his bachelor's degree at the Anhui Normal University in China in 1995.

"This program emphasizes the importance the National Science Foundation places on the early development of academic careers dedicated to stimulating the discovery process in which the excitement of research is enhanced by inspired teaching and enthusiastic learning," according to a statement from the NSF. "The CAREER program embodies the NSF's commitment to encourage faculty to practice, and academic institutions to value, integration of research and education."

## Gallery hosts 'Tribute to Electra Stamelos'

The Alfred Berkowitz Gallery will host an exhibition honoring the late artist and teacher Electra Stamelos called "A Tribute to Electra Stamelos" Feb. 22 through March 21.

A public reception will be held from 5 p.m. to 7:30 p.m. on Friday, Feb. 22 in the Gallery.

Stamelos, who died last year, was a longtime artist and teacher. In addition to being

the director of art acquisitions and exhibition at UM-Dearborn, she was a lecturer on fine and applied arts at the U-M Ann Arbor campus. A painter for 30 years, Stamelos' work has been exhibited in art shows throughout the United States and received numerous awards.

For more information, call 593-5058.



## Suzanne Bergeron receives Power Award

Suzanne Bergeron, associate professor of women's studies and social sciences and director of the Women's and Gender Studies Program, is one of three U-M faculty members who will be honored with the University's Sarah Goddard Power Award. The award will be presented by the Academic Women's Caucus at 4 p.m. Feb. 13 in the Hussey Room of the Michigan League on the Ann Arbor campus.

The winners of the 24th annual Sarah Goddard Power Awards all have worked throughout their careers to mentor women and girls through research, academic development and outreach efforts, according to the selection committee.



Bergeron

The award was established by the Academic Women's caucus in memory of Sarah Goddard Power, a former U-M Regent who was a strong advocate for women within the University. The award honors faculty members and senior administrative staff who have made significant contributions to the betterment of women at U-M and globally through distinguished leadership, scholarship or other activities related to their professions.

Since coming to the university in 1998, Bergeron has taken an active role in supporting feminist scholarship and gender equity efforts on the campus. She was the founding director of the Women in Learning and Leadership program, which combines courses in women's and gender studies with co-curricular and experiential opportunities in metropolitan Detroit to inspire activism and leadership for gender justice among its members. She also played a key role in initiating a major in Women's and Gender Studies at UM-Dearborn. Bergeron has served on many committees working for gender justice at UM-Dearborn such as the Agenda for Women, the Women's Resource Center planning committee and advisory board, and the Women on the Move program committee. She also is active in the campus's SOAR program, which provides low-income women with mentoring, scholarships, advising and financial aid. She received UM-Dearborn's Susan B. Anthony Award in 2002 and the Distinguished Teaching Award in 2004.

Bergeron's research is in the field of gender and international political economy. She holds an affiliate position at the Institute for Research on Women and Gender at U-M Ann Arbor where she has organized panels on gender, international security and sexuality. She serves on the editorial board of the *International Feminist Journal of Politics* and has published in *Signs*, *Feminist Economics*, *National Women's Studies Association Journal*, *Review of Radical Political Economy* and *Frontiers: Journal of Women's Studies*. Her work also appears in edited volumes such as *Feminist Economics and the World Bank*, *Development, Sexual Rights and Global Governance*, and *World (Bank) Literatures*. Her book *Fragments of Development: Nation, Gender and the Space of Modernity* was published by University of Michigan Press in 2004.

## Rep. Meisner visits class

State Rep. Andy Meisner will visit campus Feb. 18 to lecture as part of the Public Affairs Internship Program. His talk will take place at 12:45 p.m. in Room 2265 SSB, and is open to all members of the campus community.

## Learning the 'Computer Advantage'



Marianne Mara (left), a graduate student and research assistant at UM-Dearborn, explored different computer components with Cadette Girl Scouts Emily Vodo, Emma Kauffman and Kaitlyn Summer of Howell's Troop 785 during the campus's annual "Computer Advantage and Technology Saturday" on Feb. 2.

The free event is a Girl Scout-approved computer science program for girls in grades six through 12 to help with badge requirements on computers in everyday life, desktop publishing or exploring the Internet. UM-Dearborn's computing services honor society, Upsilon Pi Epsilon, coordinates the event each year.

An international honor society for the computing sciences, Upsilon Pi Epsilon aims to promote the computing and information disciplines and to encourage their contribution to the enhancement of knowledge. UPE's mission is to recognize academic excellence at both the undergraduate and graduate levels in the computing and information disciplines.

## 'On the Move' set for March 13

UM-Dearborn is gearing up to host its annual "On the Move: College is an Option!" event, a free one-day outreach program dedicated to introducing socially and economically disadvantaged women and men to post-secondary education.

"On the Move" will be held from 8 a.m. to 3:30 p.m. on Thursday, March 13 at the campus's Fairlane Center North Building. To register for the free event, call 583-6511 by Friday, March 7.

Beverly Alexander, manager of the Detroit Recreation Department, and Judge Annette Berry of the Third Circuit Court will speak at the event.

"The goal of this community outreach effort is to assist participants in realizing the importance of a college education in their efforts to become financially independent," according to Monica Porter, a member of the event's planning committee and director of UM-Dearborn's Women's Resource Center. "Many 'On the Move' participants are referred to this event by

domestic violence shelters, social service agencies, and community support groups, however the program is open to all."

Accompanied by volunteer mentors, participants attend a college course; hear a panel discussion of returning students who share their own college experiences; and receive information on how to apply for college, register for classes, and apply for financial aid and scholarships. Representatives from local colleges, universities, and service organizations will staff informational tables.

The event is sponsored by UM-Dearborn's Office of the Provost, UM-Dearborn's Commission for Women, the Business and Professional Women of Dearborn, and the American Association of University Women, Dearborn branch.

The "On the Move" program also is seeking volunteer mentors. For information on becoming a volunteer mentor, or for more information about the event, contact the Women's Resource Center at 583-6445.

## THE UNIVERSITY OF MICHIGAN-DEARBORN

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## Publication calendar

The next issue of the *Reporter* will be published on February 25. News items must be delivered to the Office of University Relations, 1040 Administration Building, at least 10 days prior to the publication date.

Terry Gallagher, editor

(tgallagh@umich.edu)

Jennifer Sroka, public relations representative

(jasroka@umd.umich.edu)

Janis Ward Ney, senior graphic designer

The University of Michigan-Dearborn, 4901 Evergreen, Dearborn, MI 48128-2406.

The University of Michigan-Dearborn does not necessarily endorse the views of speakers at events listed in the *Reporter*.

## News Brief

### Get 'career advice and a pizza slice' on Feb. 20

The Office of Career Services will host "Career Advice and a Pizza Slice" from 11 a.m. to noon on Wednesday, Feb. 20 in Room 2153 of the University Center. Students can stop by for lunch while receiving career advice such as deciding on a career or major, how to build a resume or impress employers at an interview.

Following the lunch event, the Office of Career Services will host an information session

about careers with the CIA from noon to 2 p.m. in Room 1225 of the University Center. Agency representatives will discuss a broad range of topics, including the agency's mission, potential career opportunities, its online application process, and a question-and-answer session. Representatives also will be accepting student resumes. Register for this event by e-mailing kcordon@umd.umich.edu.

## Sponsored Research News

### Grants received

**Pravansu Mohanty**, associate professor of mechanical engineering, received \$736,924 from the U.S. Department of the Navy for the second year of funding for his project "On-Demand Custom Body Implant and Prosthesis."

**Judith Flowers**, research associate in mathematics, received \$188,081 from the Saginaw Valley State University and the U.S. Department of Education as part of its second year of funding to support the Mathematics and Science Partnership: Fostering Instructional Leadership.

**Yi Zhang**, associate professor of mechanical engineering, received \$132,802 from Ford Motor Company's Ford-University of Michigan Innovation Alliance to support his study of control and calibration methodology for dual clutch transmissions.

**Mary Trepanier-Street**, professor in the

School of Education, received \$40,800 from the Michigan Department of Education for the 2007-08 Michigan School Readiness Program.

**Tariq Shamim**, associate professor of mechanical engineering, received \$40,000 from Ford Motor Company as part of the third year of funding for his project to develop a model to assist in integrating new emission technology for diesel engines.

**Michael Thomas**, director of the Partners Plus program in Enrollment Management and Student Life, received \$24,840 from the Michigan Department of Labor and Economic Growth as part of the second year of funding for the GEAR UP/ College Day Program at UM-Dearborn. The Partners Plus program at UM-Dearborn and Henry Ford Community College assists students who start their education at community colleges hoping to enter

degree programs at a four-year school.

**Mary Lynn Heininger**, director of corporate and foundation relations and special projects in the Office of Institutional Advancement, received \$5,000 from the National Endowment for the Humanities for conservation re-assessment and environmental monitoring at the Henry Ford Estate.

**Monica Porter**, director of the Women's Resource Center, received a \$5,000 grant from the Michigan Women's Foundation to support the "Having Our Potential Empowered (HOPE)" mentoring program.

**Jie Shen**, assistant professor of computer and information science, received \$7,500 from Office of the Vice President for Research (OVPR) for his project "Multiscale Damage Mechanisms of Engineering Materials."

## Dillard honored by Michigan Campus Compact



Randy Dillard (standing at left), student activities supervisor, meeting with volunteers on MLK Day

Randy Dillard, student activities supervisor at the UM-Dearborn, was honored by the Michigan Campus Compact for his contributions to service-learning and civic engagement at a ceremony at Central Michigan University last week.

Dillard received the 2007 MCC Faculty/Staff Community Service-Learning Award; he was nominated by Troy Murphy, associate professor of communications.

"This is the highest annual award that MCC bestows on faculty and staff in the state of Michigan," according to a statement from the MCC.

"I'm really proud of this award, what it stands for and where the campus is going in terms of civic engagement," Dillard said.

Since joining the staff of the Student Activities Office in 2004, Dillard has been responsible for initiating and coordinating a number of service programs on campus that have become annual events which are popular among students and the entire campus community, including the Gandhi Day of Service, Make a Difference Day, the National Family Volunteer Day, Metro Detroit Youth Day and the Service Plunge, a two-day immersion program for incoming freshmen and transfer students.

Dillard also coordinates the campus's annual Martin Luther King Jr. Community

Service Day, which celebrated its biggest event ever this year in terms of volunteer numbers. Next month, Dillard will lead campus volunteers during the United Way's Alternative Spring Break (ASB) program, which engages students in volunteer service during spring break. For the past two years, the program has focused on rebuilding communities recovering from hurricanes Katrina, Ivan and Rita in the Gulf Coast. This year, the city of Detroit has been added as a host community for the ASB program as part of a pilot project to connect local United Ways with students at local universities.

"Randy has shown through his actions that service to one's community is of much importance to a brighter future," according

to senior Adam Harris, an avid volunteer with the campus's civic engagement projects. "In building partnerships with community agencies such as United Way for Southeastern Michigan, Habitat for Humanity Detroit and Gleaners Community Food Bank, Randy demonstrates that with a collaborative effort, we can envision a better tomorrow through our service in the community.

"On a personal note, Randy has been a coach, mentor and role model to me," Harris said. "I can say that metropolitan Detroit is a better place because he exists. I am thankful for his values to believe in an area that at times looks deeply in despair. He is a true servant of our community."

In addition to his campus contributions, Dillard is involved in the YMCA of Metropolitan Detroit and the United Way for Southeastern Michigan's Youth Engagement Taskforce. His other honors include the YMCA of Metropolitan Detroit's 2007-2008 Minority Achievers Award and the 2006 Michigan College Personnel Association's Les Carlin Professional Development Award.

Each year, the Michigan Campus Compact gives the Faculty/Staff Community Service-Learning Award to one person from each campus who engages or influences students to be involved in community service or service-learning through modeling, influence, or instruction.

Michigan Campus Compact is a coalition of college and university presidents who are committed to fulfilling the public purposes of higher education by promoting the education and commitment of Michigan college students to be civically engaged citizens, through creating and expanding academic, co-curricular and campus-wide opportunities for community service, service-learning and civic engagement.

### Mission

The University of Michigan-Dearborn is an interactive, student-centered institution committed to excellence in teaching and learning.

We offer undergraduate, graduate, and professional education to a diverse, highly motivated, and talented student body. Our programs are responsive to the changing needs of society; relevant to the goals of our students and community partners; rich in opportunities for independent and collaborative study, research, and practical application; and reflective of the traditions of excellence, innovation, and leadership that distinguish the University of Michigan.

We accomplish this mission by:

- Providing a strong foundation in the liberal arts and sciences;
- Providing the knowledge and skills essential for career and personal success;
- Integrating teaching, research and service in ways that enhance the learning experience;
- Promoting internships and cooperative education;
- Providing a dynamic environment where innovation, openness, and creativity are fostered;
- Using advanced technologies to meet changing educational needs and establish links with the global community; and
- Forging partnerships with business, industry, educational institutions, and government agencies.

We strive to be the institution of choice in southeastern Michigan for individuals and organizations that value accessibility, flexibility, affordability, diversity, and preeminence in education.

## News Brief

### Helping students get the 'Transfer Advantage'

The Office of Admissions and Orientation will host "Transfer Advantage," an event geared toward transfer students on Tuesday, Feb. 26 from 6 p.m. to 8:30 p.m. in Kochoff Hall. Students can register for the session by calling 593-5100 or by visiting the Transfer Advantage Web site, <http://www.umd.umich.edu/transferadv/>.

Participants will hear presentations from

representatives of the admissions and financial aid offices, receive transfer tips from current UM-Dearborn students, take a campus tour and speak with an admissions counselor and apply for admission.

For more information about the Transfer Advantage event, call the Office of Admissions and Orientation at 593-5100.



## 'Go Red for Women' raises \$1,300 for heart disease

This year's "Go Red for Women's Heart Disease" campaign and Active U 2008 kick-off was a success, raising more than \$1,300 for the American Heart Association. Preparations got

under way early on when the event's planning committee encouraged campus offices to "paint the campus red" and decorate work spaces. In the top photo, Helene Boldarini (right), human

resources assistant, and Karyn Koos, human resources specialist, embellished the Office of Human Resources with red and pink paper hearts strung onto ribbon, which they hung from the ceiling.

Postponed due to an official university "snow day," the annual "Go Red for Women's Heart Disease" luncheon and fashion show were quickly rescheduled for Monday, Feb. 4. More than 80 faculty, staff and students participated in the event, including Lia Simpson of the Child Development Center who received more than \$780 as winner of the event's 50/50 raffle drawing. In the photo below, Jody Pear, administrative assistant in facilities management, modeled a red, black and white outfit provided by Macy's during the fashion show, accompanied by Atau Usman (left), human resources lead associate, and Christopher Tremblay, director of admissions and orientation. In addition, Oakwood Healthcare medical staff made informational presentations and offered free health screenings to people like student Jialin Jiao (bottom photo), who had his blood pressure checked by Oakwood nurse Christine Miles.



### Kudos

**Paul Zitzewitz**, professor of physics in the Department of Natural Sciences, has been elected treasurer of the American Association of Physics Teachers. Founded in 1931, the AAPT has more than 11,000 members at universities, two-year colleges, and high schools. It is the nation's premier organization for physics education. Zitzewitz's term started last month and runs through January 2010.



Zitzewitz

*(If you know of accomplishments by UM-Dearborn faculty and staff members that should be included in this column, please send information to [tgallagh@umich.edu](mailto:tgallagh@umich.edu).)*

### News Brief

#### Gay activist to speak on 'impact of hate' Feb. 11

Shane Windmeyer, an author on gay issues and a leader in gay and lesbian civil rights, will visit UM-Dearborn on Monday, Feb. 11 to talk about "The Impact of Hate."

Windmeyer will hold two discussion sessions. The first, for faculty and staff, will be held from 10 a.m. to 11:30 a.m. in Kochoff Hall. A second session, geared toward students, will take place from 3 p.m. to 4:30 p.m. in Kochoff Hall.

The discussions are designed to create a foundation of understanding surrounding hate

crimes, explore individuals' awareness of prejudice and motivate individuals to make a difference in the larger campus community.

Windmeyer is co-founder and executive director of Campus Pride, the only national organization for student leaders and campus organizations working to create a safer college environment for lesbian, gay, bisexual and transgendered students.

Windmeyer's visit is sponsored by the Student Activities Office. For more information, call 593-5390.