

# Reporter

The University of Michigan-Dearborn

June 18, 2007

## Willow Run Airport supports 2,000 jobs, according to study

Freight and passenger traffic at Willow Run Airport represented \$200 million in economic impact and more than 2,000 jobs in Michigan in 2006, according to a study by researchers at the School of Management.

The report was based on a study done by faculty members at iLABS, the School of Management's Center for Innovation Research. Led by Lee Redding, assistant professor of business economics, the study estimated the economic impact of the airport on Wayne County and on the state as a whole, measured in terms of revenues, incomes and jobs.

Within Wayne County, the airport's economic impact was more than \$100 million, generating more than 700 jobs and earnings of \$22 million.

Redding emphasized that the airport's impact is more than just the jobs it supports.

"Willow Run's true potential for supporting Michigan's future lies in the infrastructure it represents rather than simply the people employed directly at the airport," he said.

"A cargo airport like Willow Run is important to the economic revitalization of Michigan because it provides the necessary infrastructure for local businesses to expand," said Redding. "Air cargo ships high value products, and those air cargo products are what America is good at producing and exporting. The airport represents an important piece of the economic infrastructure of Michigan with the potential to have an even greater impact in the future."

In 2002, the federal Bureau of Transportation Statistics estimated that shipments by air were valued at approximately \$77,800 per ton in 2000 dollars, more than 120 times the comparable figure for truck transportation. Using this estimate and the estimated 2006 cargo volume, Willow Run is currently handling more than \$4 billion worth of cargo annually, according to the UM-Dearborn study.

Expansion of the airport's facilities would generate additional economic impact from construction expenditures immediately, and would increase the value of the infrastructure at Willow Run in the long run. This expansion can contribute to the development of proposed "aerotropolis," an area of economic development surrounding Willow Run and Detroit Metropolitan Wayne County Airport.

"While our report quantifies the measurable direct effect of Willow Run Airport, the airport's most crucial value to the region lies in its ability to attract future businesses that produce high-value products that must be shipped by air," Redding said. "Air cargo represents a growing portion of the freight transportation industry. Further, goods transported by air are disproportionately high-value items and ones in which American business excels."

Willow Run is best known as a cargo airport, but more than 210,000 passengers arrived at the airport in 2006 on charter, corporate and private aircraft. The UM-Dearborn study calculated the aggregate economic impact of those passengers, in addition to the value of freight shipments.

A substantial fraction of Willow Run's passenger traffic is associated with Pfizer, so the number of passengers and their economic impact is likely to drop in the coming years as Pfizer closes its Ann Arbor-area facility, Redding notes. "Such challenges reinforce the necessity of having the transportation infrastructure necessary to create and attract profitable business opportunities," he said.

## CEO alum cuts ribbon



## BorgWarner Auditorium dedicated

The College of Engineering and Computer Science dedicated its newest state-of-the-art audio/visual facility—the Borg Warner Auditorium—with a ceremony during the campus's annual Technology Day event on June 6.

Timothy Manganello, chairman and CEO of Borg Warner Inc. (center), was on hand to join CECS Dean Subrata Sengupta (left) and Provost Susan Martin in a ribbon-cutting ceremony for the 220-seat auditorium, housed in the new Institute for Advanced Vehicle Systems building.

"Borg Warner is pleased to celebrate the opening of this facility, which we believe will breed creativity, innovation and collaboration," Manganello said at the dedication. "Students with these skills will be in high demand in the automotive industry in the future, and we're proud to be associated with UM-Dearborn."

## Seminar on Detroit's religious diversity

"Worldviews," a week-long seminar this week based at UM-Dearborn, has proved attractive to a large number of community members "who have an interest in learning about the religious diversity of our metropolitan region and meeting Detroiters of different faiths," according to anthropology Prof. Claude Jacobs.

"We began the seminar in the aftermath of the events of Sept. 11, 2001, when the Episcopal Church Diocese of Michigan, Christ Episcopal Church Dearborn, the Michigan Roundtable for Diversity and Inclusion and UM-Dearborn joined together to acquaint people with the religious diversity of metropolitan Detroit," Jacobs said.

Since its founding, the course has attracted nearly 160 people from a wide variety of cultural, racial, ethnic and socioeconomic backgrounds. Participants have included clergy, laity, community leaders, teachers, and

Manganello earned his master's degree in engineering from CECS in 1975, after completing a bachelor's degree in engineering at the Ann Arbor campus.

The IAVS building, which was designed by the firm of Lord, Aeck & Sargent and completed last year, recently received an honor award from the Huron Valley chapter of the American Institute of Architects.

Technology Day, an annual research review conducted by CECS faculty members in collaboration with industry partners, also featured a panel discussion with William J. Coughlin III, president and CEO of Ford Global Technologies, and Walter Bryzik, chief scientist at U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) on "Technologies for Sustaining Michigan's Economy."

seminary and university students.

"The hope was that the seminar would provide opportunities to build community through awareness and dialogue," according to Jacobs, director of the Center for the Study of Religion and Society.

Lectures and discussions at the UM-Dearborn campus and Christ Episcopal Church Dearborn are combined with visits to a variety of religious centers in the metropolitan area including Buddhist, Christian, Hindu, Jain, Jewish, Muslim, Native American and Sikh.

The series is facilitated by Lucinda Mosher, who holds a doctoral degree from the General Theological Seminary. Mosher is the author of *Faith in the Neighborhood*, a series of books that explore what it means to live and worship among the many faiths unique to America's neighborhoods.



## Pie contest, Model T at annual picnic

The annual Chancellor's Picnic, hosted this year by the Office of Business Affairs, will be held from 11:30 a.m. to 2 p.m. Friday, June 22 in the AB courtyard.

The theme this year is an old fashioned picnic, with a menu of grilled chicken, burgers, veggie burgers, all-beef hot dogs, corn on the cob, potato salad, tossed garden salad, watermelon wedges, brownies and ice cream.

Activities this year include a display of a working Model T from 1916, presented by the Henry Ford Estate and driven by Edward Hebb, who will be available to answer questions concerning the technology of the car and the history of its production.

Plenty of games will be available, as well, including checkers, marbles, pick-up sticks, volleyball, bocce ball, croquet, badminton and horseshoes.

In addition, this year's activities will include a fruit pie bake-off contest. First-, second- and third-place ribbons will be given to the pies judged to be the best by a panel of judges based on overall appearance, crust, filling consistency, doneness, flavor and creativity.

To enter the contest, mail a copy of your recipe on a 3" x 5" card to Terry Ianni, business affairs, 1090 AB by June 19 and bring your home-baked pie to the Office of Business Affairs between 8 a.m. and 10 a.m. on June 22. Judging will take place at 11:45 a.m. Only one entry per person.

For more information, visit [http://www.umd.umich.edu/chancellors\\_picnic](http://www.umd.umich.edu/chancellors_picnic).

## Detroit Tigers game July 3

The Student Activities Office and Golden Key International Honour Society will host a Detroit Tigers baseball event at Comerica Park for the campus community on Tuesday, July 3.

The Detroit Tigers will play the Cleveland Indians at 7:05 p.m. that day. Faculty, staff and students have the opportunity to purchase upper box game tickets in section 326 for \$18 each. Early ticket purchasers can take advantage of bus transportation from UM-Dearborn to Comerica Park.

To purchase tickets, contact Randy Dillard, student activities supervisor, at 593-5390 or [rdillard@umd.umich.edu](mailto:rdillard@umd.umich.edu).

## 'Transitions' workshop

High school sophomores can jump-start their college search by attending "Transitions: A College Prep Workshop" from 6 p.m. to 9 p.m. Tuesday, June 26 at the Fairlane Center North Building.

The free workshop, sponsored by the Office of Admissions and Orientation, will provide students and parents with interactive sessions about how to be successful in college, finding the right college major and career, securing financial aid and scholarships, and writing a college application essay.

To register, visit [www.umd.umich.edu/transitions/](http://www.umd.umich.edu/transitions/). For more information, contact David M. Stephens at [dmstephe@umd.umich.edu](mailto:dmstephe@umd.umich.edu).

## Michigan art at gallery

The Alfred Berkowitz Gallery is showcasing its 2007 Open Competition exhibition now through July 12. The exhibition, which is free and open to the public, features recent works by artists who live and work in Michigan.

"A wide variety of two- and three-dimensional pieces, rendered in various materials and techniques, will be shown in this annual event that brings the work of emerging artists as well as that of more established artists to our campus community and to the audiences we serve," according to Kenneth Gross, director of the Art Museum Project.

## Geology class visits Iceland



Jacob Napieralski (back row left, with baseball cap), assistant professor of geology, posed with a group of 14 UM-Dearborn students recently atop Eldfell, a volcano on the island of Heimaey, 15 miles south of Iceland.

The group journeyed to southern Iceland this spring as part of a field geology course taught by Napieralski. The course, offered annually during the first week of May, included the study of volcanology and seismology, plate tectonics, geomorphology and surface processes, geothermal activity and utilization, glaciology and glacial landscapes, and mineralogy and petrology. While there, the class also met with Gretar Ivarsson from Reykjavik Energy, who led a hike through geothermal fields and provided an informative tour of the power plant.

"Every year, GEOL 377/577 treks out somewhere," Napieralski said. "This was the first time we traveled internationally for the course."

"We visited the Westman Islands for a day, off the southern coast of Iceland, to visit several volcanoes," he said. "Eldfell is a new volcano, erupted and formed in 1973. In the photo, you can see mainland Iceland in the background, and off to the right, you can see smoke coming up from sulfuric vents (still a smoking volcano), and the extensive lava flow is behind us which has enlarged the small island by 25 percent."

While in Iceland, the students visited three ice caps, four glaciers, countless volcanoes, geothermal fields, rifting zones, waterfalls, geysers, sandurs and they even spotted a few Atlantic puffins.

## Campus runs for a cause



Nearly 60 adults and 20 children turned out to run or walk a route set around campus during the Women's Resource Center's inaugural "Run/Walk for a Cause" on June 1.

The event raised more than \$2,600 for the Child Development Center. The Women's Resource Center plans to host the event annually, with a different cause benefiting from the proceeds each year.

In addition to the 3K tot walk and 5K runs/walks, representatives from Oakwood Hospital were on campus to administer health screenings for faculty, staff and students, an emergency medical technician provided informational tours of an ambulance, and children participated in various activities like face painting.

"A great time was had by all," according to Shareia Carter, program coordinator for the Women's Resource Center. "We look forward to a bigger and better 'Run/Walk for a Cause' next year."

## THE UNIVERSITY OF MICHIGAN-DEARBORN

### Senior Officers

Daniel Little, Ph.D., *Chancellor*; Susan Martin, Ph.D., *Provost & Vice Chancellor for Academic Affairs*; Edward Bagale, M.B.A., *Vice Chancellor for Government Relations*; Thomas Baird, M.Ed., *Vice Chancellor for Institutional Advancement*; Robert G. Behrens, M.A., *Vice Chancellor for Business Affairs*; Stanley E. Henderson, M.A., *Vice Chancellor for Enrollment Management and Student Life*

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### Nondiscrimination Policy Statement

The University of Michigan, as an equal opportunity/affirmative action employer, complies with all applicable federal and state laws regarding nondiscrimination and affirmative action, including Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. The University of Michigan is committed to a policy of nondiscrimination and equal opportunity for all persons regardless of race, sex\*, color, religion, creed, national origin or ancestry, age, marital status, sexual orientation, disability, or Vietnam-era veteran status in employment, educational programs and activities, and admissions. Inquiries or complaints may be addressed to the Senior Director for Institutional Equity and Title IX/Section 504 Coordinator, Office for Institutional Equity, 2072 Administrative Services Building, Ann Arbor, Michigan 48109-1432, 734-763-0235, TTY 734-647-1388. For other University of Michigan information call 734-764-1817.

\*Includes discrimination based on gender identity and gender expression.

## Publication calendar

The next issue of the *Reporter* will be published on July 16. 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](mailto:tgallagh@umich.edu))  
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The University of Michigan-Dearborn, 4901 Evergreen, Dearborn, MI 48128-1491.

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

## Sponsored Research News

### IRB passes University audit

UM-Dearborn's human subjects committee, or Institutional Review Board (IRB), was recently audited by the University Audits office. Auditors examined IRB records, reviewed IRB-Dearborn's standard operating procedures, evaluated financial and administrative support for the IRB, and interviewed IRB administrative staff and an IRB co-chair. The audit examined practices and procedures of the IRB as well as compliance with federal regulations and University policy.

The primary mission of the IRB is to protect the rights and welfare of human research subjects participating in research projects conducted by Dearborn faculty, students, and staff. Between March 2006 and February 2007, the IRB-Dearborn considered 42 protocols: two required approval by the full board, 26 received expedited review and approval by a co-chair, 12 were determined to be exempt, and two were non-regulated. All applications are submitted via an online, Web-based program known as eResearch.

Auditors reported that "IRB-Dearborn internal controls were sufficient to meet their objective of protecting the rights and welfare of human subjects involved in research under [its] purview." The final audit report was distributed to Chancellor Daniel Little, Provost Susan Martin, President Mary Sue Coleman, Vice President for Research Stephen Forrest, and other University officials with an interest in protecting human research subjects.

A copy of the audit report may be obtained by calling 593-5468.

### Awards received

**Paul Richardson**, associate professor of electrical and computer engineering, received a total of \$303,499 from the U.S. Army TACOM. Funding in the amount of \$30,182 will support continuation of the LAVC2 Upgrade Support project. Subcontracts were issued for the following: \$200,000 to develop two robotic kits for Medium Tactical Vehicles and \$73,316 to provide subject matter support for remotely operated construction equipment maneuver support. He also received a Small Business Innovation Research subcontract of \$15,000 from Global Technologies Connection, Inc. for his project

UGV Dynamic Mobility Updates Using Real Time Prognostic and Diagnostic Information.

**Kent Murray**, professor of natural sciences, received \$228,532 as year one funding of a 5-year, \$1 million National Science Foundation grant. This award will help fund the establishment of a long-term, self-sustaining institute for research and education. The goal of the institute is to extend research and learning opportunities in the geosciences to Detroit students and teachers.

**Yi Lu Murphey**, professor of electrical and computer engineering, was awarded \$148,164 from the U.S. Army TACOM. She will work to develop an intelligent control system for electric power management in vehicles.

**Chris Mi**, associate professor of electrical and computer engineering, received \$139,548 from the U.S. Army TACOM to develop an intelligent control system for electric power management in vehicles.

**Hong-Tae Kang**, assistant professor of mechanical engineering, received \$79,967 from the U.S. Automotive Materials Partnership. Kang will be conducting fatigue testing of welded joints as well as studying the failure modes of welded joints subjected to various load levels and load ratios.

**Subrata Sengupta**, dean of the College of Engineering and Computer Science, received \$70,000 from Ford Motor Company to continue the Special American Business Internship Program.

**Seth Hirshorn**, associate professor of public administration in the School of Education, received \$68,770 from the YES Foundation to continue a project to provide academic enrichment to outstanding eighth graders in Detroit.

**Qiang Zhu**, professor of computer and information science, received \$20,000 from International Business Machines, Canada, Ltd. He will be conducting research on data stream processing utilizing the framework provided by conventional database management systems.

**Taehyun Shim**, associate professor of mechanical engineering, received \$15,000 from General Dynamics Land Systems to continue his project "Research Support for the aGMV Hybrid Control Refinement IRAD."

**Brahim Medjahed**, assistant professor of computer and information science, received

\$10,000 from the Office of Vice President for Research for his project titled "Chamaeleo: Self-Managing Changes in Dynamic Service-Oriented Applications."

### Campus grant awards

At its winter meeting, the Campus Grants Committee (Faculty Senate Research Support Board) made awards in several categories.

Faculty Research Initiation and Seed Grants provide up to \$6,000 to full-time faculty for research and other scholarly activities. These grants are intended to provide funding to projects which will lead to future external grant support. Awards were made to:

**Krisanu Bandyopadhyay**, assistant professor of chemistry, for his project "Toxic Potential of Metal and Semiconductor Nanoparticles on Yeast Cells."

**James Gruber**, professor of behavioral sciences, received \$4,935 for his project "Trouble at School: the Health and Academic Outcomes of Bullying and Sexual Harassment in Middle and High Schools."

**Brian McKenna**, assistant professor of behavioral sciences, received \$6,000 for his project "The Melanoma Dangers of Sunscreen."

**German Reyes-Villanueva**, assistant professor of mechanical engineering, received \$6,000 for the project "Thermal Spray of Functionally Graded Polymers for Net-Shape Lightweight Multi-Functional Hybrid Systems: Processing and Characterization."

**Taehyun Shim**, associate professor of mechanical engineering, received \$6,000 for his project "Development of a Vehicle Inertia Parameter Estimator of Active Vehicle Safety."

Faculty Research Support and Maintenance Grants provide up to \$6,000 for significant projects in fields where there are few opportunities for external funding. An award was made to:

**Georgina Hickey**, associate professor of social science, received \$6,000 for her project "Breaking the Code: Women's Challenges to Urban Gender Segregation in the 20th Century United States."

CASL Senior Faculty Scholarship Grants provide up to \$3,000 for a CASL faculty member who is committed to submitting a major external grant proposal, completing a journal article manuscript, or making substantial progress on a book manuscript under contract. An award was made to:

**Bruce Pietrykowski**, professor of social sciences, received \$3,000 for his project "The Political Economy of Consumer Behavior: Contesting Consumption."

The \$2,500 Undergraduate Research Fellowship is awarded to students who have excellent academic records and who are invited to work on an independent research project under the direction of a UM-Dearborn faculty member. Awards were made to:

Holly Sobczak, (faculty advisor **Krisanu Bandyopadhyay**) received \$2,500 for the project "Optimization of DNA Hybridization Attached to the Vertically Aligned Carbon Nanotube."

Thomas Knisley, (faculty advisor **Daniel Lawson**) received \$2,500 for the project "Theoretical Study of the Effect of d-Orbital Variation and Metal Ligands on the Aromaticity of Metal-lacyclobutadienes."

Matt Morelli, (faculty advisor **P.K. Mallick**) received \$2,500 for the project "Crush Resistance of Composite Tubes."

Sahar Fardous, (faculty advisor **David Susko**) received \$2,500 for the project "Variable Patterns of Seed Development as Bioindicators of Plant Species Invasiveness."

## 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.

## Rescuing the Rouge



Students (from left) Kawthar Ali, Michael Crowley and Alexandra Tungol helped to revitalize the Natural Area's Lakeside Trail on June 2 as part of the campus's Rouge River Rescue event. Volunteers also weeded garlic mustard and buckthorn from the Henry Ford Estate gardens and trimmed trees and shrubs along other campus trails.

"I hope this event will inspire and motivate the UM-Dearborn student body to continue this tradition of stewardship," said student Megan Kincaid, who works at Friends of the Rouge, located in Room 220, Academic Support Center.



## Accident inspires award-winning project

A tragic weight-lifting accident inspired a team of engineering students at UM-Dearborn to create an award-winning safety device for spotter-free weightlifters.

students Amy Crandall, Charles Kovel, Glenn MacRae and Kristyna Salamey—grew out of a real-life weight-lifting tragedy.

“One of our group members knew

The “AutoSpot” project called on the students to incorporate every subject they’ve ever learned since freshman year, “except for chemistry, maybe,” according to MacRae, who presented the project on behalf of his team at the campus’s annual Technology Day showcase on June 6.

“It was a challenge,” he added.

The students set out to offer the same safety advantages as guided machines currently on the market, but without restricting the weightlifter’s free range of motion and balance.

The team also hoped to make a product that would fit the average home weight bench at an affordable price, along with additional safety and assist features not found in traditional lifting machines.

“There are so many different ways to approach the design of a project like this,” said MacRae, who graduated in April. “The biggest challenge was deciding on what design to use and go with it.”

The team decided on a counterweight design incorporating a block and tackle system, both for its simplicity and its ability to utilize unused weights while bench-pressing. Other systems implemented in the design included a base structure composed of Unistrut members; a dynamically guided lifting arm; a counterweight pin release using mechanical advantage; and a microprocessor designed to activate the pin release. Student Vimlesh Shukla helped the team with the microprocessor.

Fifteen weeks later, the group had a working AutoSpot model and wowed judges at the senior design competition.

“I felt this project was going to be the winner,” according to Elsayed Orady, professor of industrial and manufacturing systems engineering. “This is not only because of the humanitarian idea for saving lives, but also because of the ability of mechanical engineering students to carry out such a complex project that needs the basic knowledge of electrical engineering.”



CECS Dean Subrata Sengupta (left) discussed the “AutoSpot” model with recent graduate Glenn MacRae, who was representing his senior design project team, at Technology Day on June 6.

Four mechanical engineering students, under the direction of faculty advisor Prof. Taehyun Shim, have designed a bench-press safety device that assists free-weight lifters when a spotter is unavailable or is incapable of lifting the weights off the chest in the case of an emergency. The project took top honors in the College of Engineering and Computer Science’s annual senior design competition this year.

The “AutoSpot” project—created by

someone who died doing this,” according to MacRae. “So we said, ‘Let’s do something to help other people who free weight alone.’”

Shim said he wasn’t surprised the group won the competition, because the team had terrific chemistry and supported each other throughout the project.

“They are a very dedicated group,” Shim said. “They all worked very hard. I’m so proud of them.”

## Kudos



Craves

**Julie Craves**, supervisor of avian research at the Rouge River Bird Observatory in the Environmental Interpretive Center, has been appointed an editorial assistant for the *Journal of Caribbean Ornithology*, the publication of the Society for the Conservation and Study of Caribbean Birds. Craves, who has traveled to Cuba to study migratory birds, was editor of *Michigan Birds and Natural History* from 1996 to 2002.

Admissions counselor **Farhan Latif** received the Distinguished Alumni Service Award from Henry Ford Community College at the college’s graduation ceremony in May. Latif earned his associate’s degree from HFCC in 2003, and his bachelor’s degree from UM-Dearborn in 2005. Latif, who was vice president of the student government at HFCC and president of SG on the UM-Dearborn campus, now serves as the admissions liaison to HFCC.

**Lora Lempert**, professor of behavioral sciences, has been elected to the editorial and pub-

lication committee of the Society for the Study of Social Problems. The group is the second largest organization of sociologists and it publishes *Social Problems*, one of the top five journals in sociology.



Mi

innovations in reducing the environmental impact caused by the transportation industry. Mi’s project, “An Innovative Education and Training Program in Electric, Hybrid and Fuel Cell Vehicles,” won in the competition’s “education, training and public awareness” category.

**Bruce Pietrykowski**, professor of economics and director of the Center for the Study of Automotive Heritage, gave a presentation titled “Toyota’s Prius—Exploring User Culture and Technology” at the Changing Automobility Conference held at Deutsches Haus at New York University in April.

**Deborah Smith Pollard**, associate professor of humanities, is the author of a chapter in *Black Women and Music: More than the Blues*, published in April by the University of Illinois Press. Pollard’s chapter is titled: “That Text, That Timbre: Introducing Gospel Announcer Edna Tatum.” “This collection is the first interdisciplinary volume to address black women’s negotiation of race and gender in African American music,” according to the publisher’s Web site. “Contributors explore ways African American women musicians of the twentieth century have negotiated feminisms, engaged in social activism, and worked within—or sometimes independent of—a male-dominated music industry.”



Pollard

(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).)